

FORT LEWIS

Agricultural and Mechanical College

DURANGO, COLORADO

Catalog - 1958 - 1960

Series 8, Number 1

PHILOSOPHY

The total college program is built around the philosophy that the primary function of Fort Lewis A & M College is to serve the general educational, cultural, pre-professional, and vocational needs of the students in the geographic area which the college serves.

PURPOSE

The courses offered enable the students to qualify themselves for further study in senior colleges, universities, and professional schools. Courses are planned to insure that students have an acquaintance with the major areas of knowledge and experience essential for effective citizenship in a democratic society.

If students so choose, they may select work of a terminal nature designed to give them a well-rounded program of general education as well as work in their chosen field of endeavor.

ADULT EDUCATION 1958-59

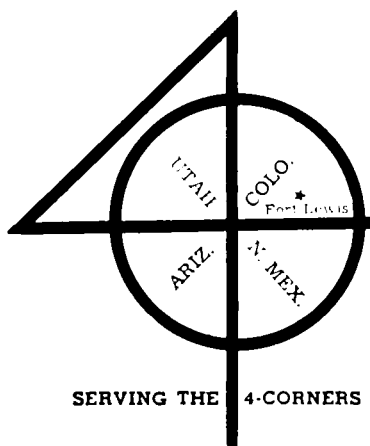
March 2-23, 1959

Ed-050 Elementary School Science No credit
Source materials for the teacher, bibliographies, classroom
requirements, course contents, and latest methods in the teaching
of elementary school science.

Fort Lewis Agricultural & Mechanical College *Catalog*

1958 - 1960

DURANGO - COLORADO



MEMBERSHIP IN EDUCATIONAL
ASSOCIATIONS

National Commission on Accrediting

American Association of Junior Colleges

American Association of Collegiate Registrars
and Admissions Officers

Colorado-Wyoming Association of Collegiate
Registrars and Admissions Officers

**FULLY ACCREDITED BY NORTH CENTRAL
ASSOCIATION OF COLLEGES & SECONDARY SCHOOLS**

Series 8, No. 14

COLLEGE CALENDAR FOR 1958 - 1959**1958**

Sept. 7, Sunday	Dormitory Room Assignments
Sept. 8, Monday	Freshman Placement Tests-Orientation
Sept. 9, Tuesday	Freshman Placement Tests-Orientation
Sept. 10, Wednesday	Counselling for all students
Sept. 11, Thursday	Registration for all students
Sept. 12, Friday	Classes begin at 8:00 A. M.
Sept. 18, Thursday	Last day for refund on withdrawal from College
Sept. 25, Thursday	Registration closes and last day for schedule changes. Last day for dropping subject without prejudice.
Oct. 2, Thursday	Last day for one-half refund
Oct. 2, Thursday	Honors Convocation
Oct. 23-24, Thurs. and Fri.	C. E. A. Convention
Oct. 29, Wednesday	Last day for First-Semester Freshmen to drop subjects without prejudice.
Nov. 1, Saturday	Homecoming. Trinidad at Fort Lewis
Nov. 10, Monday	Mid-Semester grades due in Registrar's Office at 8:00 A. M.
Nov. 26, Wednesday	Thanksgiving holidays begin at 8:00 A. M.
Dec. 1, Monday	Classes reconvene at 8:00 A. M.
Dec. 19, Friday	Christmas holidays begin at 5:00 P. M.

1959

Jan. 5, 1959, Monday	Classes reconvene at 8:00 A. M.
Jan 26, 27, 28, Mon.-Wed.	Final examinations
Feb. 2, Monday	Registration for all students
Feb. 3, Tuesday	Classes begin at 8:00 A. M.
Feb. 9, Monday	Last day for refund on withdrawal from College.
Feb. 16, Monday	Registration closes and last day for schedule changes. Last day for dropping courses without penalty.
Feb. 23, Monday	Last day for one-half refund
March 27, Friday	Faster vacation begins at 8:00 A. M. Mid-Semester grades due in Registrar's Office.
March 30, Monday	Classes reconvene at 8:00 A. M.
May 24, Sunday	Baccalaureate Service
May 25, 26, 27, Mon.-Wed.	Final Examinations
May 29, Friday	Commencement

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State Board of Agriculture*

	Address	Term Expires
George McClave	McClave	1959
Warren Monfort	Greeley	1959
Walter G. Lehrer	Denver	1961
Chester H. Enstrom	Grand Junction	1961
John H. Brownell	Hooper	1963
Walter B. Cooper	Fort Collins	1963
Amer Lehman	Idalia	1964
David E. McGraw	Durango	1964

Governor Stephen L. R. McNichols)
) (Ex-Officio Members)
 W. E. Morgan)

OFFICERS*

Walter G. Lehrer President
 Walter B. Cooper Vice-President
 Lowell H. Watts Secretary
 Joseph M. Whalley Treasurer

EXECUTIVE COMMITTEE

Warren Monfort Walter G. Lehrer Walter B. Cooper

*As of October 1, 1957

Personnel

OFFICERS OF ADMINISTRATION:

Rea, Charles Dale B.S., Colorado A & M College M.S., University of Southern California F.D., University of Colorado	President of College
Taylor, Randall D. B.S., University of Nebraska Graduate Study, Newark College of Engineering Rutgers University University of Nebraska Iowa State University University of Colorado	Dean of Faculty
Reid, Charles H., Jr. A.B., Montclair State Teachers College M.Ed., University of Colorado	Registrar
Black, Daniel E. B.S., University of Colorado	Business Manager
Bender, Norman J. B.S., Washington University	Assistant Business Manager
Wallace, Edwin W. B.S. University of New Mexico Graduate Study, University of New Mexico	Director of Student Affairs
Goodwin, LeRoy W. B.A., University of Colorado M.A., University of Colorado Advanced Graduate Study, Columbia University	Director of Information and Services

FACULTY:

Admire, Alice K. B.S., Colorado A & M College Graduate Study, University of Idaho University of Denver	Home Economics
Berg, David B.A., Colorado College M.S., University of Utah	English, Speech, Dramatics
Calhoun, Delmar F. B.S., University of New Mexico	Engineering
Campbell, Thomas F. B.S., Hardin Simmons	Physical Education, Mathematics
Decker, James W. B.S., University of Denver	Business
Delaney, Robert W. B.S., Northeast Missouri State College A.B., Northeast Missouri State College M.A., University of New Mexico Ph.D., University of New Mexico	History, Social Science

- Hallock, Marian Physical Education, Business
 B.S., University of Colorado
 M.A., Colorado State College
- Hart, Herbert D. Chemistry
 B.S., University of Denver
 M.S., University of Denver
 Advanced Graduate Study, University of Colorado
 Syracuse University
- Hensley, Frank Geology
 B.S., Colorado State University
 M.A., University of Wyoming
- Heuser, William L. Business
 B.S., University of Denver
 M.A., University of Colorado
 L.L.B., Blackstone School of Law
 Graduate Study, University of Denver
 Louisiana State University
- Howard, Lyle English, Foreign Language
 B.S., Kansas State Teachers College
 M.A., Western State College
 Graduate Study, University of New Mexico
- Kelly, Floyd W. Business
 A.B., Colorado State College
 M.A., Colorado State College
 Advanced Graduate Study, Columbia University
 Colorado State College
- Mitchell, William J. Art
 B.A., Iowa State Teachers College
 M.A., University of Iowa
- Nethery, Ruby Librarian
 B.A., University of Oklahoma
 B.L.S., University of Oklahoma
 M.A., University of Oklahoma
- Owen, Herbert E., Jr. Biological Science
 B.S., Tulsa University
 M.S., Oregon State College
 Ph.D., Oregon State College
- Plachy, Fredric Mathematics
 B.A., Colorado State College of Education
 M.A., Wyoming University
 Graduate Study, Colorado State University
- Reid, Charles H., Jr. Mathematics, Education
 A.B., Montclair State Teachers College
 M.Ed., University of Colorado
- Rosenkranz, Edwin Music
 B.M., Syracuse University
 M.M., Tulsa University
 Advanced Graduate Study, University of Colorado
 Pennsylvania State University

- Schulz, Julius F. Education, Foreign Languages
 B.S., Nebraska State Teachers College
 M.S., University of Iowa
 Ed.D., University of Colorado
 Post Doctoral Study, University of Heidelberg
- Shawcroft, Joseph L. Agriculture
 B.S., Brigham Young University
 M.S., Kansas State College
- Spangenberg, Donald J. Industrial Arts
 B.A., Nebraska State Teachers College
 M.A., Colorado State College of Education
- Taylor, Randall D. Physics, Chemistry
 B.S., University of Nebraska
 Graduate Study, Newark College of Engineering
 University of Nebraska
 Iowa State University
 University of Colorado
- Wallace, Edwin W. Physical Education
 B.S., University of New Mexico
 Graduate Study, University of New Mexico

MEDICAL STAFF:

- Lloyd, Leo W. Consulting Physician
 M.D., Washington University
- Halley, Tullius W. Consulting Physician
 M.D., Creighton University

EMERITUS:

- Lory, Charles A. President
 Ped.B., Colorado State Normal School
 B.S., University of Colorado
 M.S., University of Colorado
 LL.D., University of Colorado
 D.Ed., Colorado State College of Education
 D.Sc., University of Denver, Colorado A & M College
- Hershberger, Inez English, Foreign Language
 A.B., Kalamazoo College
 Graduate Study, University of Wisconsin
 University of Chicago
 University of Colorado
 University of Mexico
- Hickman, Francis W. Engineering
 B.S., New Mexico School of Mines
 Graduate Study, University of Colorado

DORMITORY SUPERVISORS:*

- Mrs. Nellie Lemming Hostess, Women's Dormitory
 Dr. Julius F. Schulz Proctor, Men's Dormitories

*As of Oct. 1, 1957.

Experiment Station Staff*

Paulson, William H., B.S.	Assistant Agronomist
Riddle, Kent H., B.S.	Assistant Animal Husbandman

Standing Committees

Admissions:

Functions—Admitting students, maintaining the standards of the college, handling disciplinary cases, and ruling on petitions for in-state status.

Assembly:

Functions—Planning and supervision of assemblies, dramatic productions, honors convocation, commencement, and programs of like nature.

Athletics:

Functions—Planning, budget, schedules, and otherwise exercising control over the athletic program.

Curriculum:

Functions—Developing curriculum, revising catalog, and certifying candidates for graduation.

Executive:

Functions—The senior committee, serving in administrative capacity during the absence of the President from the campus, long-range planning and building, considering problems of a policy-making nature, and serving as a board of appeal from other committee actions.

Library:

Functions—To aid and advise the librarian in the selection of books and films, the preparation of budgets and statistical data..

Public Relations and Planning:

Functions—Promoting sound public relations and long-range planning for the campus, printing of all college publications.

Student Financial Aids:

Functions—Recommending and supervising scholarships or grants, and supervising loans to students.

Student Orientation:

Functions—Planning and implementing an orientation program for students, and conducting the College Adjustment course.

*As of Oct. 1, 1957.

General Information

HISTORY:

Fort Lewis Agricultural and Mechanical College was first established on the site of a United States Army Fort of the 1880's, in what is now known as the San Juan Basin and the "Four Corners Area," seventeen miles west of Durango, Colorado. This area is near the junction of Colorado, Arizona, Utah, and New Mexico. When the necessity for troops in this general vicinity ceased, the government established an Indian School, using the land and buildings of the military reservation for this purpose.

The Indian School was terminated in 1911, when the land was transferred from federal to state ownership. With this change Fort Lewis was established as an Agricultural and Vocational High School and was maintained as such until 1933, although some college courses were added to the academic offerings in 1927. From 1933 to the present time, however, Fort Lewis A & M has been exclusively a college-level institution. Until 1948, it was a branch of Colorado A & M College, but in July of that year it became an independent institution, administered by the State Board of Agriculture.

Fort Lewis A & M College in 1956 moved into its most recent phase—a new campus, College Heights, rising five hundred feet above picturesque Durango. All field work, demonstrations, and practical phases of the agriculture curriculum are presented at the original site of Fort Lewis A & M. The major portion of the academic program is now carried on in completely new college facilities on College Heights.

Administrators who guided the destinies of the College were Mr. G. F. Snyder, first Dean who served until his death in 1934, and Mr. E. H. Bader, Dean from 1935 until 1948. Mr. Charles W. McLain was then appointed acting Dean until Dr. Charles Dale Rea was appointed President on July 1, 1949.

THE NATURAL SETTING OF THE COLLEGE:

Fort Lewis A & M College is in an area unmatched for beauty. Forty miles from Durango is Mesa Verde National Park. In this preserve are found the most famous prehistoric cliff dwellings in the United States. Nearby in northern New Mexico are the Aztec Ruins National Monument and the Chaco Canyon National Monument, both prehistoric sites. Near these is Shiprock, rising abruptly from the floor of the desert, a vast rocky spire that challenges the most experienced mountain climbers.

During the school year students are able to visit these and many other near-by areas of interest. Because of the propitious location of Fort Lewis A & M College in the heart of the San Juan Basin, unusual points of scenic beauty and of educational import are easily reached. Adding to the picturesqueness of it all, Indian Reservations of the Navajo, Apache, Ute, and other tribes are settled throughout the area. Indian weaving and jewelry are famous products of this region.

The Great Sand Dunes National Monument and the Black Canyon of the Gunnison National Monument are located at a somewhat greater distance from the campus, the latter being reached from Fort Lewis A & M College over the Million Dollar Highway between Silverton and Ouray, one of the most spectacular scenic drives of the United States. In Southeastern Utah are the Natural Bridges National Monument and the Rainbow Bridge National

Monument. An easy trip into Arizona brings one to the Canyon de Chelly National Park, with its prehistoric cliff dwellings, and finally to the Grand Canyon National Park, where the Colorado River has produced a panorama of erosion acclaimed as the most sublime spectacle in the world. North and northwest of Fort Lewis A & M College lie the La Plata and San Juan Mountains, among which are many of the most suigeneris peaks in the Rockies.

The natural setting surrounding the College provides some of the finest trout fishing, hunting, and mountain climbing opportunities to be found in the United States.

CAMPUS AND FACILITIES:

In 1954 the Colorado General Assembly authorized the construction in Durango, Colorado, of a complete new campus for Fort Lewis A & M College. The new physical plant was occupied in September, 1956.

The new campus is located within the city limits of Durango on a mesa overlooking the city and possessing a panorama of the Animas Valley to the north, and the La Plata Mountains to the west. The campus, consisting of 140 acres, is a place of dramatic beauty. The plans are functional, the style of architecture distinctive, and the native-stone finish indigenous to the region.

Adjacent to the immediate campus area to the east lies the city golf course. The north end of the campus adjoins the city ski tow. Picnic grounds and bridle trails are also located in the area. These recreational facilities are immediately available to students of Fort Lewis A & M College. The campus is only a few blocks from the central business section of Durango.

The academic building, approximately 50,000 square feet in size, houses most of the educational program. Located within this building are administrative offices, the library, laboratories, and lecture-type classrooms.

A Fine Arts Building will be completed in early 1958 and will house a museum, complete fine arts department, and a Little Theatre.

Industrial Arts courses are taught in a separate building.

The physical education program is conducted in the gymnasium, the finest structure of its kind in the San Juan Basin. Permanent-type seating is provided for spectator comfort. To the immediate north of the gymnasium are playing fields for conducting such activities as tennis, football, track, baseball, and various intramural sports.

Funds donated by friends of Fort Lewis A & M College have been used to provide an inter-denominational chapel for students who wish to use it.

Three dormitories were completed in 1957, two of which are for men and one for women. Each dormitory has a capacity of sixty students.

Also completed in 1957 was the Student Union Center which houses a large ballroom, cafeteria, book store, snack bar, and student offices. The dormitories and the Student Union Center are connected by arcades and function as a center of student activities.

Married student housing is provided on the campus in the form of five four-plex type residences.

The campus and buildings have been carefully planned so as to be functional. Every possible facility is provided for supervised recreation and study. In the establishment of the curriculum of study the designing of the

college buildings, and in the planning of the campus layout, maximum effort was made to dovetail all elements into the philosophy of making it possible for each student to experience a degree of acceptance, recognition, and individual success.

THE COLLEGE EXPERIMENTAL FARM:

The college experimental farm, comprising 6,318 acres of land, is used extensively for instructional purposes and agricultural research. Experimental projects include the testing of field and horticultural crops under high altitude conditions, the production and distribution of foundation seed, and investigation into the improvement of beef cattle by inbreeding techniques. These research projects are conducted in cooperation with the Colorado Agricultural Experiment Station.

The experimental farm is located approximately seventeen miles west and south of the main campus. The college provides transportation to and from the experimental farm for agricultural laboratory field work. Maximum instructional use is made of the research projects and the overall farm and ranch operation. This makes it possible for the agricultural major to become acquainted with the scientific, as well as the practical, aspects of farming and ranching.

COLLEGE LIFE:

The size of the student body allows for individual attention on the part of the faculty and administration; the general tenor of the campus is pleasant and friendly.

The organization of recreational activities is largely extra-curricular in nature. Supervised by the Director of Student Activities, students plan and participate in a variety of leisure-time pursuits, such as dancing, horseback riding, skiing, hayrides, rock hunting, practicing archery, and any other activities wherever interest is evinced. Since there are no fraternities or sororities, participation in social events is open to all.

It is the policy of Fort Lewis A & M College to encourage not only a student activity program that will serve group interests of an academic or social nature, but also one that will provide for individual development. The program attempts to promote an appreciation of cultural and esthetic experiences, as well as to imbue the student with the social responsibilities of the individual and the need for leadership. All of this activity is an intrinsic part of the democratic philosophy underlying the junior college movement in America.

ORGANIZATION OF THE COLLEGE:

Fort Lewis A & M College is a two-year state-supported, co-educational institution under the control of the Colorado State Board of Agriculture, and is a member of the American Association of Junior Colleges.

The curriculum of the college is divided into two major areas: Lower Division; and Terminal Education. The college is on the semester system, two semesters making up the academic year.

TRANSFER OF CREDITS:

Transcript of record at Fort Lewis A & M College is given full value at Colorado State Institutions. Credits are accepted at full value by other colleges and universities if the credits are those prescribed for a given curriculum.

SELECTIVE SERVICE DEFERMENT FOR COLLEGE EDUCATION:

The present regulations of the Selective Service Administration encourage capable and sincere students to achieve a college education. Accordingly, every male student is entitled to one statutory deferment. Any student who is ordered for induction during an academic year and has never before been deferred is entitled to be deferred to the end of the academic year. Upon receipt of induction orders, the student may present his case to his local board at once.

Continued education after the first deferment demands that the student, while a freshman, stand in the upper half of the freshman class or get a score of 70 or above on the Selective Service College Qualification Test. The student may continue to be deferred until he achieves a baccalaureate degree if he maintains the necessary scholastic average.

Reports must be made to draft boards at regular intervals concerning the status of men whose military service has been deferred while they attend college. It should be remembered that any deferment after the first statutory deferment is optional with the local selective service boards.

INFORMATION FOR VETERANS:

Fort Lewis A & M College is approved by the Veterans Administration for the training of both Korean and World War II Veterans. Provision has been made to help former service men and women obtain the benefits to which they are entitled. The Registrar will gladly answer questions about admission, credit for training in the armed services, college courses, and programs of study.

Veterans who are eligible for such benefits may obtain the first two years of their college work at Fort Lewis A & M College. Application for these rights should be made at the nearest Veterans Administration Office. This application should be made just as soon as the veteran has definitely decided where he wants to go to college and what course he wishes to pursue, so that his file can be set up and a "Certificate for Education and Training" can be issued prior to the opening of school.

All educational work done by the veteran while in active service will be evaluated and credit given where possible.

INDIAN STUDENTS:

Fort Lewis A & M College is a State-Supported Institution of Higher Learning. Under a stipulation of the Federal Government, all Indian students who are able to provide evidence of membership in a tribe will be admitted tuition free.

Services To Students

LIVING ACCOMMODATIONS:

Residence halls are furnished with the essential furniture and bedding except pillows. All decorative equipment, radios, etc., must be provided by the student. Rules of occupancy for each residence hall, as established by the college, must be adhered to.

General Policy:

The College provides extensive housing facilities for its students. Residence halls are supervised by resident counselors. All freshmen women not living at home are required to live in the college residence

hall. All sophomore women not living at home are required to live in the college residence hall unless granted special permission by the Dean of the Faculty to live off the campus. Women students are not permitted to live in apartments.

Residence Hall For Women:

The women's dormitory, an attractive two-story building containing thirty double rooms, accommodates sixty students. A covered arcade connects the dormitory with the Student Union Center. Laundry and storage facilities are conveniently located in the residence hall.

Residence Hall For Men:

Living accommodations are provided for men in two dormitories. Each dormitory unit houses sixty students. These units are attractive, two-story buildings, each containing thirty double rooms. They are connected to the Student Union Center by an arcade. Laundry and storage facilities are available in each building.

Housing For Married Students:

A twenty-unit housing project, newly constructed and providing attractive, wholesome quarters for married students, is located on campus. These units are furnished with the essential bedroom and kitchen furniture, including stoves and electric refrigerators.

STUDENT UNION CENTER:

The Student Union Center, an inviting two-story building, housing the dining hall and other student facilities, is conveniently located between the dormitories and the main classroom building. Meals are served to boarding students in the dining hall. Those who do not board may use the facilities of the dining hall by purchasing meal tickets, in advance, from the Business Office. Trained personnel supervise the dining hall.

The College bookstore and snack bar are also located in the Student Union Center. Students may purchase all necessary books and supplies, as well as many personal items, from the bookstore.

A large lounge for the use and convenience of all students, meeting rooms and offices for student functions, are provided here.

STUDENT COUNSELING:

Each student at Fort Lewis is assigned to a faculty advisor on the basis of his vocational and major field interest. He becomes acquainted with his faculty advisor whose friendly interest helps him to solve personal problems and to plan and evaluate his college work as he progresses.

The student's advisor continues as such unless the student changes his major or asks to be transferred. In helping the student register, the advisor channels his assistance on the student's preferences, his previous record, and the test scores made on standard tests given during Freshman Orientation. He discusses and plans with the student the school or vocational choice to be selected when ready to leave Fort Lewis. The Director of Student Affairs is also available as a counselor, and is in charge of assisting students in obtaining part-time jobs.

Fort Lewis A & M College invites any prospective student who desires clarification of his personal status in relation to college entrance to visit the Director of Admissions or the Registrar.

STUDENT HEALTH SERVICE:

The Student Health Service provides two physicians to care for illnesses and injuries of full-time students. Dr. Leo. W. Lloyd and Dr. Tullius W. Halley, whose offices are located at 2075 Main Avenue, Durango, Colorado, will provide treatment on an appointment basis.

Illness will be reported to the Director of Student Affairs who in turn will arrange for individual appointments with the doctors. In emergencies the college will furnish transportation to the doctor's offices.

To supplement the medical services provided by the college, all full-time students are required to participate in an accident insurance program. The program is compulsory for all students and cannot be waived for any cause. This insurance coverage is underwritten by the Continental Casualty Company.

This policy affords a maximum coverage of \$500.00 for each accident to cover doctor's bills, hospitalization and medications. Sickness benefits are paid on a scheduled basis. However, in case of sickness the student must be hospitalized. In case of an accident, it is not necessary to be hospitalized, but treatment by a doctor is necessary. Minor illnesses and injuries are provided for by the Student Health Service Program.

This policy provides protection for almost any type of accident, but it does carry the standard exclusion features specifically excluding accidents involved in non-commercial and non-schedule airlines and private aircraft.

For students participating in intercollegiate sports, the college provides an insurance program to cover injuries incurred while engaged in practice or competition. The schedule of benefits specifies a maximum coverage of \$500.00 for each accident.

Athletes who engage in intercollegiate sports are required to participate in an insurance program recommended by the National Junior College Athletic Association. The cost of this program is nominal—\$1.25. The athlete is insured up to \$5,000.00 for each injury incurred while engaged in recognized competition or while traveling to and from such a contest. This insurance policy carries a \$250.00 deductible clause. Used in conjunction with the policy mentioned above, it affords maximum protection to those students engaged in athletic competition.

SCHOLARSHIPS AND GRANTS:

A number of scholarships and grants are available to students of Fort Lewis A & M College. Application should be sent to the chairman of the Student Financial Aids Committee by May 1 of each year so that awards may be presented at High School Commencement Exercises.

Joint Honor Scholarships:

Fort Lewis A & M College is a participating institution in the Joint Honor Scholarship Plan, and the scholarships are honored by the college. To be eligible for the scholarships students must rank in the upper 25 percent of their graduating class and must have attained an established minimum score on the American Council on Education Psychological Examination.

These scholarships are awarded for a four-year period with the recipient being able to transfer at the end of any term to any other participating institution if he is eligible to retain his scholarship.

Joint-Honor Scholarship recipients must attain a 2.50 cumulative average by the end of the freshman year and make a 2.75 average for the first semester of the sophomore year. For transferring the Joint-Honor Scholarship at the end of the sophomore year a 2.75 second yearly average is necessary. Grades of scholarship recipients will be reviewed by the Student Financial Aids Committee at the end of each semester. Students whose averages fall below the minimum scholarship average will be subject to probation and in extreme cases, scholarships will be revoked.

Recognition-of-Merit:

A student to be qualified for a Recognition-of-Merit Scholarship must have ranked in the upper one-third of his class, must have demonstrated the capacity for leadership through activity participation, and should have the recommendation of his high school principal or superintendent.

Scholarship recipients must attain a 2.50 cumulative average by the end of the freshman year and make a 2.75 average for the first semester of the sophomore year to retain the scholarship. Grades of scholarship recipients will be reviewed by the Student Financial Aids Committee at the end of each semester. Students whose averages fall below the minimum scholarship average will be subject to probation and in extreme cases, their scholarships will be revoked.

Grants:

A number of Athletic, Music, and Educational Grants are available. Athletic and Music grants are awarded to deserving students who have demonstrated particular ability in the fields of athletics or music.

Educational grants are awarded on the basis of leadership, satisfactory scholarship, and actual need.

These awards are granted for a term of one year and may be extended for a second year dependent upon the student's scholastic average.

Sponsored Scholarships:

All other scholarships are awarded on a basis of need as well as for scholarship and all-around ability.

Burns National Bank: This \$250.00 scholarship is available to a high school graduate of the San Juan Basin. The recipient will be selected on the basis of scholarship, citizenship, leadership, and need.

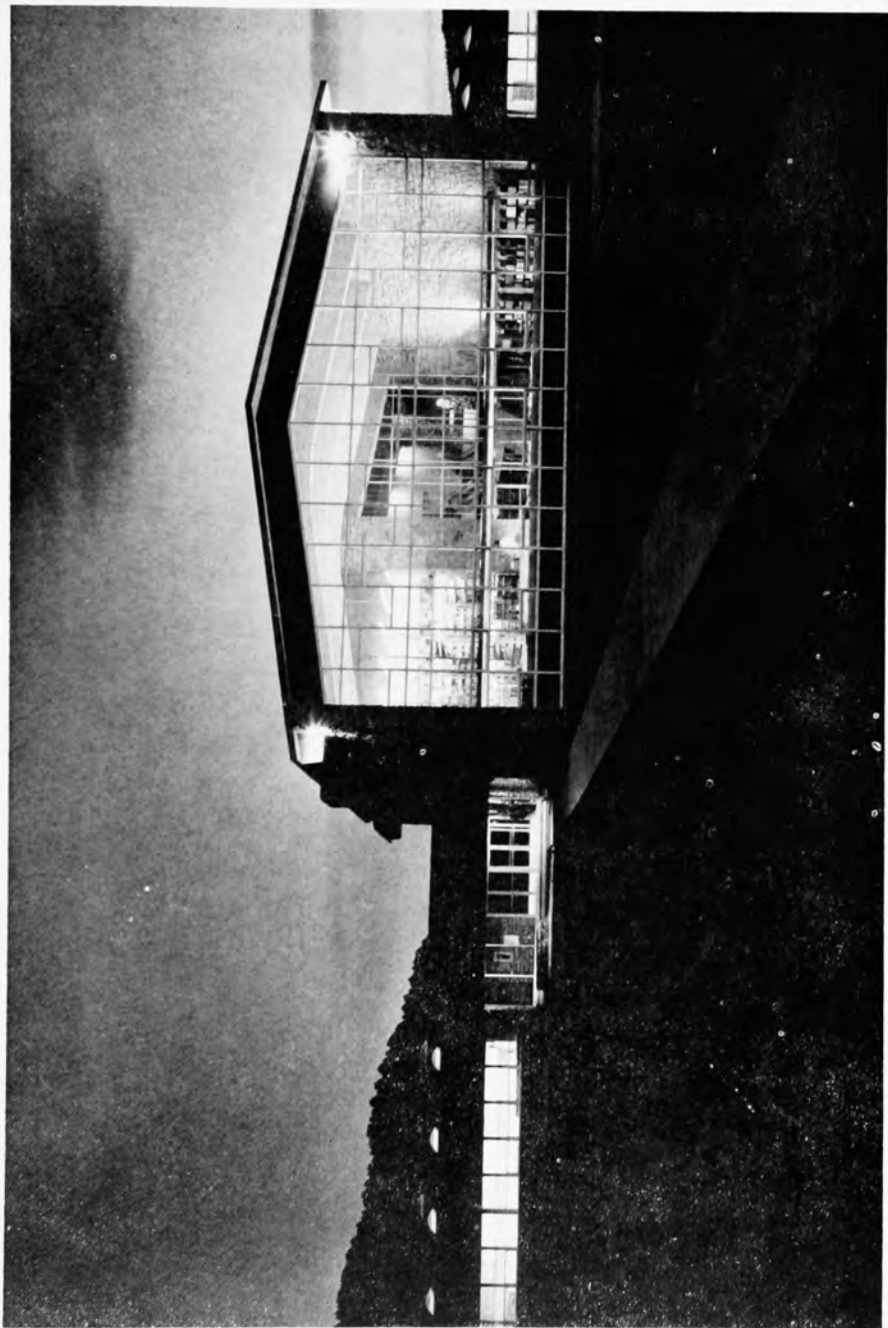
Coors: A \$250.00 scholarship is available to a high school graduate who is a deserving athlete.

Cortez Elks' Lodge: One scholarship is available to a graduate of Montezuma County High School and is good for one year.

Cortez Lions Club: One scholarship is available to a graduate of Montezuma County High School and is good for one year.

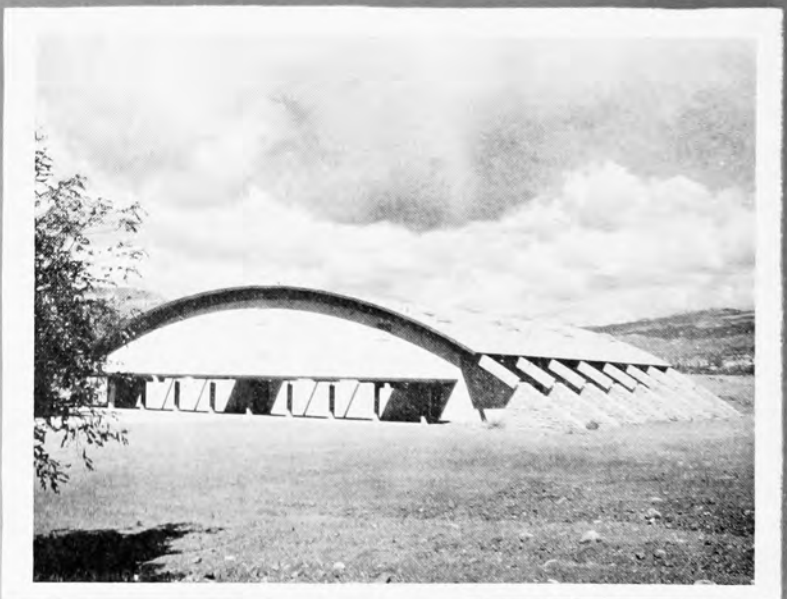
Cortez Rotary Club: One scholarship is available to a graduate of Montezuma County High School and is good for one year.

Denny Viles - V.C.A.: A scholarship of \$250.00 is available to a high school graduate who intends to major in engineering, shows promise, and indicates need.





The Raman A. Miller Student Center



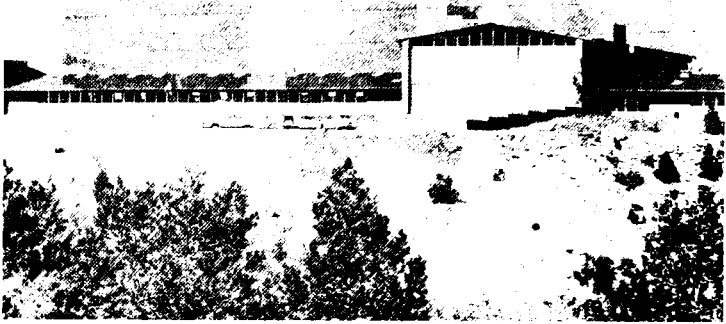
The Gymnasium



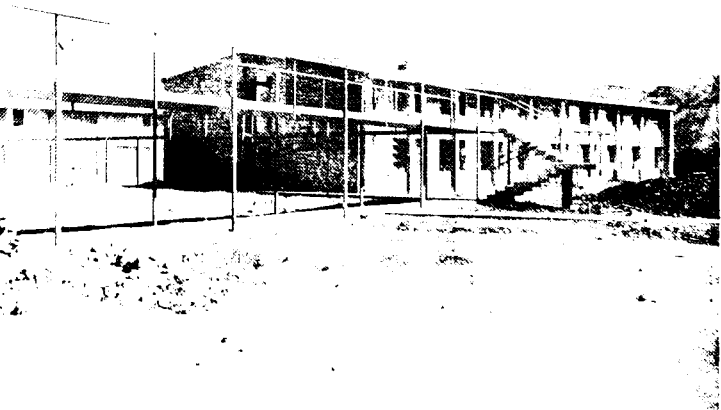
The A. M. Camp Residence Hall For Men



The Women's Dormitory



The Administration Building and the La Plata Mountains



Terrace Walks Connect the Dorms to the Student Center



The Chapel



The President's Home



The Fort Lewis A & M College Campus



The Lounge in the Administration Building



The Lobby in the Administration Building



The Fort Lewis A & M College Experimental Farm



Beef Judging at the Experimental Farm

Durango Lions Club: This \$250.00 scholarship is available to a deserving student who can qualify on the basis of scholarship, citizenship, leadership, or athletics.

Drs. Leo Lloyd and Tullius Halley: This is a \$250.00 scholarship that is available to a student who can qualify on the basis of scholarship, citizenship, leadership, athletics, or need.

Durango Herald-News: One \$250.00 scholarship is available to a graduate of a San Juan Basin high school and is good for one year.

Durango Music Co.: One scholarship is available to a high school graduate on the basis of musical ability and need.

Durango Television: One \$250.00 scholarship is available to a high school graduate who can qualify on the basis of athletic ability, need, and a satisfactory scholastic record.

A. M. Camp: A \$250.00 scholarship is available to a high school graduate who shows special ability in either dramatics, debate, music, or athletics. A Spanish-American is preferred.

Graden Mercantile Co.: A \$250.00 scholarship is available for a Durango High School graduate who is interested in retailing. The recipient is selected on the basis of character and scholarship. This scholarship is good for one year.

Durango Rotary Club: Two scholarships are available to graduates of Durango High School and each is good for one year.

Painters' Local No. 1664: One \$250.00 scholarship is available to a boy or girl. It is preferred that he or she be a relative of a member of a trade union in the Basin Area of Colorado. This scholarship is good for one year.

Durango Trades and Labor Temple: One \$250.00 scholarship is available to a boy or girl. It is preferred that he or she be a relative of a member of a trade union in the Basin Area of Colorado. This scholarship is good for one year.

Federal Lumber Company: One scholarship is available to a high school graduate who can qualify on the basis of scholarship and need. This is a \$250.00 scholarship.

Pepsi-Cola: A \$250.00 scholarship is available to a high school graduate who is a deserving athlete.

Turner's Industrial Bank: One \$250.00 scholarship is available to a high school graduate who majors in business administration and can qualify on the basis of scholarship and need.

J. J. Harris & Company: A \$250.00 scholarship is available to a high school graduate in the San Juan Basin of the Colorado area. The recipient will be selected on the basis of scholarship, citizenship, leadership, athletics, or need.

KIUP—Durango, Colorado: A \$250.00 scholarship is available to a high school graduate who can qualify on the basis of scholarship, citizenship, leadership, athletics, or need.

KVBC—Farmington, New Mexico: This scholarship is available to a high school graduate who can qualify on the basis of scholarship, citizenship, leadership, athletics, or need. This is a \$250.00 scholarship.

KVFC—Cortez, Colorado: This scholarship is available to some student from Montezuma, Dolores, or San Miguel County, Colorado; preferably one who is interested in speech, or radio, or journalism.

OES—Kensington Club: One scholarship is available to a graduate of a San Juan Basin high school and is good for one year.

Pilot Club: This scholarship is available to any high school girl graduate of La Plata County. She must be in the upper one-fourth of her class, and she must submit a 300 (or more) word essay on the subject "Why I Want To Attend Fort Lewis A & M College."

La Plata County Teachers' Association: One scholarship is available to a graduate of a La Plata County high school showing financial need and preferably one who is planning to major in elementary education.

Sally Ann Bakers "Holsum Bread" Scholarship: This scholarship is available for a deserving athlete and is good for one year.

The Uptown Literary Society: This is a \$250.00 scholarship that is available to a student who can qualify on the basis of scholarship, citizenship, leadership, athletics, or need.

J. Stanley Weidman, Incorporated: One \$250.00 scholarship is available to a high school graduate who is in need.

LOAN FUNDS:

Five funds have been established to give assistance to needy students: The Snyder Memorial Loan Fund, the Marie Ochner Memorial Loan Fund, the Fort Lewis Alumni Loan Fund, and Durango Kiwanis Club Loan Fund. The combination of all loan funds is known as the Fort Lewis Loan Fund. Formal application must be made to the Student Financial Aids Committee.

EMPLOYMENT OPPORTUNITIES:

The college has established an employment service to assist students in obtaining campus and off-campus work and placement of its graduates who seek permanent positions. This service is available to students at all times. A student desiring employment should confer with the Director of Student Affairs.

AWARDS:

Each fall an Honors Convocation is held, at which time honor keys are presented to sophomores for outstanding scholarship during their freshman year.

Several outstanding graduates are awarded scholarships to senior colleges at commencement.

The phrase "cited for scholarship" will be recorded on permanent record cards of full-time students who achieve at least a scholarship average of 3.30 during a semester.

LIBRARY:

Serving every department of the college as a central unit of instruction, the library provides ever increasing facilities for research as well as for general reading.

The book collection contains 14,572 volumes. In addition there are 3,215 volumes of periodicals and more than 11,000 pamphlets.

The library has a notable and growing collection of Southwestern literature and archaeological material about the San Juan Basin. It is staffed by a professionally trained librarian, plus an adequate number of student assistants.

Expenses*

GENERAL FEES: Effective, September, 1958

Tuition (Per Semester)	\$55.00
Students registered for fewer than 12 hours will be allowed a deduction at the rate of \$5.00 per credit hours with a minimum fee of	
	\$20.00
Registration Fee (Per Semester)---However original registration fee must accompany the application for admission	
	\$ 5.00
Non-Resident Tuition (paid in addition to resident tuition)	
Per Semester	\$30.00

REGULATIONS GOVERNING IN-STATE AND OUT-OF-STATE TUITION STATUS:

A student is classified as in-state or out-of-state registrant for tuition purposes at the time he is granted admission. The classification is based upon information furnished by the student, and all other available relevant evidence. After the student's status is determined it is rarely changed. The student who, due to subsequent events, becomes eligible for in-state tuition must make formal application for change of status.

Qualification for in-state tuition requires both (1) adoption of the state as a fixed and permanent home, and involves personal presence within the state at the time of such adoption, together with the intention of making Colorado the true home; and (2) residing within the state while not attending school for twelve consecutive months immediately prior to the date of enrollment. These requirements must be met by either (a) the father, mother, or guardian of the student who is a minor; or (b) the male student or unmarried woman student if over 21; or (c) the husband of a married woman student; or (d) the emancipated minor.

The residence of a minor is that of the parents except in the rare cases of emancipation. The residence of the father during his life, and after his death the residence of the mother, is the residence of the minor. If the father and the mother have separate places of residence, the minor takes the residence of the parent with whom he makes his home, or to whom he has been assigned by court order. If neither of the parents is living, the minor takes the residence of a legally appointed guardian, if any, but cannot be regarded as an in-state student for tuition purposes until the expiration of twelve months after such appointment.

A minor student whose parents move their residence from Colorado to a location outside of Colorado shall be considered to be an out-of-state student after twelve months from the date of the parents'

*The State Board of Agriculture reserves the right to change any fee at any time without formal notice, whenever conditions warrant such change.

removal from the state.

In the event that emancipation is established, the minor assumes all responsibilities of an adult and must have been in residence in the state for twelve consecutive months while not in school before he may attain in-state status.

An in-state student, if 21 years of age or over, is (1) one who has resided in Colorado while not attending school for twelve consecutive months or more immediately prior to enrollment, or (2) one whose parents have resided in the state for the required time (or so resided at the time of their death) and who has not himself acquired residence in another state, or (3) one who has been under an annual teaching contract in the state, having completed the obligations under this contract, and who intends to make Colorado his permanent home.

No person shall be presumed to have gained or lost in-state status in this state while a student or while serving in the armed forces.

The residence status of a wife for tuition purposes is presumed to be that of her husband. An out-of-state woman student may attain in-state status through marriage; an in-state woman student may lose this status through marriage.

Dependents of persons whose legal residence is permanently established in Colorado may continue to be classified as in-state students so long as such residence is maintained even though circumstances may require extended absences of said person from the state.

A student from another state who comes to Colorado and immediately enrolls for a full program or substantially a full program in any type of institution of education will be presumed to be here primarily for an education and will be considered not to have established in-state status for tuition purposes. Continued residence in Colorado during vacation periods or occasional periods of interruption to the course of study do not of themselves overcome the presumption.

Ownership of Colorado real estate by an out-of-state student or his parents or guardian will not in itself entitle the student to in-state tuition. Acquisition of real estate while a student, shall not in itself qualify him as an in-state student. Voting in elections, obtaining driver's licenses, hunting, fishing and other licenses, or part-time or full-time employment while a student in Colorado do not in themselves qualify the student for in-state tuition. All such matters will be considered in determining the true intent of the person claiming Colorado residence.

A student who willfully gives wrong information to evade payment of out-of-state tuition shall be subject to serious disciplinary action.

The final decision regarding tuition status rests with the institution.

Associated Students fee (covers all student-sponsored activities)	
Per Semester	\$20.00
Cadet fee (pays for the student's copy of the yearbook, collected at the beginning of the semester upon registration)	\$ 5.00
Student Union fee (per semester)	\$ 5.00
Health fee (12 months insurance coverage - assessed for College health program. Collected at the beginning of the semester upon registration)	\$20.00

Students registered for fewer than 6 credit hours will not be assessed the Associated Students fee, Cadet fee or Health fee.

SPECIAL FEES:

Late Registration	\$ 2.50
Fee for schedule change requested by the student	1.00
Special Examination Fee	3.00
Transcript of Credits (the first one is free)	1.00
Applied Music (in addition to regular tuition for non-music majors: One half-hour lesson per week (voice or instrumental) Per semester	25.00
Two half-hour lessons per week (voice or instrumental) Per Semester	40.00
*Laboratory Fees—(per semester)	
Art	5.00
Bacteriology	5.00
Biology	5.00
Botany	5.00
Chemistry	7.50
Cooking	5.00
Geology	10.00
Elements of Art Metal	10.00
Physics	5.00
Soils	7.50
Typing	3.00
Welding	15.00
Woodworking	5.00
Zoology	5.00
Graduation Fee	7.50
Graduation in Absentia Fee	15.00

Charges for Audit Courses shall be at the regular tuition rate. Information concerning Audit Courses may be obtained from the Registrar.

DEPOSITS:

Room deposit	\$20.00
Apartment deposit	25.00
(Any unused portion of these deposits shall be returned.)	

RESIDENCE HALLS:

Board—per semester (18 meals per week)	\$195.00
Room—per semester	100.00
Total	\$295.00

MARRIED STUDENT HOUSING

One-bedroom apartment—per month	\$ 55.00
Two-bedroom apartment—per month	60.00
Rental rates include all utilities except gas. Gas is provided by the local utility company on a metered basis to each apartment.	

*Excessive breakage in any laboratory course will result in the assessment of an additional fee sufficient to cover expense incurred.

FEE REGULATIONS**Payment of Fees**

All tuition, fees, and deposits for the semester are payable at the time of registration—the first day of each semester. Registration is not considered complete, and attendance in classes will not be permitted, until the student has met his financial obligations in full.

Room and Board charges are payable at the time a student moves into the dormitory. Upon proper request to, and recommendation by the designated College official, a student may make arrangements to pay room and board charges in three installments as follows: \$100.00 due and payable upon occupying the dormitory; \$100.00 due the first of the following month; \$100.00 due the first of the second following month.

College Housing Application forms may be obtained from the College Housing Office. A \$20.00 room deposit and a \$50.00 advance payment on room rent must be remitted with all Dormitory Housing applications. Room assignments will not be made until this payment has been received by the College. All students who live in the dormitories are required to take their meals in the College Cafeteria.

The first month's rent must be remitted with the application for Married Student Housing. A security deposit of \$25.00 is required at the time keys to the apartment are issued. To be eligible for quarters in the Married Student Housing Units, a student must be a duly registered full-time student. Priority in the assignment of apartments will be made on the basis of date of receipt of the complete application and the date occupancy is desired. Date of occupancy will be given first consideration in the assignment of apartments.

In the event that a student who has submitted the full application for dormitory housing decides not to live in the dormitories, such notice must be in the College Housing Office at least 30 days before the beginning of the term housing is required. Refunds will be made if such notice is received within the time specified giving consideration to the cost of processing the application.

No refunds will be made on applications received for Married Student Housing.

Refund of Tuition and Fees

A student dismissed from college as a result of official college action will automatically forfeit all tuition and fees.

Fees are not refundable to any student withdrawing from college.

A student withdrawing from college within seven (7) days after the official registration date may obtain a full refund of tuition. A student withdrawing after the first seven (7) days and before the 21st day may obtain a refund of one-half the tuition. No refunds will be made 21 days from date of registration.

Refund of Residence Hall Fees

No refunds will be made to students paying on an installment basis.

A student withdrawing from college within the first seven (7) days may obtain a refund not to exceed 40% of the room fee. A student withdrawing after the first seven (7) days and before the 21st day may obtain a refund of the room fee not to exceed 30%. No refunds will be made 21 days from date of registration.

The policy on refund of Board Fees shall be: A refund will be made of any balance remaining after an assessment of \$50.00 plus \$12.50 per week for the time the student took his meals in the College cafeteria. No refund of Board Fees will be made after 10 weeks from date of registration.

AVERAGE COST FOR ATTENDING FORT LEWIS A & M FOR ONE YEAR:

Tuition and Registration Fee	\$120.00
Student Fees	55.00
Health Fee	20.00
Laboratory Fees (average)	10.00
Room Deposit	20.00
Room	200.00
Board	390.00
Total	<u>\$815.000</u>

The amount of money spent in a school year (two semesters) by a student for all other expenses varies according to current prices and the habits of the individual student. Cost of books, supplies, and equipment will vary from approximately \$50.00 per year for the General Arts and Science Major to about \$100.00 per year for the Engineering Major.

Each student should provide for additional funds to cover such expenses as cleaning, laundry, clothing, amusements, etc. Students planning on attending college should so arrange their finances that they will arrive on campus with sufficient financial resources to insure successful completion of at least one semester.

For the student who lives at home, the average cost for tuition, fees, and books will be approximately \$275.00 per year.

VETERANS BENEFITS:

Fort Lewis A & M College has been approved by the Veterans Administration for the training of veterans under Public Laws 550, or 894. They have all the rights and privileges of any of the students; however, they are required by the Veterans Administration to follow its rules and regulations. Veterans under Public Law 550 pay their own tuition and fees and purchase books and supplies from their own funds. They must present their "Certificate for Education and Training" to the Registrar on registration day and are responsible each month for filling out and signing a "Certificate of Training" form on the last day of the month and turning it in to the Registrar.

Veterans under Public Law 894 who have established their eligibility with the Veterans Administration, and present their "Certificate of Eligibility" to the Registrar, will be permitted to register without payment of tuition or fees. Those who have not received their "Certificate of Eligibility" will pay fees as non-veterans, but will be refunded all cost of instruction covered by their "Certificate of Eligibility" at the time of its presentation.

All veterans who are considering using their veterans benefits at Fort Lewis A & M College should consult with the Registrar prior to registration.

Student Organizations and Activities

Fort Lewis A & M College has a full, well-rounded calendar of social activities for the year. This calendar is planned and prepared by the student social committee representing the student body.

The extra-curricular activities range from those mentioned later in this section to the informal dances, picnics, parties, and other affairs which have become a tradition on campus. Among the many traditional affairs are the Fall Mixer, Honors Convocation, Homecoming, quarterly formals, and commencement. Student assemblies are held periodically for the purposes of recreation and information, and prepared programs are presented by student groups and by speakers or performers drawn from outside the campus. The greatest portion of the total cost of extra-curricular activities is covered by the regular Associated Student fee.

STUDENT GOVERNMENT

The affairs of the student body are managed by the Student Council, consisting of specially elected officers, together with presidents and vice-president of classes and representative groups. Acting as the executive committee of the student body, the Student Council considers all problems brought before it, and presents its findings to the general assembly of the students. Faculty advisors are ex-officio members of the Student Council and other agencies of student government.

BAND:

Membership in the college band, which makes several public appearances during the school year, is open to all students who are interested and sufficiently advanced in any band instrument.

CHORUS:

The chorus presents frequent programs of varied interest during the school year, and membership is open to all interested and qualified students. During the year the chorus makes a tour of the San Juan Basin.

DRAMATICS CLUB:

The Dramatics Club is open to all students. Plays are given throughout the year at student assemblies and on community occasions. Participants not only develop their acting abilities, but also learn some principles of costuming, stage design, and make-up.

RADIO PROGRAMS:

Station KIUP, which serves the San Juan Basin Area, allots weekly program time to Fort Lewis A & M College for the presentation of programs in the public interest. Student participation is encouraged.

SMOKE SIGNALS:

The official Fort Lewis A & M College newspaper is edited and managed by the students. It provides practical experience in journalism for staff members.

WESTERNERS' CLUB:

The Westerners' Club is open to all students interested in activities of a western nature. The Club also sponsors square dances on the campus.

CADET:

The Cadet is the Fort Lewis A & M College yearbook published by a staff of students. This publication illustrates college activities and student life for the year. The staff members receive practical experience in planning, writing, editing, and the selling of advertising.

THE ALUMNI ASSOCIATION:

All students who have been regularly enrolled at Fort Lewis are members of the Fort Lewis Alumni Association, which promotes the welfare of the college by uniting former classmates. Alumni are invited to participate in homecoming activities.

INTERCOLLEGIATE ATHLETICS:

Fort Lewis A & M College is a member of the Empire States College Conference and National Junior College Athletic Association. After two years of participation in this Conference, athletes are still eligible for two more years of competition in four-year colleges or universities. The intercollegiate athletic program is under the supervision of the Athletics Committee composed of faculty members. For information on insurance see section on insurance under "Services to Students."

INTERCOLLEGIATE DEBATE:

Several planned trips are made by the debate team each year to engage in intercollegiate debate contests. Students with or without debate experience are encouraged to participate in this productive speech activity.

ACADEMIC INFORMATION

HOW TO ENROLL AT FORT LEWIS:

1. Write now for an application blank, and if you desire a catalog send your letter to the Dean of Faculty, Fort Lewis A & M College, P. O. Box 1104, Durango, Colorado. In the letter tell whether you are entering from high school or have attended another collegiate institution, and state the courses of study you are considering. The Dean of Faculty will be glad to answer any questions you may have.
2. Fill out your part of the application form and give it to your high school principal to complete and return to the Dean of Faculty, Fort Lewis A & M College, P. O. Box 1104, Durango, Colorado. If you are transferring from another college send the application blank to Fort Lewis A & M College and ask your registrar to send a transcript to the College.
3. Immediately after receiving your Permit to Register make your reservation for housing if you desire to live on campus.
4. During the summer, you will be sent information about Freshman Orientation and registration.

HOW EARLY MAY ONE APPLY:

You may apply six months before the opening of the term in which you expect to enroll. If you are a high school senior, you should apply for admission during your last semester of high school.

Provisional admission will be given on the three and one-half years of work and on the list of courses "in Progress."

REQUIREMENTS FOR ADMISSION:

Any graduate of an accredited high school who has completed fifteen acceptable units of high school work, including three units of English, is eligible for admission to the Freshman Class. However, students majoring in Engineering are expected to include $1\frac{1}{2}$ units of algebra and 1 unit of plane geometry in the 15 units. Such students not having the mathematics background will be required to take deficiency courses to correct this weakness. These students probably will need to register as a General Arts and Science major for a year until the deficiencies are corrected. It is also recommended that Engineering students will have completed one year of high school chemistry and one year of high school physics. Applications from graduates of an unaccredited high school will be passed upon according to the merits of the individual case.

Students transferring from other colleges may be admitted to advanced standing at Fort Lewis A & M College; however, a transcript of work completed at other colleges must be received and evaluated before they are admitted in good standing.

In cases where the transcript has not arrived, the student may be admitted on probation. If the transcript has not been received after a reasonable time, the student shall be suspended. Transferring students who expect to participate in athletics must request an official statement of the years of athletic participation charged against them to be sent with the transcript.

Veterans or adults who did not complete high school but who pass the General Educational Development Tests will also be admitted as regular students.

Admission of foreign students will be determined according to the individual case.

Students not desiring regular college status may be admitted as special students at the discretion of the President and the Dean of Faculty.

DEFINITION:

Terminal: Students who do not intend to continue their formal education above the junior college level are designated as "terminal." The program of terminal students is governed by the division in which they wish to specialize.

Freshman: A student who has matriculated but who has not completed 30 semester hours of college work.

Sophomore: A student who has completed at least 30 semester hours of college work.

Part-time: A student who takes less than 12 semester hours of college work.

PLACEMENT TESTS:

Placement tests are given to new students before registration. These tests are required, but not in the sense that they are entrance examinations. Students do not "pass" or "fail" these tests, but instead they are used to determine interests and abilities.

The results are used for guidance purposes and to assist the counselor in advising and planning a course of study so that the student will get the most out of college.

Those who make low scores in the English test are required to take Remedial English during the first semester of their Freshman Year.

COURSES OF STUDY REQUIREMENTS:

The curriculum selected by the individual student depends upon his present interests and his future plans. The requirements of each curriculum have been determined in accordance with academic standards of college work. The curricula requirements of the student who later transfers to a senior college or university have been carefully selected to fulfill the requirements of the lower division of these institutions. Since many senior colleges and universities differ in their lower division requirements, students who plan to continue college work after leaving Fort Lewis A & M College should decide upon the college to which they will transfer and plan their curriculum here so that they will meet the lower division requirements of the college of their choice.

AUDITING PRIVILEGES:

A student may register for auditing privileges in courses if he desires to attend the classes regularly, but does not wish to take final examinations, receive grades, or credit. Auditors are required to pay fees at the same rate as if enrolled for credit. They must, upon registration, declare themselves as auditors and may not change to credit basis after the first two weeks of the semester. A student enrolled for credit in a course may not change to an auditing basis in the same course after the first two weeks of the semester. When registering, a student may take both audit and credit courses, but the total should not exceed normal load.

REGISTRATION:

After the student has fulfilled admission requirements, he will receive a notice that he has been accepted for admission. Registration materials will be available to him on registration day. Each regular and special student must go through the registration procedure, fill out all forms provided, and pay his tuition and fees at the appointed time.

REMOVAL OF HIGH SCHOOL DEFICIENCIES:

Students with high school deficiencies should make arrangements to remove them during their freshman year. Fort Lewis A & M College offers certain courses for this purpose.

CREDIT ALLOWED FOR MILITARY SERVICE:

Credit will be allowed according to the recommendations established by the American Council on Education. Four semester hours credit for required Physical Education will be granted. Other credit will be given where possible.

CREDIT MEASUREMENT:

The unit of measurement for credit purposes is the semester hour. One semester hour is the equivalent of one hour of recita-

tion, lecture, or a minimum of two hours laboratory work per week for one semester, unless otherwise specified in the course description. For each classroom hour of lecture or recitation two hours of preparation are expected.

GRADE AND QUALITY POINT SYSTEM:

Official reports of grades is by letter only, as follows:

A	(Excellent)
B	(Good)
C	(Average)
D	(Poor, but passing)
F	(Failure)
I	(Incomplete)
WP	(Withdraw without prejudice)
WF	(Withdraw failing)

The grade of "I" means that the student's work in the course is excusably incomplete (for example, because of illness), and additional time has been granted. A grade "I" automatically becomes "F" if the work is not completed during the subsequent semester for which the grade "I" was reported.

In computing a student's scholastic average, the following scale of quality points is used: A,4; B,3; C,2; D,1. The total number of quality points earned is divided by the total number of credit hours for which the student was registered, disregarding courses in which the grade of WP has been reported.

GRADE REPORTS:

Reports are sent out to parents or guardians at mid-semester and at the end of the semester. Self-supporting students over 21 years of age or married students, if they request it of the Registrar in writing, may have their reports sent to them instead of to their parents.

In November and April, mid-semester grade reports are due in the Registrar's Office for all students.

Students may on the following Wednesday obtain them from their advisor.

COURSE LOADS AND LIMITS:

The normal student load is sixteen semester hours. The minimum load for a full time student is twelve hours and the maximum eighteen hours. Only after a student has been in attendance at Fort Lewis for one semester and has shown marked ability, will he be permitted to take more than the maximum load, upon approval of the Registrar.

REPETITION OF COURSES:

If a student receives an "F" or "WF" in a required course, he must repeat the course. If a student fails he cannot take an advanced course in the same field until the course is taken again and passed.

If a student repeats a course, his official grade is the last one made. When a student has repeated a course in which he has previously obtained a passing grade, credit for the earlier grade on his record will be placed in parenthesis and hours attempted and grade points

earned by the earlier grade will not be counted in the computation of the student's scholastic average. All hours of "F", "WF", however, will be counted.

SCHOLASTIC REQUIREMENTS:

Students whose scholastic averages fall below 1.25 on their semester report for the first semester of their freshman year and below 1.50 cumulative averages in subsequent semesters are subject to academic probation for the succeeding semester by the Admissions Committee. The action will be noted on the student's permanent record card and his parents so notified.

A student who is placed on academic probation can return to good standing by attaining the minimum requirement at the end of a semester, and on his permanent record card the date and phrase "Reinstated to Good Standing" will be recorded.

If a student on academic probation fails to improve his scholastic average during the subsequent semester, he will be suspended for a semester after which he may be allowed to re-enter on probation, and the action so noted on his permanent record card.

GRADUATION:

Every sophomore must complete a petition for graduation and pay the graduation fee on registration day of the semester in which he expects to graduate. It will be the duty of the Curriculum Committee to approve each petition.

A student may petition the Curriculum Committee for a waiver in the requirements of a curriculum at this institution if these requirements do not conform to the requirements of the same or related curriculum of the college to which the student plans to transfer. A petition for a waiver must be approved by the end of the second week of the semester in which the student expects to graduate.

To graduate from Fort Lewis A & M College with a degree a student must:

1. Complete a minimum of 65 semester hours of work, including six hours of Freshman English or equivalent and four hours of physical education (unless officially excused), and one hour of College Adjustment, unless the latter is waived.
2. Have obtained a cumulative 2.0 quality point average ("C" average).
3. Satisfy the requirements of the curriculum selected.
4. Satisfy all the general and specific requirements of Fort Lewis A & M College which pertain to him, including the fulfillment of all financial responsibilities.
5. Have removed from his record all marks of deficiency in those subjects for which he expects credit for graduation.
6. Be in attendance at Baccalaureate and Commencement exercises (unless course requirements are completed at the end of the first semester or unless officially excused by the Dean of Faculty and has paid the Graduation in Absentia fee.)

The student may graduate under the catalog requirements for the year in which he registered at Fort Lewis A & M College for the

first time. If more than three years are required, he must fulfill the requirements of the current catalog. The student is solely responsible for knowing the rules and regulations concerning graduation requirements and for registering for the courses necessary to meet specifications for the degrees or certificate.

DEGREES—CERTIFICATE:

Fort Lewis A & M College grants the degrees: Associate of Arts, Associate of Science, Associate of Applied Science, and a Two-Year Certificate.

The Associate of Arts Degree or Associate of Science Degree is granted to students who meet the general requirements for graduation and the specific requirements of the lower division curriculum selected.

The Associate of Science Degree is conferred upon successful candidates in the curricula of General Agriculture, Animal Husbandry, Forestry, Engineering, Agricultural Engineering, Geology, Chemistry, Medical Technology, Pharmacy, Pre-Medicine, Pre-Veterinary Medicine, and General Arts and Science majors with 24 hours or more of science.

The Associates of Arts Degree is awarded upon successful completion of all other two-year academic curricula.

The Associate of Applied Science Degree is granted to students who complete the general requirements for graduation and specific requirements of the terminal education curriculum selected.

The Two-Year Certificate is granted to students having a 1.50 cumulative scholastic average and who have completed a minimum of 65 semester hours. In addition, students must meet the conditions as stated in points 4, 5, and 6 under Graduation on the preceding page.

GRADUATION WITH HONORS:

The requirements for degrees or certificates with honors are as follows:

With Highest Honors—grade point average of 3.90 or above.

With High Honors—grade point average of 3.75 but less than 3.90.

With Honors—grade point average of 3.30 but less than 3.75.

To be eligible for honors the students must have earned at least 30 semester hours in residence at Fort Lewis A & M College.

EXTENSION COURSES:

Extension courses are organized in communities in which there is a demand for such courses. Offerings depend on the number of students desiring the course, the availability of an instructor, and classroom facilities.

Credits for extension work toward the Associate of Arts Degree will apply only when the student has matriculated as a regular student to work toward the degree.

SUMMER MUSIC CAMP:

The Fort Lewis A & M College Music Camp is held each June on the campus. The purpose of the camp is to provide a highly stimulating musical experience for the junior and senior high school students of the area.

The Music Camp faculty is headed by men of national and regional reputation, and this specialized staff is augmented by outstanding high school directors of the basin.

The camp offers, at a nominal cost, a well-rounded program which includes concert band, orchestra, chorus, small ensembles, private lessons, and recreational activities.

A concert of the band, orchestra, and chorus terminates the Music Camp and is open to the public.

General Regulations

LATE REGISTRATION:

A student is required to pay a late registration fee for registering after the regularly appointed registration day. The student registering late will be required to make up all work he has missed. No student will be permitted to register for a normal class schedule after the second week of any semester.

Each day missed will be counted as an absence unless the work is made up before mid-semester.

CHANGE OF PROGRAM:

The college reserves the right to cancel a class if enrollment in that class is not deemed sufficient. A fee of \$1.00 will be charged to a student for any change in registration, the only exception being the College's acceptance of the responsibility for the change of program.

For any change of registration, a student must make arrangements with his advisor, the instructors concerned, and the Registrar.

ADDING A COURSE:

No new course for credit may be added to student's program after the first week of class sessions of each semester except with a written request and approval of the instructor whose new class is involved, and in no case later than the beginning of the third week of regular class sessions of each semester.

DROPPING A COURSE:

The proper dropping of courses is the responsibility of the individual student, not that of advisers, faculty, or administration. A course may be dropped without discredit by any student during the first two weeks of class sessions in any semester, except students in their first semester of college attendance who have until the end of the seventh week. After the expiration of these time limits, a grade of 'WF' will be reported in a course which is dropped unless the instructor feels that there are extenuating circumstances. If the student does not choose to go through the prescribed channels to drop a course, the grade will be 'F'.

A grade of 'F' will be given a student who drops a course within two weeks of the end of the semester unless the student appears before the Admissions Committee to show cause.

WITHDRAWAL FROM COLLEGE:

A student who desires to withdraw from college must first obtain the necessary withdrawal form from his adviser. Withdrawal will be permitted only after the student has obtained clearance from his class instructors, the librarian, Auxiliary Services Manager, the Registrar, and the Business Manager. For a student who is dropping all courses and withdrawing from College, the grade in each course will be designated as "WP" or "WF" as the case may be.

Students who withdraw from College without obtaining from his adviser the official withdrawal form, completing it, and returning it to the Business Office will receive a grade of "F" in all courses affected and forfeit all deposits.

STUDENT REGULATIONS:

Students with cars on the campus must register them at the Director of Student Affairs Office.

Hours have been established for the residence halls and students are expected to abide by them.

The College expects that students will conform to the recognized standards of order, morality, good conduct, and general satisfactory citizenship; that they will give serious attention to their college work and that they will not absent themselves unnecessarily from any class or exercise at which their attendance is required.

Students who are idle, disorderly in conduct or persistently negligent in their work are subject to disciplinary action and may be dropped from the College.

ATTENDANCE:

Students are expected to be in attendance for all registered classes and laboratories. Excessive absences may, by faculty action, be deemed sufficient grounds for dismissal of a student from the College.

EXAMINATION POLICY:

(1) A student absent from a examination without an excuse from the Dean of Faculty receives a grade of 0 for the examination.

(2) Every student is required to take each of his examinations at the scheduled time and place in order to receive credit.

(3) A student absent without an excuse from an announced hourly quiz or final examination will be charged the three dollar special examination fee if allowed to take a make up test by the Dean of Faculty.

TRANSCRIPTS:

When a student requests a transcript for the purpose of transferring to another college or university, his status is reported on it. A student whose scholastic average is above the minimum required by this College and has obtained the necessary clearances will receive on his transcript a notation to the effect that he is in "Good Standing." A student who is on probation, under suspension, or has been dismissed will have such information specified on the transcript as to whether the action was taken for academic or disciplinary reasons. Transcripts of credit cannot be issued until all accounts with the college are settled.

The first transcript is supplied free of charge. A fee of \$1.00 will be charged for all subsequent ones.



Hay Baling on the Experimental Farm Near Hesperus



Students Engage in Actual Farming Practice



"Aggies" on the Air



Cheerleaders



Chorus



Archery



The Homecoming Queen and Her Attendants



The Homecoming Dance



Students Relax in the Raman A. Miller Student Lounge



The Snack Bar Is a Favorite Gathering Place



Preparation for Exams in a Dorm



Women Students in Their Dorm



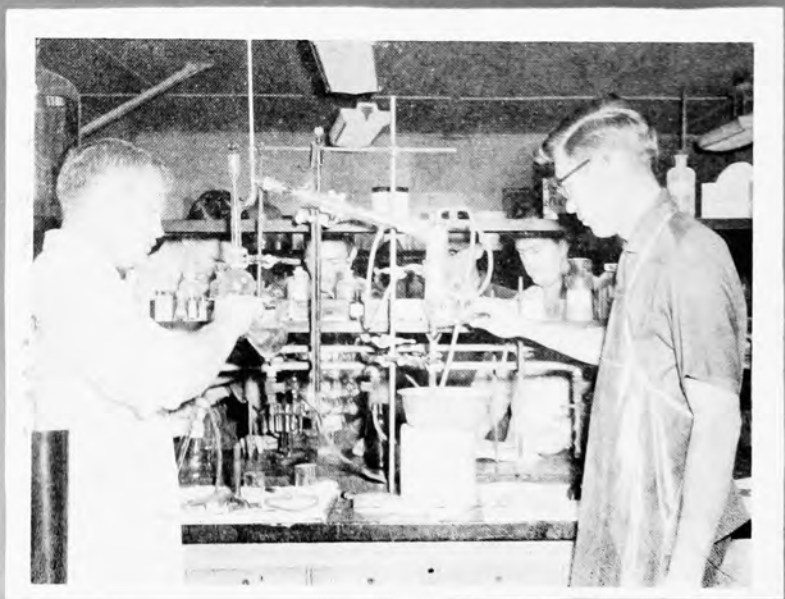
New Buildings Provide Housing for Married Students



Studying in the Library



Industrial Arts Class



Chemistry Laboratory

Numbering and Lettering System Used

Letter Abbreviations

A	Art
Ag	Agriculture
BS	Biological Science
B	Business
C	Chemistry
Ed	Education
E	Engineering
EL	English Language and Literature
F	Forestry
FL	Foreign Languages
G	Geology
HE	Home Economics
IA	Industrial Arts
M	Mathematics
Mu	Music
P	Philosophy
PE	Physical Education
Ph	Physics
SS	Social Studies

Numbering System

Terminal Course numbers are prefixed with	0
Lower Division Courses	1-99
Freshman Courses	1-49
Sophomore Courses	50-99

The letter "L", following a course number, indicates a laboratory period in conjunction with the particular course.

Meaning of Numerals

I, means First Semester; II, Second Semester. The number of credits which a specific subject carries and the number of clock hours spent in class each week are indicated as follows: (3-4) 5. The figure outside the parentheses indicates the number of credits per semester, the first figure inside the parentheses indicates the number of lectures or recitations each week, and the second figure inside the parentheses indicates the number of clock hours spent in laboratory each week.

Courses of Study

Lower Division college work is offered in the fields of Art, Agriculture, Forestry and Range Management, Engineering, and Pre-Professional programs. Within the field of Agriculture, students may major in General Agriculture or Animal Husbandry. In the Business field, a student may take work in Business Administration or Business Education. In Engineering, work may be taken in agricultural, civil, electrical, or mechanical engineering. Arts and Sciences offers specialization in chemistry, education, geology, home economics, industrial arts, music, physical education, pre-law, pre-medicine, pre-nursing, pre-pharmacy, pre-veterinary, and general arts and science. Terminal Vocational courses are offered for those students who are not planning to take a four year program. These courses are offered in the fields of Practical Agriculture, Secretarial Science, Engineering Technology, and Vocational Business Administration.

NOTE: Since course requirements in all colleges vary with time and demand, the administration of Fort Lewis A & M College reserves the right to alter the course listings where curriculum research deems it necessary.

ALL FRESHMEN WHO DO NOT MAKE A PASSING GRADE IN THE ENGLISH PLACEMENT EXAMINATION MUST TAKE REMEDIAL ENGLISH IN THE FIRST SEMESTER BEFORE THEY CAN TAKE FRESHMAN ENGLISH.

ALL ENTERING FRESHMEN ARE REQUIRED TO COMPLETE COLLEGE ADJUSTMENT WITH THE EXCEPTION OF VETERANS, MARRIED STUDENTS, AND TRANSFER STUDENTS WHO ARE ABLE TO SHOW AT LEAST ONE QUARTER OF TRANSFERRABLE WORK.

ALL STUDENTS ARE REQUIRED TO TAKE TWO YEARS OF PHYSICAL EDUCATION EXCEPT VETERANS, WOMEN STUDENTS OVER 25, OR STUDENTS WHO ARE EXCUSED FOR HEALTH REASONS UPON PRESENTATION TO THE DEAN OF FACULTY OF A WRITTEN REQUEST FROM THE COLLEGE PHYSICIAN.

Agriculture

I. FRESHMAN YEAR

First Semester

		Hours	Credits
Ag-11	Introductory Animal Husbandry	(2-3)	3
EL-3	Freshman English	(3-0)	3
BS-21	General Botany	(3-3)	4
C-11	General Inorganic Chemistry	(4-3)	5
Ed-1	College Adjustment	(1-0)	1
PE-1	Men's Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
Ag-1	Crop Production	(2-3)	3
BS-22	General Botany	(2-3)	3
C-12	General Inorganic and Organic Chemistry	(4-3)	5
Ag-16	Elements of Dairying	(2-3)	3
PE-2	Men's Physical Activity	(0-2)	1
			18

General Agriculture

II. SOPHOMORE YEAR

First Semester

		Hours	Credits
BS-75	General Bacteriology	(2-3)	3
Ag-80	General Poultry	(2-2)	3
	or		
Ag-54	General Horticulture	(2-2)	(3)
BS-9	Introduction to Zoology	(3-3)	4
SS-17	American Government	(3-0)	3
Ag-40	Farm Machinery	(2-3)	3
PE-51	Men's Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
BS-52	Applied Entomology	(2-3)	3
Ag-74	Feeds and Feeding	(2-3)	3
Ag-64	Irrigation Practice	(1-2)	2
Ag-60	Soils	(3-2)	4
Ag-78	Forage Crops	(2-3)	3
PE-52	Men's Physical Activity	(0-2)	1
			16
			68

Animal Husbandry

SOPHOMORE YEAR

First Semester

		Hours	Credits
Ag-80	General Poultry	(2-2)	3
	or		
Ag-54	General Horticulture	(2-2)	(3)
BS-9	Introduction to Zoology	(3-3)	4
Ag-67	Livestock Judging	(0-3)	1
SS-17	American Government	(3-0)	3
PE-51	Men's Physical Activity	(0-2)	1
Ag-91	Farm Management	(3-0)	3
Ag-69	Physiology of Farm Animals	(2-3)	3
			18

Second Semester

		Hours	Credits
Ag-74	Feeds and Feeding	(2-3)	3
M-10	College Algebra	(3-0)	3
EL-61	Speech	(2-0)	2
Ag-60	Soils	(3-2)	4
PE-52	Men's Physical Activity	(0-2)	1
	Electives		3
			17
			69

ART

The Art Department gives the student an opportunity to correlate the art of the past with materials and perspectives of contemporary art.

Courses are so arranged that the student may emerge as a professional in the world of art or as an interesting and understanding spectator.

In either case, the courses set forth below are designed to make life fuller and more meaningful for those who are sincere in their studies.

FRESHMAN YEAR

First Semester

		Hours	Credits
A-1	Art Interpretation	(2-2)	3
A-11	Basic Drawing	(3-3)	4
EL-3	Freshman English	(3-0)	3
A-12	*Social Studies	(3-0)	3
A-22	Physical Activity	(0-2)	1
EL-4	College Adjustment	(1-0)	1
			15

First Semester

		Hours	Credits
A-12	Fundamentals of Oil Painting	(2-3)	3
A-22	Ceramics	(0-6)	2
EL-4	Freshman English	(3-0)	3
	*Social Studies	(3-0)	3
	Physical Activity	(0-2)	1
	*Elective		4
			16

SOPHOMORE YEAR

First Semester

		Hours	Credits
A-51	Basic Sculpturing	(0-6)	3
EL-69	¹ Survey of English Literature	(3-0)	3
IA-31	Elements of Art Metal	(1-3)	2
	² Science with Laboratory	(3-3)	4
	Physical Activity	(0-2)	1
	*Elective		4
			17

Second Semester

		Hours	Credits
A-52	Sculpture	(0-6)	3
A-62	Art for Classroom Teachers	(2-2)	3
EL-70	¹ Survey of English Literature	(3-0)	3
	² Science with Laboratory	(3-3)	4
	Physical Activity	(0-2)	1
	*Elective		4
			17

*The following courses will satisfy the social studies requirement: United States History, Government, Intro. to Sociology, or Principles of Economics.

¹Introduction to Literature may be substituted for Survey of English Literature.

²Suggested Elective: Commercial Art, Foreign Language.

Business Administration

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
B-1	Introduction to Business	(3-0)	3
B-21	Principles of Accounting	(3-2)	4
B-7	Elementary Typewriting	(1-3)	2
PE-1, 39	Physical Activity	(0-2)	1
Ed-1	College Adjustment	(1-0)	1
	Laboratory Science or Psychology		3 or 4
			17 or 18

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
B-22	Principles of Accounting	(3-2)	4
B-9	Business Mathematics	(3-0)	3
SS-20	Economic Geography	(3-0)	3
PE-2, 40	Physical Activity	(0-2)	1
	Laboratory Science or Psychology		3 or 4
			17 or 18

SOPHOMORE YEAR

First Semester

		Hours	Credits
SS-55	Principles of Economics	(3-0)	3
M-10	College Algebra	(3-0)	3
B-61	Business Law	(3-0)	3
EL-21	Introduction to Literature	(3-0)	3
¹ B-54	Elementary Cost Accounting	(2-3)	(3)
PE-51, 89	Physical Activity	(0-2)	1
	² Laboratory Science		(4)
			16 or 17

Second Semester

		Hours	Credits
SS-56	Principles of Economics	(3-0)	3
B-62	Business Law	(3-0)	3
	Social Studies	(3-0)	3
B-44	Calculating Machines	(1-2)	2
B-60	Analysis of Financial Statements	(1-2)	2
PE-52, 90	Physical Activity	(0-2)	1
	² Laboratory Science		(4)
¹ EL-61	Speech	(2-0)	(2)
			16 or 18
			66 or 71

¹Students who have had one year of high school typewriting or equivalent are not required to take elementary typewriting.

²Students intending to transfer to the University of Colorado must have both biological and physical science and should, therefore, take a second laboratory science instead of Elementary Cost Accounting and Speech in the second semester.

Business Education**FRESHMAN YEAR****First Semester**

		Hours	Credits
EL-3	Freshman English	(3-0)	3
¹ B-1	Introduction to Business	(3-0)	3
¹ B-11	Stenography I (Required if not taken in High School)	(2-3)	(3)
B-7	Elementary Typewriting (Required if not taken in High School)	(1-3)	(2)
² B-13	Dictation and Transcription	(3-0)	3
Ed-71	Introduction to Education	(2-0)	2
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
	Electives		3
			16

Second Semester

		Hours	Credits
B-28	Business Communications	(3-0)	3
B-12	Stenography II	(2-3)	3
B-8	Advanced Typewriting	(1-3)	2
B-44	Calculating Machines	(1-2)	2
B-3	Business Mathematics	(3-0)	3
EL-61	Speech	(2-0)	2
PE-2, 40	Physical Activity	(0-2)	1
			16

SOPHOMORE YEAR**First Semester**

		Hours	Credits
B-31	Secretarial Procedures	(3-0)	3
B-21	Principles of Accounting	(3-2)	4
B-61	Business Law	(3-0)	3
Ed-53	General Psychology	(3-0)	3
SS-55	Principles of Economics	(3-0)	3
PE-51, 89	Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
B-22	Principles of Accounting	(3-2)	4
EL-62	Speech	(2-0)	2
³ SS-8	United States History	(3-0)	3
Ed-62	Educational Psychology	(3-0)	3
PE-52, 90	Physical Activity	(0-2)	1
	Electives		4
			17
			66

¹Required if not taken in High School.

²To be taken instead of Elementary Typewriting and Stenography I if student has high school credit for these courses.

³Other social studies courses may be substituted for United States History.

Chemistry

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
M-21	College Mathematics I	(5-0)	5
C-3	General Chemistry	(3-6)	5
¹ SS-7	United States History	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
			18

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
¹ SS-8	United States History	(3-0)	3
C-4	General Chemistry	(3-6)	5
M-22	College Mathematics II	(5-0)	5
PE-2, 40	Physical Activity	(0-2)	1
M-2	Slide Rule	(1-0)	1
			18

SOPHOMORE YEAR

First Semester

		Hours	Credits
M-57	Differential Calculus	(5-0)	5
² C-55	Quantitative Analysis	(2-8)	4
BS-3	General Biology	(3-3)	4
	¹ German		3-5
PE-51, 89	Physical Activity	(0-2)	1
			17 or 19

Second Semester

		Hours	Credits
M-58	Integral Calculus	(5-0)	5
BS-4	General Biology	(3-3)	4
² C-56	Quantitative Analysis	(2-8)	4
PE-52, 90	¹ German		3-5
	Physical Activity	(0-2)	1
			17 or 19
			70 or 74

¹The following courses may be substituted for United States History: Government or Introduction to Sociology.

²The following courses, upon approval of advisors, may be substituted for Biology: General Psychology and Personality and Social Adjustment or Zoology.

³Fundamentals of Organic Chemistry and Organic Chemistry may be substituted for Quantitative Analysis.

⁴If German will not be offered during the student's second year, interchange German and United States History or substitute some other social studies courses.

Elementary Education

For Secondary Education: See General Arts and Science.

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
	Science with Laboratory	(3-3)	4
¹ Mu-16	Introduction to Musical Literature	(2-0)	2
SS-7	United States History	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
			14

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
	Science with Laboratory	(3-3)	4
¹ Mu-17	Introduction to Musical Literature	(2-0)	2
SS-8	United States History	(3-0)	3
PE-18	Personal Living	(3-0)	3
PE-2, 40	Physical Activity	(0-2)	1
BS-36	Principles of Conservation	(2-0)	2
			18

SOPHOMORE YEAR

First Semester

		Hours	Credits
Ed-53	General Psychology	(3-0)	3
EL-61	Speech	(2-0)	2
Ed-71	Introduction to Education	(2-0)	2
P-41	Introduction to Philosophy	(3-0)	3
PE-51, 89	Physical Activity	(0-2)	1
	Humanities	(3-0)	3
Mu-3	Music for Elementary Teachers	(3-0)	3
M-1	Basic Mathematics	(3-0)	1
			18

Second Semester

		Hours	Credits
Ed-62	Educational Psychology	(3-0)	3
Ed-66	Child Psychology	(2-0)	2
EL-62	Speech	(2-0)	2
Ed-80	School Management	(2-0)	2
M-10	College Algebra	(3-0)	3
PE-52, 90	Physical Activity	(0-2)	1
	Electives		3
			16
			66

¹Other courses in the Humanities may be substituted for Introduction to Musical Literature.

Engineering

The customary divisions of the field of engineering are Agricultural, Civil, Electrical, and Mechanical. Agricultural engineers are prepared to apply engineering principles to such agricultural problems as irrigation, drainage, soil erosion control, and development of housing and handling facilities for all types of livestock. Civil Engineering comprises such activities as highway engineering, structural engineering, and sanitary engineering. Electrical engineering deals with the application of electricity, its transmission and utilization. Mechanical Engineering relates to the design, construction, and operation of machinery and the uses of machines in economic production, including such machinery as steam turbines, steam boilers, diesel engines, air-conditioning and refrigeration machinery, and new materials of construction. If orientation examinations indicate that a beginning student is inadequately prepared in mathematics he will be required to register for Intermediate Algebra and not be allowed to register for College Mathematics. This will mean that College Mathematics must be taken later.

FRESHMAN YEAR

First Semester		Hours	Credits
EL-3	Freshman English	(3-0)	3
M-21	College Mathematics I	(5-0)	5
E-1	Mechanical Drawing	(1-6)	3
C-3	General Chemistry	(3-6)	5
PE-1	Physical Activity	(0-2)	1
E-62	Engineering Problem Solution	(0-2)	1
			18

Second Semester		Hours	Credits
EL-4	Freshman English	(3-0)	3
E-2	Descriptive Geometry	(1-6)	3
M-22	College Mathematics II	(5-0)	5
C-4	General Chemistry	(3-6)	5
E-63	Engineering Problem Solution	(0-2)	1
PE-2	Physical Activity	(0-2)	1
			18

SOPHOMORE YEAR

First Semester		Hours	Credits
Ph-53	Engineering Physics	(3-4)	5
M-57	Differential Calculus	(5-0)	5
E-70	Mechanism	(2-3)	3
or			
E-51	Elementary Surveying	(2-3)	(3)
EI-21	Introduction to Literature	(3-0)	3
PE-51	Physical Activity	(0-2)	1
			17

Second Semester		Hours	Credits
Ph-54	Engineering Physics	(3-4)	5
M-58	Integral Calculus	(5-0)	5
I-64	Applied Mechanics	(3-0)	3
I-52	Advanced Surveying	(2-4)	3
or			
EI-22	Introduction to Literature	(3-0)	(3)
PI-52	Physical Activity	(0-2)	1
			17
			71

*Students intending to major in Aeronautical Engineering and Mechanical Engineering are to take Mechanism instead of Surveying.

Agricultural Engineering

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
C-3	General Chemistry	(3-6)	5
M-21	College Mathematics I	(5-0)	5
PE-1	Men's Physical Activity	(0-2)	1
E-62	Engineering Problem Solution	(0-2)	1
E-1	Mechanical Drawing	(1-6)	3
			18

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
M-22	College Mathematics II	(5-0)	5
E-63	Engineering Problem Solution	(0-2)	1
C-4	General Chemistry	(3-6)	5
PE-2	Men's Physical Activity	(0-2)	1
E-2	Descriptive Geometry	(1-6)	3
			18

SOPHOMORE YEAR

First Semester

		Hours	Credits
M-57	Differential Calculus	(5-0)	5
Ph-53	Engineering Physics	(3-4)	5
BS-21	General Botany	(3-3)	4
PE-51	Men's Physical Activity	(0-2)	1
EL-61	Speech	(2-0)	2
			17

Second Semester

		Hours	Credits
M-58	Integral Calculus	(5-0)	5
Ph-54	Engineering Physics	(3-4)	5
E-64	Applied Mechanics	(3-0)	3
PE-52	Men's Physical Activity	(0-2)	1
Ag-1	Crop Production	(2-2)	3
			17
			70

Forestry and Range Management

A college course in this field of specialization prepares qualified candidates for professional employment, either with various governmental agencies or with private enterprise, in forest management, forest industries, forest recreation, game management, range management, and grazing. Since the field is limited, colleges impose special requirements on students; reference is made to those set forth as typical in the Bulletin of the Colorado A & M College, Fort Collins, Colorado, including the requirements of practical field instruction during residence in an organized summer camp.

FRESHMAN YEAR

First Semester

		Hours	Credits
BS-21	General Botany	(3-3)	4
C-11	General Inorganic Chemistry	(4-3)	5
EL-3	Freshman English	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
F-1	Forestry And Allied Professions	(1-0)	1
M-10	College Algebra	(3-0)	3
PE-1	Men's Physical Activity	(0-2)	1
			18

Second Semester *

BS-22	General Botany	(2-3)	3
C-12	General Inorganic and Organic Chemistry	(4-3)	5
EL-4	Freshman English	(3-0)	3
M-12	Trigonometry	(3-0)	3
PE-2	Men's Physical Activity	(0-2)	1
BS-58	Elementary Systematic Botany	(3-3)	4
			19

SOPHOMORE YEAR

First Semester

		Hours	Credits
E-51	Elementary Surveying	(1-6)	3
G-11	General Geology	(3-3)	4
BS-9	Introduction to Zoology	(3-3)	4
PE-51	Men's Physical Activity	(0-2)	1
BS-59	Range and Forage Plants	(2-3)	3
	Electives		2
			17

Second Semester

F-10	Dendrology	(3-3)	4
Ag-60	Soils	(3-2)	4
PE-52	Men's Physical Activity	(0-2)	1
EL-61	Speech	(2-0)	2
BS-36	Principles of Conservation	(1-3)	2
F-2	Map Drafting and Reading	(0-3)	1
	Electives		3
			17

General Arts and Science

The General Arts and Science major offers students the opportunity to acquire a liberal education and to lay the foundation for professional or technical study.

As a basis for a liberal education, the curriculum for the General Arts and Science major is so arranged that students are expected to study the fundamentals of various broad fields of knowledge such as the biological sciences, the humanities, the physical sciences, and the social studies. This major also gives the student the opportunity to specialize in the fields of Pre-Law, Pre-Dentistry, Biology (General Biology, Botany, Bacteriology, Zoology), Secondary Education, English, Geology, Mathematics, Foreign Language, Physics, Psychology and Social Studies (History, Economics, Political Science, and Sociology).

All students majoring in General Arts and Science are required to complete 65 semester hours of work in the following fields of study in order to graduate.

College Adjustment	1
Biological Science	6 to 8
English Language	6
Humanities	6
Physical Education	4
Physical Sciences	6 to 8
Social Studies	6
¹ Foreign Languages	6 to 10
² Mathematics	6
	41 to 49
² Electives	16 to 24

¹Select either field of study.

²Electives are approved by the students' advisors.

Biological Sciences

Biology	Hours
BS-3, 4 General Biology	8
BS-9 Introduction to Zoology	4
BS-21, 22 General Botany	7
BS-36 Principles of Conservation	2
BS-28 Elementary Floriculture	4
Psychology	
Ed-53 General Psychology	3
Ed-54 Personality and Social Adjustment	3
Ed-62 Educational Psychology	3
Ed-66 Child Psychology	2

English Language

Freshman English	Hours
EL-3, 4 Freshman English	6
EL-51 Intermediate Composition	2
EL-12 Vocabulary Building	2
EL-35 News Writing	3
EL-36 Advanced News Writing	3
EL-61, 62 Speech	4
EL-75, 76 Radio Production	4

Humanities

Art			
A-1	Art Interpretation	3	
Literature			Hours
EL-21, 22	Introduction to Literature	6	
EL-69, 70	Survey of English Literature	6	
EL-24	Biography	2	
Foreign Languages			Hours
¹ FL-5, 6	First Year Spanish	10	
¹ FL-55, 56	Second Year Spanish	6	
² FL-15, 16	First Year German	10	
² FL-65, 66	Second Year German	6	
Music			Hours
Mu-15, 16	Introduction to Musical Literature	4	
Philosophy			
P-41	Introduction to Philosophy	3	

Mathematics

M-1	Basic Mathematics	1
M-2	Slide Rule	1
M-4	Solid Geometry	2
M-10	College Algebra	3
M-11	College Algebra	3
M-12	Trigonometry	3
M-13	Analytic Geometry	4
M-21, 22	College Mathematics	10

Physical Education

Freshman Physical Education			Hours
PE-1, 2	Men's Physical Activity	2	
PE-39, 40	Women's Physical Activity	2	
Sophomore Physical Education			
PE-51, 52	Men's Physical Activity	2	
PE-89, 90	Women's Physical Activity	2	

Physical Sciences

Chemistry			Hours
C-3, 4	General Chemistry	10	
C-11, 12	General Inorganic and Organic Chemistry	10	
Geology			
G-11, 12	General Geology	8	
Physics			
Ph-5, 6	The Physical Sciences	8	
Ph-53, 54	Engineering Physics	10	
Ph-51, 52	General Physics	8	

Social Studies

History			Hours
SS-3, 4	History of Western Civilization	6	
SS-7, 8	United States History	6	

¹Offered in alternate years, beginning with 1958-59.

²Offered in alternate years, 1959-60.

Geography			
SS-20	Economic Geography		3
SS-71	World Geography		3
SS-82	Physical Geography		3
Government			
SS-17	American Government		3
SS-18	State and Local Government		3
Economics			
SS-55, 56	Principles of Economics		6
Sociology			
SS-67, 68	Introduction of Sociology		6

SECONDARY EDUCATION

A student wishing to teach on the secondary level must major in General Arts and Science, and must include General Psychology, Educational Psychology, Introduction to Education, Classroom Management, and complete an approved number of hours in a particular subject matter field in place of electives.

PRE-LAW

Students must major in General Arts and Science to enter a school of law.

Pre-Law students must include as electives a year of accounting, government, economics, speech, and mathematics if any of these subjects are not used to satisfy the broad field requirements of General Arts and Science.

PRE-DENTAL

The requirements of the American Association of Dental Schools may be met by the General Arts and Science curriculum if biology, general chemistry, organic chemistry, and physics are included.

Geology**FRESHMAN YEAR****First Semester**

		Hours	Credits
EI-3	Freshman English	(3-0)	3
G-11	General Geology	(3-3)	4
C-3	General Chemistry	(3-6)	5
M-21	College Mathematics I	(5-0)	(5)
	or		
M-10	College Algebra	(3-0)	(3)
Ed-1	College Adjustment	(1-0)	1
PE-2	Men's Physical Activity	(0-2)	1
			<hr/>
			16-19

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
G-12	General Geology	(3-3)	4
C-4	General Chemistry	(3-6)	5
M-22	College Mathematics II	(5-0)	(5)
	or		
M-12	Trigonometry	(3-0)	(3)
PE-2	Men's Physical Activity	(0-2)	1
			<hr/>
			16-18

SOPHOMORE YEAR**First Semester**

		Hours	Credits
G-51	Mineralogy	(3-3)	4
Ph-51	General Physics	(3-3)	4
E-1	Mechanical Drawing	(1-6)	3
	Social Studies	(3-0)	3
	Electives		2
PE-51	Men's Physical Activity	(0-2)	1
			<hr/>
			17

Second Semester

		Hours	Credits
G-52	Mineralogy	(3-3)	4
Ph-52	General Physics	(3-3)	4
EL-61	Speech	(2-0)	2
	Social Studies	(3-0)	3
	Electives		3
PE-52	Men's Physical Activity	(0-2)	1
			<hr/>
			17
			<hr/>
			67

¹Students with high school credit in Mechanical Drawing could substitute other course work approved by Geology Instructor.

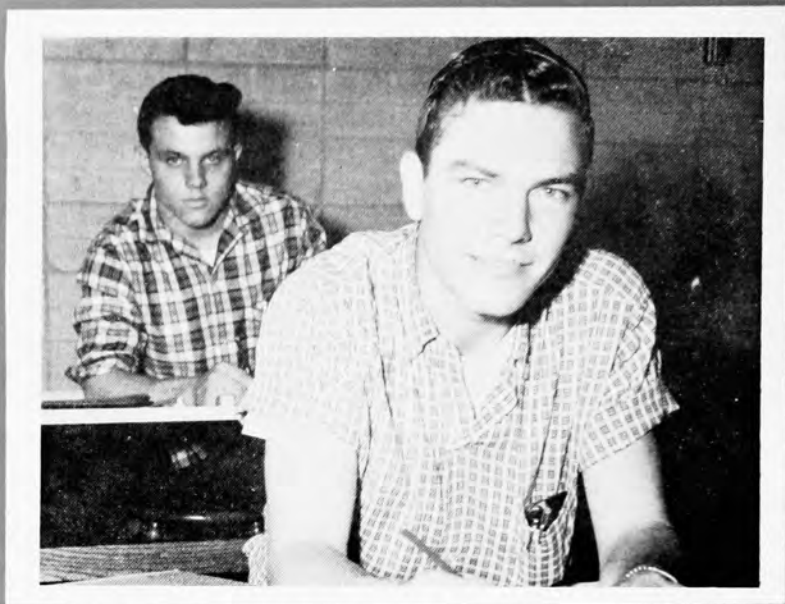
²Students considering graduate work in geology should elect a subject such as Quantitative Analysis, Calculus, Zoology or Biology, or German.



A Cooking Demonstration for Home Economics Majors



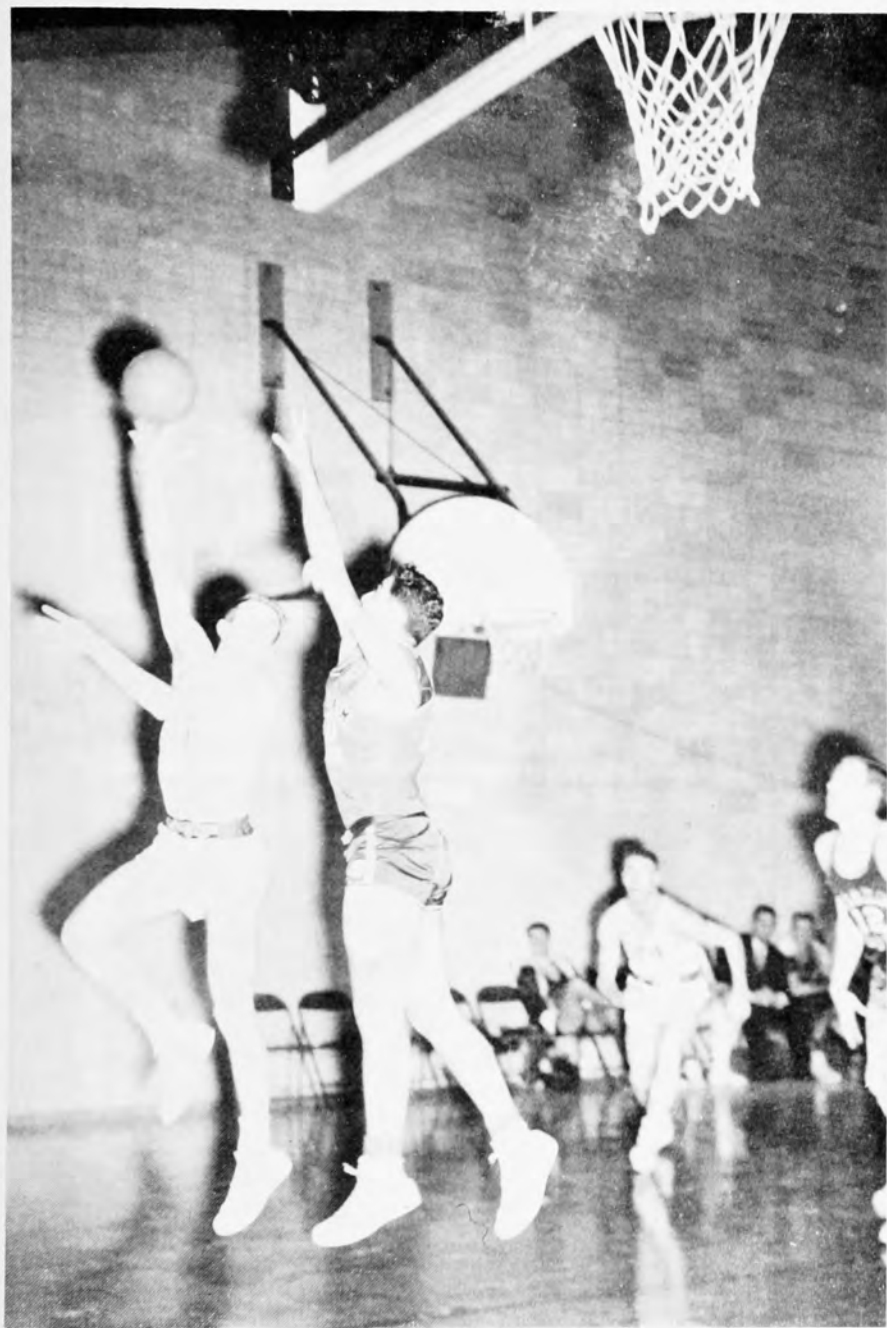
Sewing Class



Two Students in a Mechanical Drawing Class



Commencement



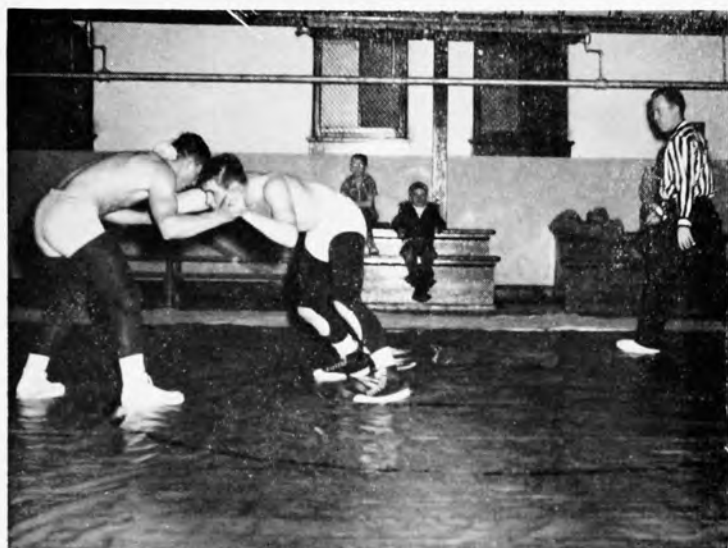
Basketball



Football



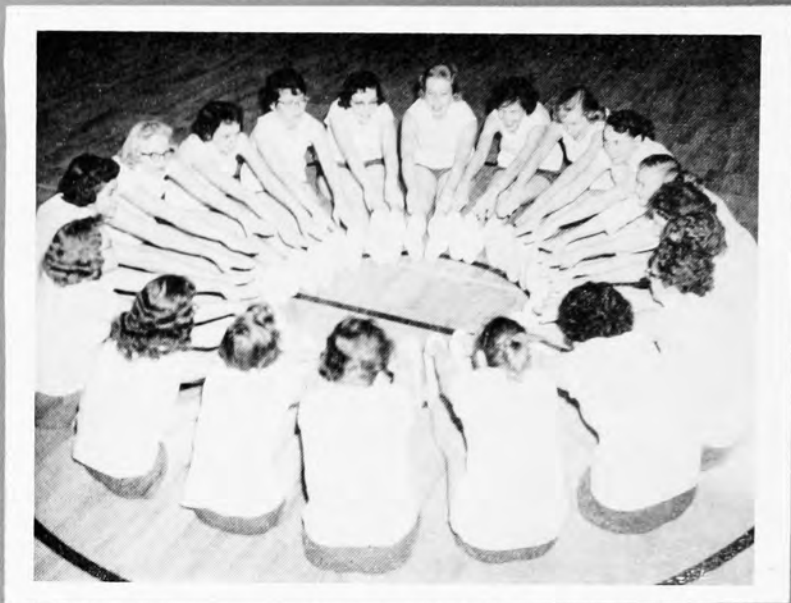
Night Football Game



Wrestling



Recreational Skiing



Women's Physical Education Class



A Women's Volleyball Class

Home Economics

FRESHMAN YEAR

First Semester

		Hours	Credits
A-1	Art Interpretation	(2-2)	3
HE-1	Introduction to Home Economics	(1-0)	1
EL-3	Freshman English	(3-0)	3
¹ BS-9	Introduction to Zoology	(3-3)	(4)
	or		
² C-11	General Inorganic Chemistry	(4-3)	(5)
Ed-1	College Adjustment	(1-0)	1
HE-5	Basic Clothing Selection and Construction	(2-3)	3
PE-39	Women's Physical Activity	(0-2)	1
			16-17

Second Semester

		Hours	Credits
HE-8	Elementary Textiles	(1-2)	2
EL-4	Freshman English	(3-0)	3
HE-6	Intermediate Clothing and Construction	(2-3)	3
¹ C-12	General Inorganic and Organic Chemistry	(4-3)	(5)
	or		
¹ BS-75	General Bacteriology	(2-3)	(3)
SS-68	Introduction to Sociology	(3-0)	(3)
PE-40	Women's Physical Activity	(0-2)	1
			15-17

SOPHOMORE YEAR

First Semester

		Hours	Credits
HE-71	House Planning	(2-2)	3
¹ Ed-53	General Psychology	(3-0)	(3)
¹ EL-61	Speech	(2-0)	(2)
HE-61	Effective Home Management	(2-0)	2
¹ HE-11	Elementary Foods	(1-4)	(3)
² HE-51	Food Selection and Preparation	(2-4)	(4)
² PE-89	Women's Physical Activity	(0-2)	1
² BS-9	Introduction to Zoology	(3-3)	(4)
	Electives		3
			17

Second Semester

		Hours	Credits
HE-72	Interior Decoration	(2-2)	3
¹ Ed-54	Personality and Social Adjustment	(3-0)	(3)
	or		
¹ Ed-62	Educational Psychology	(3-0)	(3)
¹ Ed-66	Child Psychology	(2-0)	(2)
¹ HE-12	Meal Planning	(1-4)	(3)
² HE-52	Advanced Food Preparation	(2-4)	(4)
² BS-75	General Bacteriology	(2-3)	(3)
PE-90	Women's Physical Activity	(0-2)	1
	¹ Electives		(4)
			15-16
			65

¹For those working for B.A. Degree in Home Economics: Suggested electives: Art, Radio Production, Business.

²For those working for B.S. Degree in Home Economics

Industrial Arts

Industrial Arts seeks to develop skill in the care and use of common tools and materials; knowledge and understanding of plans, prints, and drawings, safety attitudes and habits. Students will learn the basic processes involved in metal work, machines, drafting, woodworking, crafts and related subjects. The first two year's work is offered for those who wish to continue their work at a senior college and then teach Industrial Arts.

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
IA-1	Elementary Woodworking	(1-6)	3
E-1	Mechanical Drawing	(1-6)	3
Ed-1	College Adjustment	(1-0)	1
M-1	Basic Mathematics	(3-0)	1
IA-21	Basic Welding	(1-3)	2
PE-1	Men's Physical Activity	(0-2)	1
	Electives		2
			16

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
IA-10	Advanced Drafting	(1-6)	3
IA-2	Advanced Woodworking	(1-6)	3
IA-22	Advanced Welding	(1-3)	2
PE-90	First Aid	(2-0)	2
PE-2	Men's Physical Activity	(0-2)	1
	Electives		3
			17

SOPHOMORE YEAR

First Semester

		Hours	Credits
EL-61	Speech	(2-0)	2
Ed-53	General Psychology	(3-0)	3
IA-51	Machine Woodwork	(1-3)	2
IA-61	Machine Drawing	(1-6)	3
SS-55	Principles of Economics	(3-0)	3
PE-51	Men's Physical Activity	(0-2)	1
	Electives		3
			17

Second Semester

		Hours	Credits
Ed-62	Educational Psychology	(3-0)	3
I-1-62	Speech	(2-0)	2
IA-31	Elements of Art Metal	(1-3)	2
SS-56	Principles of Economics	(3-0)	3
PE-52	Men's Physical Activity	(0-2)	1
PE-18	Personal Living	(3-0)	3
	Electives		2
			16

Medical Technology

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
C-3	General Chemistry	(3-6)	5
M-10	College Algebra	(3-0)	3
BS-3	General Biology	(3-3)	4
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
BS-4	General Biology	(3-3)	4
EL-4	Freshman English	(3-0)	3
C-4	General Chemistry	(3-6)	5
M-12	Trigonometry	(3-0)	3
PE-2, 40	Physical Activity	(0-2)	1
			16

SOPHOMORE YEAR

First Semester

		Hours	Credits
C-65	Fundamentals of Organic Chemistry	(3-6)	5
C-55	Quantitative Analysis	(2-8)	4
¹ SS-67	Introduction to Sociology	(3-0)	3
² EL-69	Survey of English Literature	(3-0)	3
PE-51, 89	Physical Activity	(0-2)	1
			16

Second Semester

		Hours	Credits
C-66	Organic Chemistry	(3-6)	5
¹ SS-68	Introduction to Sociology	(3-0)	3
² EL-69	Survey of English Literature	(3-0)	3
PE-52, 90	Physical Activity	(0-2)	1
	Electives		4
			16

¹Other Social Studies courses may be substituted for Introduction to Sociology.

²Other Humanities courses may be substituted.

Music Education

The courses offered by the Department of Music are designed to meet the individual needs and interests of the student. For the student wishing to major in music the following curriculum is offered.

For the student who wishes to choose music as an elective, a wide variety of courses may be selected.

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
¹ Mu-33	Piano Class	(0-2)	1
Mu-39	Applied Music (Major)	(1-0)	3
Mu-1	Fundamental Theory	(2-2)	3
Mu-15	Introduction to Musical Literature	(2-0)	2
² Mu-21	Band	(0-3)	1
² Mu-27	Chorus	(0-3)	(1)
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
Mu-9	Woodwind Instruments	(0-2)	1
Mu-11	Introduction to Music Education	(2-0)	2
			18

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
¹ Mu-34	Piano Class	(0-2)	1
Mu-40	Applied Music (Major)	(1-0)	3
Mu-2	Fundamental Theory	(2-2)	3
Mu-16	Introduction to Musical Literature	(2-0)	2
² Mu-22	Band	(0-3)	1
² Mu-28	Chorus	(0-3)	(1)
PE-2, 40	Physical Activity	(0-2)	1
Mu-7	String Instruments	(0-2)	1
Mu-12	Elementary Conducting	(2-0)	2
			17

SOPHOMORE YEAR

First Semester

		Hours	Credits
Mu-51	Advanced Theory	(4-1)	4
¹ Mu-79	Piano Class	(0-2)	1
Mu-83	Applied Music (Major)	(1-0)	3
Ed-53	General Psychology	(3-0)	3
² Mu-71	Band	(0-3)	1
² Mu-77	Chorus	(0-3)	(1)
PE-51, 89	Physical Activity	(0-2)	1
Mu-8	Brass and Percussion Instruments	(0-2)	1
	Electives		2
			16

Second Semester

		Hours	Credits
Mu-52	Advanced Theory	(4-1)	4
¹ Mu-80	Piano Class	(0-2)	1
Mu-84	Applied Music (Major)	(1-0)	3
Ed-62	Educational Psychology	(3-0)	3
² Mu-72	Band	(0-3)	1
² Mu-78	Chorus	(0-3)	(1)
PE-52, 90	Physical Activity	(0-2)	1
	Electives		2
			15
			66

¹Piano is required of all music majors until sufficient proficiency has been acquired.

²Either course is required.

Pharmacy

The aim of this curriculum is to give the student the first two years of work leading toward a Five-Year combined course in Business and Pharmacy. Students wishing to earn a Bachelor of Science degree only in Pharmacy should plan to transfer at the end of the Freshman year, since they are required to have three years of residence in an approved School of Pharmacy.

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
C-3	General Chemistry	(3-6)	5
BS-3	General Biology	(3-3)	4
Ed-1	College Adjustment	(1-0)	1
M-10	College Algebra	(3-0)	3
PE-1, 39	Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
C-4	General Chemistry	(3-6)	5
BS-4	General Biology	(3-3)	4
M-12	Trigonometry	(3-0)	3
PE-2, 40	Physical Activity	(0-2)	1
			16

SOPHOMORE YEAR

First Semester

		Hours	Credits
C-65	Fundamentals of Organic Chemistry	(3-6)	5
SS-55	Principles of Economics	(3-0)	3
B-21	Principles of Accounting	(3-2)	4
¹ BS-75	General Bacteriology	(2-3)	(3)
¹ EL-21	Introduction to Literature	(3-0)	(3)
PE-51, 89	Physical Activity	(0-2)	1
			16

Second Semester

		Hours	Credits
C-66	Organic Chemistry	(3-6)	5
SS-56	Principles of Economics	(3-0)	3
EL-22	Introduction to Literature	(3-0)	3
B-22	Principles of Accounting	(3-2)	4
PE-52, 90	Physical Activity	(0-2)	1
			16
			65

¹Take either course.

Physical Education

The purposes of the physical education, health and recreational program, which includes intercollegiate athletics at Fort Lewis A & M College, are as follows:

1. To enable all students to gain physical skills, personal health, a sense of sportsmanship, and an awareness of the rules and techniques of all sports.
2. To teach the lower division courses which lead to a degree in Health, Recreation, and Physical Education.
3. To encourage a long range physical education program which may assure in the student a robust physical condition while in college and in later life.

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
BS-9	Introduction to Zoology	(3-3)	4
SS-7	United States History	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
PE-1, 39	Physical Activity	(0-2)	1
PE-9	Introduction to Physical Education, Health Education, and Recreation	(2-0)	2
	Electives		3

17

Second Semester

EL-4	Freshman English	(3-0)	3
SS-8	United States History	(3-0)	3
PE-18	Personal Living	(3-0)	3
PE-24	First Aid	(2-0)	2
PE-2, 40	Physical Activity	(0-2)	1
BS-66	Human Anatomy and Physiology	(3-3)	4

16

SOPHOMORE YEAR

First Semester

Ph-5	The Physical Sciences	(3-3)	4
EL-21	Introduction to Literature	(3-0)	3
Ed-53	General Psychology	(3-0)	3
PE-69	Coaching of Football	(2-0)	2
PE-51, 89	Men's Physical Activity	(0-2)	1
PE-11	History and Principles of Physical Education	(2-0)	2

15

Second Semester

Ed-54	Personality and Social Adjustment	(3-0)	3
PE-70	Coaching of Basketball	(2-0)	2
PE-74	Officiating in Sports	(2-0)	2
Ph-6	The Physical Sciences	(3-3)	4
EL-22	Introduction to Literature	(3-0)	3
PE-52, 90	Men's Physical Activity	(0-2)	1
	Elective or Educational Psychology		3

18

66

¹Other social studies courses may be substituted for United States History

²C-11 and C-12, Inorganic and Organic Chemistry, may be substituted for the physical sciences.

³Other humanities courses may be substituted for Introduction to Literature.

⁴Women's Physical Education majors must substitute Introduction to Education for Coaching of football.

⁵Women's Physical Education majors are to substitute Physical Education Activities in the Elementary School for Coaching of Basketball.

Pre-Medicine

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
C-3	General Chemistry	(3-6)	5
M-10	College Algebra	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
BS-3	General Biology	(3-3)	4
PE-1, 39	Physical Activity	(0-2)	1
			17

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
C-4	General Chemistry	(3-6)	5
M-12	Trigonometry	(3-0)	3
BS-4	General Biology	(3-3)	4
PE-2, 40	Physical Activity	(0-2)	1
			16

SOPHOMORE YEAR

First Semester

		Hours	Credits
Ph-51	General Physics	(3-3)	4
C-65	Fundamentals of Organic Chemistry	(3-6)	5
² EL-69	Survey of English Literature	(3-0)	3
¹ SS-3	History of Western Civilization	(3-0)	3
PE-51, 89	Physical Activity	(0-2)	1
			16

Second Semester

		Hours	Credits
Ph-52	General Physics	(3-3)	4
C-66	Organic Chemistry	(3-6)	5
² EL-70	Survey of English Literature	(3-0)	3
¹ SS-4	History of Western Civilization	(3-0)	3
EL-61	Speech	(2-0)	2
PE-52, 90	Physical Activity	(0-2)	1
			18
			67

¹Other social studies courses may be substituted for sociology.

²Other humanities courses may be substituted for Survey of English Literature.

Pre-Nursing

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
C-11	General Inorganic Chemistry	(4-3)	5
SS-67	Introduction to Sociology	(3-0)	3
¹ EL-69	Survey of English Literature	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
PE-39	Women's Physical Activity	(0-2)	1
	Electives		2
			18

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
C-12	Inorganic and Organic Chemistry	(4-3)	5
SS-68	Introduction to Sociology	(3-0)	3
¹ EL-70	Survey of English Literature	(3-0)	3
PE-40	Women's Physical Activity	(0-2)	1
	Electives		3
			18

¹Other humanities may be taken.

Students may transfer to most schools of nursing at the end of the freshman year. However, some schools require additional college work and therefore a second year may be arranged. The student should consult the bulletin of the school to which she is transferring in order to make sure that she meets the entrance requirements.

Pre-Veterinary**FRESHMAN YEAR****First Semester**

		Hours	Credits
PE-1, 89	General Botany	(3-3)	4
EL-3	Freshman English	(3-0)	3
C-3	General Chemistry	(3-6)	5
M-10	College Algebra	(3-0)	3
Ed-1	College Adjustment	(1-0)	1
PE-1, 89	Physical Activity	(0-2)	1
			<hr/> 17

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
C-4	General Chemistry	(3-6)	5
EL-12	Vocabulary Building	(2-0)	2
M-12	Trigonometry	(3-0)	3
PE-2, 40	Physical Activity	(0-2)	1
SS-18	State and Local Government	(3-0)	3
			<hr/> 17

SOPHOMORE YEAR**First Semester**

		Hours	Credits
¹ SS-3	History of Western Civilization	(3-0)	3
C-65	Fundamentals of Organic Chemistry	(3-6)	5
BS-9	Introduction to Zoology	(3-3)	4
PE-51, 89	Physical Activity	(0-2)	1
Ph-51	General Physics	(3-3)	4
			<hr/> 17

Second Semester

		Hours	Credits
¹ SS-4	History of Western Civilization	(3-0)	3
C-66	Organic Chemistry	(3-6)	5
Ph-52	General Physics	(3-3)	4
EL-70	Survey of English Literature	(3-0)	3
PE-52, 90	Physical Activity	(0-2)	1
			<hr/> 16
			<hr/> 67

¹Student may substitute sequences in Psychology or Economics.

Division of Terminal Education

Students who are not planning a four-year college course are offered the opportunity of taking two-year courses in Practical Agriculture, Vocational Business Administration, Secretarial Science, and Engineering Technology. These courses afford practical training which will be of immediate value to the students in obtaining jobs, running their own farms or ranches, or setting up and maintaining a business.

Practical Agriculture

This two-year short course in Practical Agriculture provides a scientific background for students who are interested in farming and ranching. A student may specialize either along the lines of ranch practices and cattle production or farming and crop production.

FRESHMAN YEAR

First Semester		Hours	Credits
EL-3	Freshman English	(3-0)	3
Ag-04	Ranch Practices	(1-2)	2
IA-1	Elementary Woodworking	(1-6)	3
Ed-1	College Adjustment	(1-0)	1
Ag-40	Farm Machinery	(2-3)	3
Ag-11	Introductory Animal Husbandry	(2-3)	3
PE-1	Men's Physical Activity	(0-2)	1
			16

Second Semester		Hours	Credits
EL-4	Freshman English	(3-0)	3
Ag-04	Ranch Practices	(1-3)	2
Ag-1	Crop Production	(2-3)	3
Ag-16	Elements of Dairying	(2-3)	3
IA-2	Advanced Woodworking	(1-6)	3
PE-2	Men's Physical Activity	(0-2)	1
IA-21	Basic Welding	(1-3)	2
			17

SOPHOMORE YEAR

First Semester		Hours	Credits
Ag-91	Farm Management	(3-0)	3
Ag-69	Physiology of Farm Animals	(2-3)	3
Ag-80	General Poultry or	(2-2)	(3)
Ag-54	General Horticulture	(2-2)	(3)
IA-31	Elements of Art Metal	(1-3)	2
PE-51	Physical Activity	(0-2)	1
Ag-67	Livestock Judging	(0-3)	1
	Electives		3
			16

Second Semester		Hours	Credits
Ag-78	Forage Crops	(2-3)	3
Ag-74	Feeds and Feeding	(2-2)	3
Ag-60	Soils	(3-2)	4
Ag-64	Irrigation Practice	(1-2)	2
BS-36	Principles of Conservation	(1-3)	2
PE-52	Men's Physical Activity	(0-2)	1
	Electives		2
			17
			66

*Courses in Ranch Practices may be taken only by students with no previous experience on a ranch or farm. These courses are for students who desire to specialize in Ranch and Cattle production.

Business

There are two terminal vocational courses offered in the field of business for those students who are not planning to take a full four-year course. These curricula have been planned with reference to the needs of the student.

One-year Courses: For the one-year business student who wishes to find employment with a minimum amount of time spent in preparation, it is possible to take only one year of either terminal curriculum. The first year courses will provide the same basic knowledge and training provided by any business school for employment as a secretary, stenographer, typist, or other clerical assistant. A college transcript can be supplied the student as evidence of taking one year of college business training.

However, it is desirable that the student studying under a terminal curriculum complete the full two-year course, as the second year of training will allow him to develop a more complete background of business knowledge. Upon completion of either of the two-year terminal curricula an Associate of Applied Science Degree will be granted.

Secretarial Science

FRESHMAN YEAR

First Semester

		Hours	Credits
EL-3	Freshman English	(3-0)	3
B-1	Introduction to Business	(3-0)	3
¹ B-11	Stenography I	(2-3)	3
² B-7	Elementary Typewriting	(1-3)	2
Ed-1	College Adjustment	(1-0)	1
B-3	Business Mathematics	(3-0)	3
PE-1, 39	Physical Activity	(0-2)	1
			16

Second Semester

B-28	Business Communications	(3-0)	3
B-12	Stenography II	(2-3)	3
B-8	Advanced Typewriting	(1-3)	2
B-44	Calculating Machines	(1-2)	2
PE-2, 40	Physical Activity	(0-2)	1
	Electives		5
			16

SOPHOMORE YEAR

First Semester

B-31	Secretarial Procedure	(3-0)	3
B-21	Principles of Accounting	(3-2)	4
B-13	Dictation and Transcription	(3-0)	3
EL-61	Speech	(2-0)	2
B-61	Business Law	(3-0)	3
PE-51, 89	Physical Activity	(0-2)	1
			16

Second Semester

B-42	Stenographic Machines	(2-3)	3
B-22	Principles of Accounting	(3-2)	4
B-58	Payroll Accounting	(1-2)	2
EL-62	Speech	(2-0)	2
B-62	Business Law	(3-0)	3
PE-52, 90	Physical Activity	(0-2)	1
	Electives		2
			17

65

¹Students passing a proficiency test may substitute a social science, a political science, or a biological science. Those students with one or two years of high school shorthand and typewriting may take Dictation and Transcription the first year providing they pass a proficiency test.

²Students having one year of typewriting in high school may substitute a two-hour course providing they pass a proficiency test.

Vocational Business Administration**FRESHMAN YEAR****First Semester**

		Hours	Credits
EL-3	Freshman English	(3-0)	3
B-21	Principles of Accounting	(3-2)	4
B-1	Introduction to Business	(3-0)	3
B-7	Elementary Typewriting	(1-3)	2
FD-1	College Adjustment	(1-0)	1
B-3	Business Mathematics	(3-0)	3
PE-1, 39	Physical Activity	(0-2)	1
			<hr/> 17

Second Semester

		Hours	Credits
B-28	Business Communications	(3-0)	3
B-22	Principles of Accounting	(3-2)	4
B-8	Advanced Typewriting	(1-3)	2
PE-2, 40	Physical Activity	(0-2)	1
FL-12	Vocabulary Building	(2-0)	2
SS-20	Economic Geography	(3-0)	3
	Elective		2
			<hr/> 17

SOPHOMORE YEAR**First Semester**

		Hours	Credits
B-61	Business Law	(3-0)	3
SS-55	Principles of Economics	(3-0)	3
EL-61	Speech	(2-0)	2
PE-1, 89	Physical Activity	(0-2)	1
B-54	Elementary Cost Accounting	(2-3)	3
	Electives		3
			<hr/> 15

Second Semester

		Hours	Credits
B-72	Income Tax Accounting	(3-0)	3
B-62	Business Law	(3-0)	3
EL-62	Speech	(2-0)	2
SS-56	Principles of Economics	(3-0)	3
PE 52, 90	Physical Activity	(0-2)	1
B-60	Analysis of Financial Statements	(1-2)	2
B-78	Introduction to Advertising	(3-0)	3
			<hr/> 17
			<hr/> 66

¹Intermediate Accounting may be substituted for Elementary Cost Accounting.

Engineering Technology**FRESHMAN YEAR****First Semester**

		Hours	Credits
E-1	Mechanical Drawing	(1-6)	3
EL-3	Freshman English	(3-0)	3
IA-21	Basic Welding	(1-6)	3
SS-17	American Government	(3-0)	3
M-10	College Algebra	(3-2)	3
PE-1	Men's Physical Activity	(0-2)	1
E-62	Engineering Problem Solution	(0-2)	1
			<hr/> 17

Second Semester

		Hours	Credits
EL-4	Freshman English	(3-0)	3
E-2	Descriptive Geometry	(1-6)	3
IA-10	Advanced Drafting	(1-6)	3
SS-18	State and Local Government	(3-0)	3
M-12	Trigonometry	(3-0)	3
E-63	Engineering Problem Solution	(0-2)	1
PE-2	Men's Physical Activity	(0-2)	1
			<hr/> 17

SOPHOMORE YEAR**First Semester**

		Hours	Credits
E-51	Elementary Surveying	(0-6)	3
B-21	Principles of Accounting	(3-2)	4
	or		
⁴ G-11	General Geology	(3-3)	(4)
EL-61	Speech	(2-0)	2
SS-55	Principles of Economics	(3-0)	3
Ph-51	General Physics	(3-3)	4
PE-51	Men's Physical Activity	(0-2)	1
			<hr/> 17

Second Semester

		Hours	Credits
E-52	Advanced Surveying	(0-6)	3
² B-22	Principles of Accounting	(3-2)	4
	or		
⁴ G-12	General Geology	(3-3)	(4)
EL-62	Speech	(2-0)	2
SS-56	Principles of Economics	(3-0)	3
Ph-52	General Physics	(3-3)	4
PE-52	Men's Physical Activity	(0-2)	1
			<hr/> 17

¹Other social studies courses may be substituted for government.

²Take either sequence upon adviser's approval.

Description of Courses

AGRICULTURE

- Ag-1 CROP PRODUCTION** **I (2-2)3**
A study of the principles of field crop production with special emphasis on cultural practices and botanical characteristics of crops grown throughout Colorado and the inter-mountain states.
- Ag-11 INTRODUCTORY ANIMAL HUSBANDRY** **I (2-3)3**
A study of commercial domestic livestock which includes cattle, sheep, horses, swine. This study is made on both the purebred and market classification.
- Ag-16 ELEMENTS OF DAIRYING** **II (2-3)3**
An introduction of the dairy industry. A brief study of the history and development of the industry, the composition—properties, and food value of milk. An introduction to the development and manufacture of dairy products.
- Ag-40 FARM MACHINERY** **I (2-3)3**
A theory, demonstration, and maintenance course which includes repair, operation, adjustment, and care of farm machinery.
- Ag-54 GENERAL HORTICULTURE** **I (2-2)3**
A general course covering the principles underlying the propagation, improvement, and marketing of horticultural crops.
Prerequisite: Botany.
- Ag-60 SOILS** **II (3-2)4**
A basic course dealing with the formation, properties, and management of soils with special attention given to soil conditions that affect moisture relations and elementary fertility analysis.
Prerequisite: Year of college chemistry or permission of instructor.
- Ag-64 IRRIGATION PRACTICE** **II (1-2)2**
A study of the systems used in irrigation, water supply, water measurement, methods of irrigation, soils in relation to irrigation, water efficiency, drainage, and the water requirements of different crops.
Prerequisite: Ag-1.
- Ag-67 LIVESTOCK JUDGING** **I (0-3)1**
Selection and judging of market and breeding classes of livestock.
- Ag-69 PHYSIOLOGY OF FARM ANIMALS** **I (3-0)3**
Fundamentals of animal and avian physiology.
Prerequisite: Animal Husbandry.
- Ag-74 FEEDS AND FEEDING** **II (2-2)3**
Feeds and their use in feeding livestock. Calculation of rations which meet requirements for maintenance, growth, and production.
Prerequisite: Ag-11
- Ag-78 FORAGE CROPS** **II (2-3)3**
Production, preservation, and value of principal hay, silage, and pasture crops.
Prerequisite: Crop Production

Ag-80 GENERAL POULTRY**I (2-2)3**

A general course dealing with the elementary principles of the feeding, breeding, incubation, rearing, housing and management of farm poultry.

Ag-91 FARM AND RANCH MANAGEMENT**I (3-0)3**

Size of farm, type and rates of production, combination of enterprises, labor and machinery efficiency are considered.

Ag-03 RANCH PRACTICES**I (1-3)2**

This course is designed to give students having no agricultural background actual experience in handling stock and agricultural equipment. A practical introduction to other agricultural activities.

Ag-04 RANCH PRACTICES**II (1-3)2**

A continuation of Ag-03.

ART**A-1 ART INTERPRETATION****I (2-2)3**

The course proposes to establish favorable attitudes to the arts fundamental to the needs of humanity. It will include the study of great works of art and the mundane as well as the mystic thinking that inspired the great men who produced them. Important periods and styles from prehistoric findings to present day art will be selected for study. Material for the course includes two one-hour periods of academic work consisting of lectures, panel discussions and audiovisual aids; and one two-hour laboratory period devoted to manipulation of art material.

This course is prerequisite to all other art courses except where it is necessary that it run concurrently with other beginning courses.

A-11 BASIC DRAWING**I (3-3)4**

A foundation course in art. Practice in elementary problems in free-hand drawing perspective, color and design, and basics of composition. Prerequisite: A-1 or concurrently, with A-1.

A-12 FUNDAMENTALS OF OIL PAINTING**II (2-3)3**

Students in oil painting will concentrate on drawing from life and still life, posing models and arranging still life drawings for paintings; selecting appropriate subject matter; preliminary sketching in media other than oil. Preliminary instruction in oil painting materials and techniques.

Prerequisite: A-11.

A-22 CERAMICS**II (0-6)2**

Ceramics deals with the treatment of clay bodies and plaster as applied to ceramics. The fundamental course includes practices in hand building, throwing and turning on the potters wheel; making models, casting, and decorating, firing, and glazing ceramic ware.

Prerequisite: A-1.

A-51 BASIC SCULPTURE**I (0-6)3**

A fundamental course in sculpture. The course consists of modeling in plastic materials and carving and shaping more rigid and resistant materials such as wood, metal and stone.

Prerequisites: A-1, A-11.

A-52 SCULPTURE**II (0-6)3**

A continuation of A-51.
Prerequisite: A-51.

A-62 ART FOR CLASSROOM TEACHERS**II (2-2)3**

This course is especially designed for the elementary and junior high school teacher with a view toward supplying the artistic needs of the child. The course also provides for the study of the place and purpose of art in the public school and community.
Prerequisite: A-1.

BIOLOGICAL SCIENCE**BS-3 GENERAL BIOLOGY****I (3-3)4**

This course includes the basic principles of living matter with particular emphasis on man, heredity, evolution.

BS-4 GENERAL BIOLOGY**II (3-3)4**

A brief survey of the botanical, zoological, and bacteriological sciences.
Prerequisite: BS-3.

BS-9 INTRODUCTION TO ZOOLOGY**I (3-3)4**

A study of the principles of zoology with reference to man. Demonstration and laboratory work are used to illustrate these principles.

BS-21 GENERAL BOTANY**I (3-3)4**

A study of the structure, function, and development of higher plants.

BS-22 GENERAL BOTANY**II (2-3)3**

The development of plants from simple to complex forms.
Prerequisite: BS-21.

BS-28 ELEMENTARY FLORICULTURE**II (3-3)4**

A general course designed for those students desiring a practical course in the botanical field. Includes basic principles of elementary landscaping and vegetable and flower growing, selection and utilization.
Prerequisite: BS-21 or special permission of the instructor.

BS-36 PRINCIPLES OF CONSERVATION**II (1-3)2**

A survey of the forest, range, wildlife, and other natural resources; policies and programs adopted for their protection and utilization. Open to all students.

BS-52 APPLIED ENTOMOLOGY**II (2-3)3**

Elementary anatomy and physiology of insects; the life histories, habits, and control recommendations for the more important insect pests.
Prerequisite: BS-3 or concurrently.

BS-58 ELEMENTARY SYSTEMATIC BOTANY**II (3-3)4**

Classification and systematic relationship of the flowering plants, including basic principles of plant collection and herbarium design.
Prerequisite: BS-21.

BS-66 HUMAN ANATOMY AND PHYSIOLOGY**II (3-3)4**

A lecture and demonstration course in the structure and function of the human body.
Prerequisite: BS-4, College Chemistry recommended.

BS-75 GENERAL BACTERIOLOGY**I (2-3)3**

An elementary study of bacteria with emphasis upon their role in everyday life.
Prerequisite: C-11, C-12. BS-3 recommended.

BUSINESS

- B-1 INTRODUCTION TO BUSINESS** **I (3-0)3**
A survey of business principles, problems, practices, and procedures. Provides a background for the more specialized business courses that follow—accounting, economics, marketing, finance and law. Furnishes the student with a vocabulary of business terms.
- B-3 BUSINESS MATHEMATICS** **I, II (3-0)3**
A course designed to meet the minimum needs of the students of business. Fundamental processes and their application to business situations are studied.
- B-7 ELEMENTARY TYPEWRITING** **I (1-3)2**
A beginning course in typewriting. Speed and accuracy in the operation of the typewriter by the touch system; business letters. Students who have had one year of typewriting in high school may not take this course for credit.
- B-8 ADVANCED TYPEWRITING** **II (1-3)2**
Advanced production typewriting, business letters, manuscripts, bibliographies, stensils, and masters.
Prerequisite: B-7, or meet minimum proficiency requirement.
- B-11 STENOGRAPHY I** **I (2-3)3**
This course comprises a study of the basic principles of Gregg Shorthand, dictation, and the building of speed. Students who have had one year of shorthand in high school may not take this course for credit.
- B-12 STENOGRAPHY II** **II (2-3)3**
Shorthand speed building; vocabulary building, and typewritten transcription.
Prerequisite: B-11.
- B-13 DICTATION AND TRANSCRIPTION** **I (3-0)3**
A dictation and transcription course with continued skill development. Office standards of speed, accuracy, and mailability required.
Prerequisite: One or two years of high school shorthand and one or two years of high school typewriting; or B-7 and B-12; or a proficiency test.
- B-21 PRINCIPLES OF ACCOUNTING** **I (3-2)4**
A study of the fundamentals and principles of accounting applicable to business ownership with emphasis on the single proprietorship type business.
Prerequisite: High School Bookkeeping is desirable.
- B-22 PRINCIPLES OF ACCOUNTING** **II (3-2)4**
A continuation of B-21, with emphasis on accounting for partnerships and corporations. Practice Set.
Prerequisite: B-21.
- B-28 BUSINESS COMMUNICATIONS** **II (3-0)3**
Analysis and writing of business letters including sales, credit, collection, adjustment, service, etc. Principles of report writing as applied to the types of reports commonly required in business.
Prerequisite: EL-3, B-7.

- B-31 SECRETARIAL PROCEDURE** **I (3-0)3**
Basic secretarial principles and procedures, including filing procedure, handling mail and telegrams, telephone techniques, receiving callers, business etiquette, and transportation and travel problems.
Prerequisite: B-7 or B-8.
- B-42 STENOGRAPHIC MACHINES** **II (2-3)3**
Latest developments in use of voicerecording machines, duplicating machines, and electric typewriter to develop minimum production skills.
Prerequisite: B-8 or equivalent.
- B-44 CALCULATING MACHINES** **II (1-2)2**
Latest developments in the uses of the key-driven, rotary, and listing calculators; and adding machines.
Prerequisite: B-3 or B-21.
- B-51 INTERMEDIATE ACCOUNTING** **I (2-3)3**
Preparation of statements for corporation, trading and manufacturing concerns, a study of problems of valuation.
Prerequisite: B-22.
- B-54 ELEMENTARY COST ACCOUNTING** **I (2-3)3**
A study of process and job order cost accounting with some attention to standard and distribution costs.
Prerequisite: B-22 or permission of instructor.
- B-60 ANALYSIS OF FINANCIAL STATEMENTS** **II (1-2)2**
Comparative analysis of the balance sheets and income statements of both large and small enterprises, significant ratios, break-even points, and charts. Preparation of statements of application and source of funds.
Prerequisite: B-22.
- B-61 BUSINESS LAW** **I (3-0)3**
Introduction to the study of business law followed by specific study in the subjects of creditors' powers, business torts, and contracts. Materials used on this course consist of text, cases, statute and business forms. These materials include the materials used in the subsequent business law courses in this series.
- B-62 BUSINESS LAW** **II (3-0)3**
Study of text, cases, and statutes in the subjects of agency, bailments, sales and negotiable instruments.
Prerequisite: B-61.
- B-72 INCOME TAX ACCOUNTING** **II (2-3)3**
A study of the provisions of federal income tax laws, and the regulations affecting the determination of net taxable income, and the preparations of tax returns for individuals, and corporations.
Prerequisite: B-21.
- B-78 INTRODUCTION TO ADVERTISING** **II (3-0)3**
Theory and functions of advertising, copy, media, and techniques of presentation.

CHEMISTRY

- C-3 GENERAL CHEMISTRY** **I (3-6)5**
Consists of lectures, demonstrations, quizzes, and laboratory covering

the fundamental principles of chemistry. The course is designed for those who will take additional courses in inorganic chemistry after the freshman year. Topics included are the composition of matter, chemical change, fundamentals of atomic structure, gas laws, chemical reactions, and calculations, together with experience in basic laboratory observations and techniques.

Prerequisites: High school algebra and physics, or consent of instructor. Students not having the prerequisites are to register for Section II.

C-4 GENERAL CHEMISTRY II (3-6)5

A continuation of C-3. The chemistry of some of the more important non-metals and metals is studied. Considerable emphasis is placed upon the relationships between atomic structure, the periodic table, and the properties of matter. A short introduction to organic chemistry is included. Quantitative aspects of chemistry are stressed. Qualitative analysis is used by the laboratory to teach the realities of equilibrium, the behavior of inorganic compounds, and the necessity for meticulous laboratory technique.

Prerequisite: C-3.

C-11 GENERAL INORGANIC CHEMISTRY I (4-3)5

A course in the basic principles of chemistry. This course is intended for students who do not intend to continue further studies of chemistry beyond one year. Consists of lectures, demonstration, quizzes, and laboratory exercises.

Prerequisite: None.

C-12 GENERAL INORGANIC AND ORGANIC CHEMISTRY II (4-3)5

About 1/3 of the semester is devoted to a further exploration of the realm of inorganic chemistry. The remainder of the semester consists of an introduction to the basic principles of organic chemistry. Consists of lecture, demonstrations, quizzes, and laboratory.

Prerequisite: C-11 or equivalent.

C-55 QUANTITATIVE ANALYSIS I (2-8)4

Lecture and laboratory. A survey of volumetric and gravimetric analysis including theory and calculations. This course alone will meet the analytical chemistry requirements of pre-medical, pre-dental, pre-veterinary, medical technology, or of other students not majoring in chemistry.

Prerequisites: C-4, and College Algebra, or consent of instructor.

C-56 QUANTITATIVE ANALYSIS II (2-8)4

A continuation of C-55 including volumetric and gravimetric precipitations, properties of precipitates, organic precipitants and electrolytic methods of analysis.

This course together with C-55 fulfills the analytical chemistry requirements of chemistry majors and others desiring a full year of analytical chemistry.

Prerequisite: C-55 with a grade of C or better.

C-65 FUNDAMENTALS OF ORGANIC CHEMISTRY I (3-6)5

Lecture and laboratory. A study of the simpler aliphatic and aromatic mono- and polyfunctional compounds. A brief survey of bio-chemistry including the chemistry and metabolisms of fats, carbohydrates, and proteins. Some natural products are studied. This course is intended to satisfy the first semester requirements for students who intend to take a full year or more of organic chemistry as well as those who need only one semester.

Prerequisite: C-4 or equivalent.

C-66 ORGANIC CHEMISTRY**II (3-6)5**

Lecture and laboratory. A continuation of C-65. The more complex polyfunctional aliphatic and aromatic compounds are studied including substances of biological or technical importance and some heterocyclic compounds.

Prerequisite: C-65.

EDUCATION**Ed-1 COLLEGE ADJUSTMENT****I (1-0)1**

An orientation program required of all freshman, as well as transfer students who have not had an equivalent course.

Consist of a series of lectures designed to acquaint students with personal adjustment to college life.

Ed-53 GENERAL PSYCHOLOGY**I (3-0)3**

Fundamental principles of psychology and their application to life, covering the topics of emotion, intelligence, attention, perception, learning, memory, thinking, and motivation.

Ed-54 PERSONALITY AND SOCIAL ADJUSTMENT**II (3-0)3**

Includes individual emotional adjustments and the various phases of inter-relationships between the individual and the group.

Prerequisite: Ed-53.

Ed-62 EDUCATIONAL PSYCHOLOGY**II (3-0)3**

The phases of psychology relating to the problems of teaching, with emphasis on growth, intelligence, individual differences, motivation, learning, heredity, and environment.

Prerequisite: Ed-53.

Ed-66 CHILD PSYCHOLOGY**II (2-0)2**

A study of the growth, adjustment, and abilities of children (from birth through elementary grades). Emphasis is placed upon guiding the development of normal children.

Prerequisite: Ed-53.

Ed-71 INTRODUCTION TO EDUCATION**(2-0)2**

An introductory course dealing with the profession of teaching, the development of a professional attitude, the study of the American education system, and the responsibilities of teachers, based on a broad understanding of the place of the school in society. Emphasis is placed on the personal, professional, and educational requirements in teaching and upon the opportunities, obligations, and compensations of teaching as a life work.

Ed-80 CLASSROOM MANAGEMENT**II (2-0)2**

Introduces the student to the problems of classroom management in the public schools, organization, and pupil guidance.

Ed-91 DRIVER EDUCATION AND TRAINING**2**

This course is only offered on special demand and with the approval of the Dean of Faculty who will make the necessary arrangements.

PART I

This part consists of a minimum of 18 hours of class recitations and discussions for which home reading and study have been assigned. The following topics are included: (1) history and development of driver education and training programs; (2) objectives of driver educa-

tion; (3) local, state, and national traffic-safety programs; (4) driver qualifications; (5) psychophysical testing; (6) curricular content of school courses in driver education and training; (7) construction, operation, and maintenance of automobiles; (8) traffic laws and driver licensing; (9) traffic engineering; (10) pedestrian education and protection; (11) equipment for teaching driver education; (12) liability, costs, and insurance; (13) planning driver education as a part of the daily program of the high school; (14) public relations; (15) records and reports; and (16) visual aids in teaching driver education.

PART II

This part consists of a minimum of 20 hours devoted to the following: (1) behind-the-wheel instruction; (2) demonstrations and student-teacher practice in the car; and (3) road tests in traffic. Home reading and study are required in preparation for these projects.

Prerequisite: License to drive a car.

ENGINEERING

- E-1 MECHANICAL DRAWING** **I (1-6)3**
 Care and use of instruments, applied geometry, isometric and orthographic projections, auxiliary projections, pictorial representations and perspectives, with special emphasis on lettering.
- E-2 DESCRIPTIVE GEOMETRY** **II (1-6)3**
 The graphical representations of points, lines, and geometrical magnitudes in space.
 Prerequisite: E-1.
- E-51 ELEMENTARY SURVEYING** **I (0-6)3**
 Care and use of surveying instruments. Solutions of surveying problems, plane surveying methods of measuring distances, angles and elevations.
 Prerequisite: M-10 or M-21, M-22.
- E-52 ADVANCED SURVEYING** **II (0-6)3**
 Geodetic surveying methods, astronomical observations, topographic surveys. Hydrographic surveys used in irrigation and drainage. Field practices in these branches.
 Prerequisite: E-51.
- E-62 ENGINEERING PROBLEM SOLUTION** **I (0-2)1**
 A survey of the field of engineering. Instruction in the use of the slide rule. Supervised work emphasizing proper methods of work and correct form.
 Prerequisite: M-21.
- E-63 ENGINEERING PROBLEM SOLUTION** **II (0-2)1**
 A continuation of E-62. Formal and computational solution of problems in engineering.
 Prerequisite: E-62.
- E-64 APPLIED MECHANICS (STATICS)** **II (3-0)3**
 Co-planar, non-planar, concurrent and non-concurrent force systems. Centroids and moments of inertia.
 Prerequisite: M-21, M-22, Ph-53.

E-70 MECHANISM**I (2-3)3**

Elements of machinery: motion-transmitting parts such as gears, belts, link work, etc. Includes three hours laboratory per week.
Prerequisite: E-2 or permission of instructor.

ENGLISH LANGUAGE AND LITERATURE**EL-1 REMEDIAL ENGLISH****I, II (3-0)1**

Required of those students who need it on the basis of their achievement in the placement test. (One hour credit, but it is considered as a three-hour course for all other purposes, including tuition). This course is required of those students who do not make a satisfactory score in the Reading Orientation Examination.

EL-3 FRESHMAN ENGLISH**I, II (3-0)3**

Required of freshmen. Practice in both written and oral composition. The course is designed to develop correct language habits and to train the student in logical thought and effective expression.
Prerequisite: EL-1 or passing score in the English achievement test.

EL-4 FRESHMAN ENGLISH**I, II (3-0)3**

Required of freshmen. A continuation of EL-3. This course also trains the student in collecting, organizing, and presenting material in larger units of composition.
Prerequisite: EL-3.

EL-12 VOCABULARY BUILDING**II (2-0)2**

A study of words, with the object of increasing the vocabulary and gaining more accurate meanings for less common words.

EL-21 INTRODUCTION TO LITERATURE**I (3-0)3**

Reading and analysis of short stories, novels, and non-fiction prose.

EL-22 INTRODUCTION TO LITERATURE**II (3-0)3**

Reading and analysis of poems and plays.

EL-24 BIOGRAPHY**II (2-0)2**

Lives of great men, ancient and modern, analyzed as literature and patterns of living.

EL-35 NEWS WRITING**I (2-3)3**

This is basic course in news gathering and writing. Emphasis is placed on the proper interviewing procedure, news sources, and news values. Students will write for publication in the college newspaper. Lecture, laboratory and individual conferences may be arranged.

EL-36 ADVANCED NEWS WRITING**II (2-3)3**

This is an advanced course in which practical experience in writing publicity is gained by preparing copy for both school and local newspapers. Emphasis is also placed on the reporting and interpretation of special news, including business, education, labor, agriculture, and science. Lecture and Laboratory.

Prerequisite: EL-35.

EL-51 INTERMEDIATE COMPOSITION**I (2-0)2**

Basic techniques of exposition and imaginative writing. Various forms and styles are explored.

Prerequisite: Freshman English and permission of instructor.

- EL-61 SPEECH** **I, II (2-0)2**
 A general introductory course in public speaking planned to give fundamental theory and practice in speech preparation and delivery.
- EL-62 SPEECH** **I, II (2-0)2**
 A continuation of EL-61.
 Prerequisite: EL-61 or equivalent.
- EL-69 SURVEY OF ENGLISH LITERATURE** **I (3-0)3**
 Chronological study of the greater figures and forces in the main stream of English Literature from the beginning to 1800.
- EL-70 SURVEY OF ENGLISH LITERATURE** **II (3-0)3**
 Continuation of EL-69.
- EL-75 RADIO PRODUCTION** **I (1-2)2**
 A general introductory course. Training in microphone technique, tape recordings, and radio speaking. Experience is gained in standard radio station procedures.
- EL-76 RADIO PRODUCTION** **II (1-2)2**
 A continuation of EL-75. Activities include radio acting, writing, and directing. Student management of productions is encouraged.

FORESTRY

- F-1 FORESTRY AND ALLIED PROFESSIONS** **I (1-0)1**
 Professional responsibilities, advantages, and disadvantages. Job characteristics. Training and education requirements.
- F-2 MAP DRAFTING AND READING** **II (0-3)1**
 Lettering and use of simple drafting equipment. Map interpretation.
- F-10 DENDROLOGY** **II (3-3)4**
 Classification, identification, silvical characteristics, economic importance and distribution of the broad leaved and coniferous trees of the United States.
- F-59 RANGE AND FORAGE PLANTS** **I (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: BS-58.

FOREIGN LANGUAGES

Note: Students having high school credit for two years of foreign language may not take the first year of the same language in college for credit.

- FL-5 FIRST YEAR SPANISH** **I (5-0)5**
 A course in grammar, prose composition, reading, and conversation.
- FL-6 FIRST YEAR SPANISH** **II (5-0)5**
 Further study of Spanish, grammar with emphasis on reading, composition, and conversation.
 Prerequisite: FL-5.

- FL-15 FIRST YEAR GERMAN** **I (5-0)5**
A course in grammar, pronunciation, and reading.
- FL-16 FIRST YEAR GERMAN** **II (5-0)5**
Continuation of FL-15.
Prerequisite: FL-15.
- FL-55 SECOND YEAR SPANISH** **I (3-0)3**
A course in second-year Spanish with emphasis on reading and conversation.
Prerequisite: FL-6.
- FL-56 SCEOND YEAR SPANISH** **II (3-0)3**
Continuation of FL-55.
Prerequisite: FL-55.
- FL-65 SECOND YEAR GERMAN** **I (3-0)3**
A continuation of FL-16 with emphasis on reading and conversation.
Prerequisite: FL-16.
- FL-66 SECOND YEAR GERMAN** **II (3-0)3**
A continuation of FL-65.
Prerequisite: FL-65.

GEOLOGY

- G-11 GENERAL GEOLOGY** **I (3-3)4**
A general introduction to physical and historical geology. For students majoring or minoring in geology, and for other students who wish to have a total of eight hours in introductory geology.
- G-12 GENERAL GEOLOGY** **II (3-3)4**
Continuation of G-11.
Prerequisite: G-11.
- G-51 MINERALOGY** **I (3-3)4**
A comprehensive course in the field of mineralogy. The student is introduced to the more important fields of mineralogy, including crystallography, systematic mineralogy, chemical and physical mineralogy. Lectures are supplemented by laboratory determination of minerals by physical and chemical tests, and by study of collections.
Prerequisite: General Geology and General Chemsitry, one of which may be taken concurrently by permission of instructor.
- G-52 MINERALOGY** **II (3-3)4**
A continuation of G-52 completing the study of minerals and includes a unit on hand specimen identification of rocks.
Prerequisite: G-51.

HOME ECONOMICS

- HE-1 INTRODUCTION TO HOME ECONOMICS** **I (1-0)1**
An introductory survey of the home economics field as a major course of study in college and as a possibility for future employment.
- HE-5 BASIC CLOTHING SELECTION AND CONSTRUCTION** **I (2-3)3**
Fundamental construction processes applied to the making of clothing by the study of fashions, style trends, through the use of the commer-

cial pattern. The study of proper costume selection for the individual, through the study of principles of design and art.

HE-6 INTERMEDIATE CLOTHING AND CONSTRUCTION II (2-3)3

Sewing construction processes applied to commercial patterns, with emphasis on fitting, and use of basic patterns. Study of color as applied to selection of clothing, and wardrobe planning.

HE-8 ELEMENTARY TEXTILES II (1-2)2

Study of the different processes and fibers used in making cloth. Simple laboratory experiments in yarn identification. Emphasis on consumer buying and proper care of various items made from different yarns.

HE-11 ELEMENTARY FOODS I (1-4)3

Emphasis on fundamental processes of cooking and marketing. Training in the correct processes involved in preparation of nutritious foods. Elementary nutrition.

HE-12 MEAL PLANNING II (1-4)3

Provides practice in, and study of planning and cooking a complete meal. Study of various types of meals usable for entertaining, and table service thereto.

Prerequisite: HE-11.

HE-51 FOOD SELECTION AND PREPARATION I (2-4)4

A study of and experimentation with various cookery processes, tied in with nutrition, digestion and absorption of the different foods studied.

Prerequisite C-11 and C-12.

HE-52 ADVANCED FOOD PREPARATION II (2-4)4

A continuation of HE-51.

Prerequisite HE-51.

HE-61 EFFECTIVE HOME MANAGEMENT I (2-0)2

Time, energy, and money management. Family finance, budget-making, short cuts in the home.

HE-71 HOUSE PLANNING I (2-2)3

Types of home plans, material, construction practices. Floor plans based on the needs and desires of the family.

HE-72 INTERIOR DECORATION II (2-2)3

Basic course in decorating and furnishings of a home. The making of draperies, slip covers, upholstering, and curtains. The use of color and the effect it has on the house and the people who live in it.

Prerequisite: HE-71.

INDUSTRIAL ARTS

IA-1 ELEMENTARY WOODWORKING I (1-6)3

Begins with the fundamental processes in hand woodworking and carpentry through the layout and construction of simple projects. Includes the care, use, and maintenance of hand tools.

IA-2 ADVANCED WOODWORKING II (1-6)3

Continuation of IA-1. Bench woodworking. The use of hand tools in the construction of more complex projects. Includes the identification of woods, and attention to finishing processes.

- IA-10 ADVANCED DRAFTING** **II (1-6)3**
 Practical problems in drafting and planning. Includes pencil tracing, inking, cabinet drawing. Instruction in blueprinting and other methods of duplication.
 Prerequisite: E-1.
- IA-21 BASIC WELDING** **I, II (1-3)2**
 Involves the fundamental uses and methods of operating oxacetylene welding equipment.
- IA-22 ADVANCED GAS AND ELECTRIC WELDING** **I, II (1-3)2**
 Advanced course in gas and electric welding which includes flat, vertical, and overhead welding, cast iron welding and brazing, and uses of new materials.
 Prerequisite: IA-21.
- IA-31 ELEMENTS OF ART METAL** **I, II (1-3)2**
 Elementary course in art metal including tooling of aluminum and copper, etching, bowl and tray construction, hand and soft soldering, and an introduction to lapidary work.
- IA-51 MACHINE WOODWORK** **I (1-3)2**
 Practice in the basic operating principles of woodworking machinery.
 Prerequisite: IA-2.
- IA-61 MACHINE DRAWING** **I (1-6)3**
 Machine layout and pictorial representation.
 Prerequisite: IA-10.

MATHEMATICS

- M-1 BASIC MATHEMATICS** **I (3-0)1**
 Review of the basic operations of arithmetic, percentages, square root, cube root, and elementary intermediate algebra.
- M-2 SLIDE RULE MATHEMATICS** **II (1-0)1**
 Open to all students of the college. Instruction in the basic principles and use of the slide rule.
- M-4 SOLID GEOMETRY** **II (2-0)2**
 A study of the properties and theorems pertaining to solids and their application. No credit allowed those students who have had high school solid geometry.
 Prerequisite: High School Plane Geometry.
- M-10 COLLEGE ALGEBRA** **I, II (3-0)3**
 Review of elementary algebra, linear and quadratic equations, variation, linear and quadratic systems, exponents, functions and graphs, logarithms, some statistics.
 Prerequisite: Passing score on placement test or M-1.
- M-11 COLLEGE ALGEBRA** **II (3-0)3**
 Advanced graphing, natural logarithms, complex numbers, theory of equations, arithmetic, and geometric progression, binominal theorem, introduction to matrices, and determinants. For mathematics and science majors.
 Prerequisite: M-10 or consent of instructor.
- M-12 TRIGONOMETRY** **I, II (3-0)3**
 Trigonometric functions of acute angles, trigonometric functions of the

general angle, review of logarithms, solutions of right and oblique triangles, trigonometric functions of two angles, reduction formulas, trigonometric equations.

Prerequisites: M-10, or M-11.

M-13 ANALYTIC GEOMETRY II (4-0)4

Straight lines, conic sections, parametric equations and higher plane curves. This progresses to transformation of axes, use of curves, and an introduction to solid analytic geometry with emphasis on application for the calculus.

Prerequisites: M-11 and M-12 or M-21.

M-21 COLLEGE MATHEMATICS I I (5-0)5

A course designed for engineering students, mathematics and science majors.

Coordinates and loci, functions and graphs, linear equations and systems, variation, quadratic equations and systems, locus of an equation, binomial theorem, logarithms, theory of equations, radian measure, angles, trigonometric functions, and solving right triangles.

Prerequisite: 1½ units of high school algebra, 1 unit plane geometry.

M-22 COLLEGE MATHEMATICS II II (5-0)5

Properties of trigonometric functions, fundamental relations, trigonometric identities and equations, functions of two angles, solution of oblique triangles, inverse trigonometric functions, polar coordinates, complex numbers. The straight line, locus problems, transformation of coordinates, the circle, tangents, conic sections, coordinates, distances, directions, equations, and loci of space.

Prerequisite: M-21.

M-57 DIFFERENTIAL CALCULUS I (5-0)5

Variables and functions, theory of limits, derivative, differentiation of algebraic functions and applications, the inverse of differentiation, differentiation of transcendental functions, and law of the mean.

Prerequisites: M-21, M-22.

M-58 INTEGRAL CALCULUS II (5-0)5

The definite integral, techniques of integration, geometrical applications of definite integrals. Further applications of differentials, limits, physical applications of definite integrals, infinite series, partial differentiation, curves and surfaces in space, double integrals.

Prerequisite: M-57.

MUSIC

Mu-1 FUNDAMENTAL THEORY I (2-2)3

An integrated course in music fundamentals, theory, ear training, sight singing, and keyboard.

Mu-2 FUNDAMENTAL THEORY II (2-2)3

A continuation of Mu-1 including traditional tertian harmony, both written and keyboard. Four part writing using primary and secondary triads, dominant seventh chords and their inversions.

Prerequisite: Mu-1.

Mu-3 MUSIC FOR ELEMENTARY TEACHERS I (3-0)3

A course in the fundamentals of music designed for the prospective classroom teacher in the elementary school.

- Mu-7 STRING INSTRUMENTS** **I (0-2)1**
Class lessons in a playing knowledge of all string instruments.
- Mu-8 BRASS AND PERCUSSION INSTRUMENTS** **II (0-2)1**
Class lessons in a playing knowledge of all brass and percussion instruments.
- Mu-9 WOODWIND INSTRUMENTS** **I (0-2)1**
Class lessons in a playing knowledge of woodwind instruments.
- Mu-11 INTRODUCTION TO MUSIC EDUCATION** **I (2-0)2**
Orientation to the music education program in the public schools. Visitation and observation of public school music.
- Mu-12 ELEMENTARY CONDUCTING** **II (2-0)2**
An introductory study to conducting.
- Mu-15 INTRODUCTION TO MUSICAL LITERATURE** **I (2-0)2**
A survey course designed to acquaint the student with the masterpieces of musical literature, principles of musical form and style.
- Mu-16 INTRODUCTION TO MUSICAL LITERATURE** **II (2-0)2**
A continuation of Mu-15.
- Mu-21, 22, 71, 72 BAND** **I, II (0-3)1**
Open to all students who are proficient in playing a band instrument. Attendance at all public performances is required.
- Mu-27, 28, 77, 78 CHORUS** **I, II (0-3)1**
Open to all students who can and wish to sing. Attendance at all public performances is required.
- Mu-33, 34, 79, 80 PIANO CLASS** **I, II (0-2)1**
Class instruction in a playing knowledge of the piano. Open to music majors only.
- Mu-51 ADVANCED THEORY** **I (4-1)4**
A continuation of Mu-2 including secondary sevenths, sequences modulation to relative tonalities, and non-essential tones. Prerequisite: Mu-2.
- Mu-52 ADVANCED THEORY** **II (4-1)4**
A continuation of Mu-51 with further expansion of the chordal material. Prerequisite: Mu-51.

APPLIED MUSIC

Private lessons are available in clarinet, oboe, flute, bassoon, piano, trumpet, trombone, baritone, tuba, french horn, violin, viola, cello, and string bass, to all students at any level of instruction.

- Mu-37, 38, 81, 82 APPLIED MUSIC** **I, II (1-2)01**
A half-hour private lesson per week. Open to all students. Special fee \$22.50 per semester.
- Mu-39, 40, 83, 84 APPLIED MUSIC** **I, II (1-0)3**
A one hour private lesson per week. Open to all students, but designed primarily for the music major. Special fee \$37.50 per semester.

PHILOSOPHY**P-41 INTRODUCTION TO PHILOSOPHY I (3-0)3**

Designed to give the student a comprehensive and integrated view of the universe. The relationships of science, art, religion, and social phenomena will be explored. Discussion of the various systems of modern thought with the aim in mind to furnish the student a basis for a satisfying personal philosophy.

PHYSICAL EDUCATION, HEALTH, AND RECREATION**PE-1 MEN'S PHYSICAL ACTIVITY I (0-2)1**

A course designed to promote physical fitness through such activities as volleyball, basketball, tennis, softball, and recreational games.

PE-2 MEN'S PHYSICAL ACTIVITY II (0-2)1

A continuation of PE-1.

PE-9 INTRODUCTION TO PHYSICAL EDUCATION, HEALTH EDUCATION, AND RECREATION I (2-0)2

An introductory course to indicate interests, abilities, and personal characteristics that are important to professional workers in physical education, health education, and recreation. The explanation of professional qualifications needed to be successful and to assist students in planning for future careers as qualified teachers and leaders.

PE-11 HISTORY & PRINCIPLES OF PHYSICAL EDUCATION I (2-0)2

Preparation for majors in physical education, giving historical background and a general survey of physical education, health, recreation.

PE-18 PERSONAL LIVING II (3-0)3

A study of the maintenance and improvement of health.

PE-24 FIRST AID II (2-0)2

Instruction in first aid techniques leading to the Standard Red Cross Certificates and to the Advanced Certificate for qualified students.

PE-39 WOMEN'S PHYSICAL ACTIVITY I (0-2)1

Softball, soccer, volleyball, basketball, and physical fitness exercises.

PE-40 WOMEN'S PHYSICAL ACTIVITY II (0-2)1

Folk dancing, badminton, archery, tennis, winter sports, and physical fitness exercises.

PE-51 MEN'S PHYSICAL ACTIVITY I (0-2)1

A continuation of PE-2 with an added emphasis on skill in sports and carry-over activities.

PE-52 MEN'S PHYSICAL ACTIVITY II (0-2)1

A continuation of PE-51.

PE-62 PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL II (2-0)2

Planning a physical education program for the elementary level considering the pupils' age, physical ability, and emotional maturity. Open to women only.

PE-69 COACHING OF FOOTBALL I (2-0)2

Theory and practice of coaching; strategy and tactics; study of the different offenses and defenses; ethics and sportsmanship.

- PE-74 OFFICIATING SPORTS** **II (2-0)2**
 Discussion and practice of officiating techniques in football, basketball, baseball, wrestling, and track and field.
- PE-78 COACHING OF BASKETBALL** **II (2-0)2**
 Theory and practice of coaching; strategy and tactics; study of the different offenses and defenses; ethics and sportsmanship.
- PE-89 WOMEN'S PHYSICAL ACTIVITY** **I (0-2)1**
 A continuation of PE-40.
- PE-90 WOMEN'S PHYSICAL ACTIVITY** **II (0-2)1**
 A continuation of PE-89.

PHYSICS

- Ph-5 THE PHYSICAL SCIENCES** **I (3-3)4**
 A course designed to give a broad understanding of the field of the physical sciences. Designed to fulfill the physical science requirements for curricula other than science majors and engineers. Covers in a broad correlated manner the fields of physics, meteorology, geology, chemistry, and astronomy.
- Ph-6 THE PHYSICAL SCIENCES** **II (3-3)4**
 A continuation of Ph-5.
 Prerequisite: Ph-5.
- Ph-51 GENERAL PHYSICS** **I (3-3)4**
 A course covering the fundamental principles of mechanics, heat, and sound. A course for students in Arts and Science, and in fields other than Engineering, Physics, and Chemistry.
 Prerequisites: M-11, M-12.
- Ph-52 GENERAL PHYSICS** **II (3-3)4**
 A continuation of Ph-51. A course covering the fundamental principles of electricity, light, and recent developments in the field of Physics.
 Prerequisites: Ph-51, M-11, and M-12.
- Ph-53 ENGINEERING PHYSICS** **I (3-4)5**
 A course forming the basis for studies in applied science and engineering. Covers the fundamental principles of mechanics, heat, and sound. Calculus is introduced early in the course.
 Prerequisite: M-57 Concurrently.
- Ph-54 ENGINEERING PHYSICS** **II (3-4)5**
 A continuation of Ph-53. Covers the fundamental principles of light, magnetism, electricity, and modern physics.
 Prerequisite: M-58 Concurrently.

SOCIAL STUDIES

- SS-3 HISTORY OF WESTERN CIVILIZATION** **I (3-0)3**
 A course tracing the story of civilization from the most ancient times to 1500. Balanced attention is given to political, social, economic, and cultural developments.

- SS-4 HISTORY OF WESTERN CIVILIZATION** **II (3-0)3**
A continuation of SS-3 to the present day.
- SS-7 UNITED STATES HISTORY** **I (3-0)3**
A study of the origin and development of the United States from the discovery of America to the Civil War.
- SS-8 UNITED STATES HISTORY** **II (3-0)3**
History of the United States from the Civil War to the present, and the development of the nation as a world power.
- SS-17 AMERICAN GOVERNMENT** **I (3-0)3**
The fundamental principles upon which the American Government is founded; the organization of, and services rendered by the national government, together with current political problems.
- SS-18 STATE AND LOCAL GOVERNMENT** **II (3-0)3**
A study of the nature, organization, and operation of state and local governments in the United States.
- SS-20 ECONOMIC GEOGRAPHY** **II (3-0)3**
An introductory course examining the resource base of the American economy and the way industry uses resources. Various industries will be studied, including the oil, steel, and automobile industries.
- SS-55 PRINCIPLES OF ECONOMICS** **I (3-0)3**
A study of the fundamental principles of economics with emphasis upon special problems in the field. Gives those not intending to specialize in the subject an outline of the general principles of economics. Not open to freshmen.
- SS-56 PRINCIPLES OF ECONOMICS** **II (3-0)3**
Continuation of SS-55.
Prerequisite: SS-55.
- SS-67 INTRODUCTION TO SOCIOLOGY** **I (3-0)3**
Nature and dynamics of human society, the major social institutions, the various environments conditioning society, such as the geographical and cultural, and the factors and forces producing social changes.
- SS-68 INTRODUCTION TO SOCIOLOGY** **II (3-0)3**
Continuation of SS-67.
- SS-71 WORLD GEOGRAPHY** **I (3-0)3**
An introduction to world geography; physical and cultural regions; development of natural resources.
- SS-82 PHYSICAL GEOGRAPHY** **II (3-0)3**
A systematic study of the physical and biotic environment; world patterns of climate, land forms, natural vegetation, animal life, and mineral resources. Field trip.

Colorado State Institutions of Higher Learning

Adams State College of Colorado.....	Alamosa
Fred J. Plachy, President	
Colorado State University.....	Fort Collins
William E. Morgan, President	
Colorado School of Mines.....	Golden
John W. Vanderwilt, President	
Colorado State College.....	Greeley
William R. Ross, President	
Fort Lewis Agricultural and Mechanical College.....	Durango
Charles Dale Rea, President	
University of Colorado.....	Boulder
Quigg Newton, President	
Western State College of Colorado.....	Gunnison
Peter P. Mickelson, President	

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