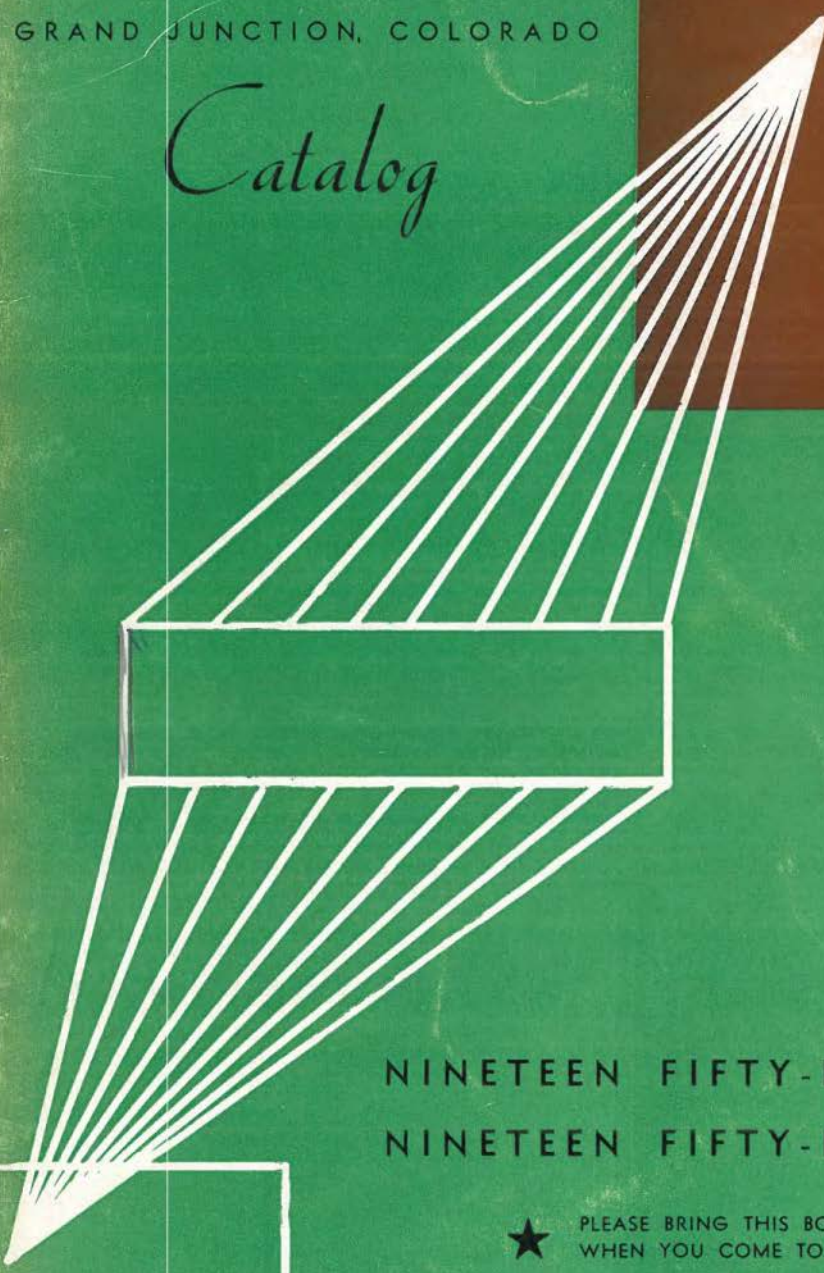


1958-59

MESA COLLEGE

GRAND JUNCTION, COLORADO

Catalog

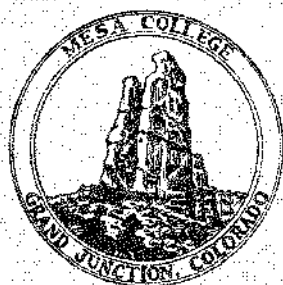


NINETEEN FIFTY-EIGHT
NINETEEN FIFTY-NINE



PLEASE BRING THIS BOOK WITH YOU
WHEN YOU COME TO REGISTER.

Mesa College Catalog



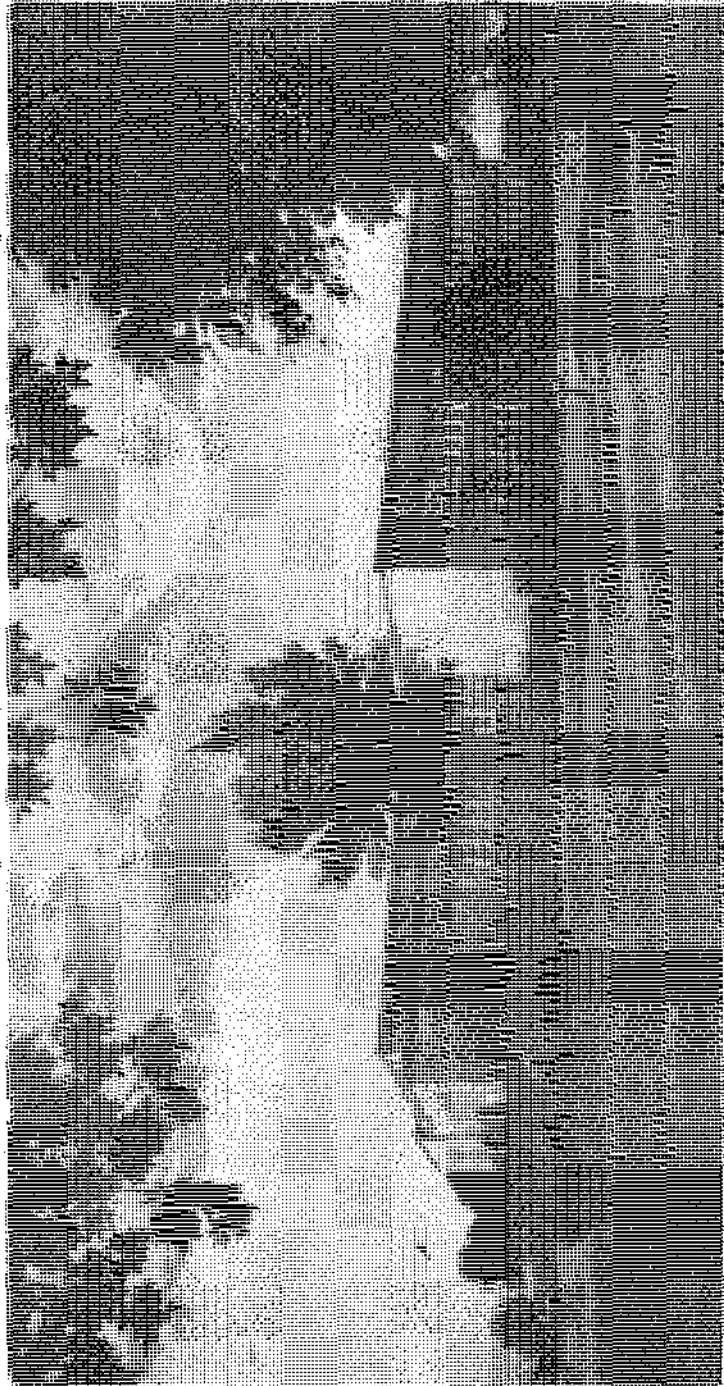
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GRAND JUNCTION
COLORADO

Wesley College Administration Building



Foreword . . .

There is today throughout the land an awareness of the importance of the community college.

Under the pressure of rapidly increasing enrollment demands traditional four-year colleges and universities are seriously considering the necessity of raising entrance requirements to the point that will deny higher educational opportunities to a considerable percentage of our college age youth. As a result the nation's educators are looking to the expansion of the two-year community college as the only alternative whereby such opportunities can be made more generally available not only to the college age youth, but also to the adults in their demands for continuation and vocational educational opportunities.

Moore College is a democratic community institution founded upon the principle that the community should provide education for all its members. It is organized to serve all who are able to attend and who can profit from its offerings, regardless of age or experience. It provides a cultural center for the community and promotes the moral and social responsibility toward the students and adult population while it makes provision for meeting educational and vocational demands made upon it.

The recent years have seen a great expansion in plant facilities of Moore College. In addition to the original administration building first occupied in 1948, there have been added a beautiful women's residence hall, the Mary Hall, with a capacity of seventy women; a temporary classroom building, and a cafeteria. In addition the college has acquired from the Moore County Commissioners the Moore College Farm for its use. This property has eleven buildings and is used both in the agricultural program of the college and for the supplying of produce for the cafeteria.

The increase in faculty and the addition of courses make Moore College, as never before, an intellectual, artistic, musical, and educational center for the western third of Colorado. It is the ambition of the college to participate in and to stimulate all types of advanced and continuation education and to maintain and furthering cultural standards in this region.

More than 13,000 students have entered the college since its inception in 1905. Hundreds have gone on successfully to complete their advanced degrees in colleges and universities of the United States. Hundreds more have been graduated and have taken their places in the commercial, industrial, family and community life—all much better equipped for having shared in college opportunities.

Moore College is open to high school graduates and all others of sufficient maturity, experience, and seriousness of purpose to enable them to benefit from its offerings.

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College Calendar . . .

SPRING QUARTER 1958

March 24	Registration
March 25	Classes Begin
May 29	Final Examinations Begin
June 6	Commencement

SUMMER QUARTER 1958

June 9	First Term Begins
July 11	First Term Ends
July 14	Second Term Begins
August 15	Summer Quarter Ends

FALL QUARTER 1958

August 29, 30	Colorado Junior College Conference
September 1	New Student Credentials Due
September 18-19	Faculty Workshop
September 22, 9:00 a.m.	New Student Assembly and Testing
September 23, 1:00 p.m.	Sophomore Registration Begins
September 25, 1:00 p.m.	Registration for Students With Late Credentials
September 26	Classes Begin
October 10	Last Day to Change Program
November 3-5	Mid-Term Tests
November 27-28	Thanksgiving Vacation
December 3	Pre-Registration Counseling
December 15	Final Examinations Begin
December 19	Fall Quarter Ends

WINTER QUARTER 1959

January 5, 1959	Registration
January 6	Classes Begin
January 16	Last Day to Change Program
February 9-11	Mid-Term Tests
March 16	Final Examinations Begin
March 20	Winter Quarter Ends

SPRING QUARTER 1959

March 25	Registration
March 26	Classes Begin
April 8	Last Day to Change Program
April 27-29	Mid-Term Tests
June 2	Final Examinations Begin
June 9	Commencement

SUMMER QUARTER 1959

June 15	Registration
June 16	Classes Begin
July 17	First Term Ends
July 20	Second Term Begins
August 21	Summer Quarter Ends



West College Choir, 1904

MESA COLLEGE

PURPOSES

1. **FOR ALL STUDENTS.** To supply training for citizenship and essential personal living in all statistics regardless of classification, by providing:
 - a. General culture and group activities through which they are enabled to gain for themselves personal, social, civic and vocational competencies;
 - b. A well-rounded education that develops within them a sound emotional and social balance and personal resources for unlimited intellectual growth;
 - c. Assistance toward better understanding and appreciation of the values of art, music, literature and other cultural activities;
 - d. Help in increasing their knowledge of economic principles, political institutions and historical trends and developments.
2. **FOR TERMINAL STUDENTS.** To provide certain types of vocational training for specific occupations and to offer opportunity to students desiring basic or extensive training in several skilled trades.
3. **FOR CONTINUING STUDENTS.** To provide two-year courses of study leading to entrance into the third year class for those who are to continue their formal education in a senior college or university, in liberal arts or in the professions.
4. **FOR ADULTS.** To provide opportunities for adults to participate in academic, cultural, recreational and vocational activities according to their needs, interests or desire to learn.
5. **FOR THE COMMUNITY.** To stimulate and lead the intellectual and cultural life of the community; to furnish programs for information and entertainment; to provide a center for participation in program, social activities and to foster activities leading to civic, social, moral and educational improvement of the community.

CURRICULUM

The curriculum of Mesa College is designed to meet the needs of the students of the area which it serves. It contains courses in arts and sciences that are the same as those offered during the first two years at the senior colleges and universities of the state, and also offers many specialized courses to meet local needs and demands. It is flexible so that changes are made in periods. A curriculum committee of the faculty reviews suggestions for revision and makes recommendations for changes that it considers desirable. Courses are added or dropped according to the changing needs of the students of the college and to the social and industrial development of the community.

Personnel

MESA COLLEGE COMMITTEE

Garold McNew, President	Grand Junction
Claud Smith, Secretary	Grand Junction
Mrs. Clyde Biggs, Treasurer	Grand Junction
Roa F. Saunders	Mack
E. J. Duggan	Grand Junction

OFFICERS OF ADMINISTRATION.

Horace J. Wubben, D. A., M. A.	President of the College
Mary Raitt, B.A., M.A.	Vice-President
Jay Tolman, B.S., M.S.	Dean of Men
Caryl Long, A.B., M.Ed.	Dean of Women
Lowell Heiny, B.A., M.A., Ed. D.	Registrar

INSTRUCTIONAL AND ADMINISTRATIVE PERSONNEL.

Margaret Ann Arbenz	Librarian
A.B., M.A., University of Colorado	
B.S. in L.S., University of Denver	
Pauline Bateman	Home Economics
B.S. M.S. Colorado State University	
Edith Bauer	Business
A.B., Western State College	
Walter F. Bergman	Physical Education
B.S., M.E., Colorado State University	
Darrell C. Blackburn	Music
B. Mus. Ed., M. Mus. Ed., University of Colorado	
Mayna G. Blamey	Practical Nursing
R.N., Walter Reed Hospital	
Orville L. Boge	Chemistry, Physical Science
A.B., Colorado State College	
M.A., Colorado State College	
Mary M. Coleman	Mathematics
B. S., Alfred University	
M. P. S., University of Colorado.	
Elizabeth H. Cramer	Speech
A.B., University of Colorado.	
M. A., University of Illinois.	
Adv. Grad. Study, Northwestern University;	
University of Chicago.	
Thomas G. Crosslen	Mathematics, Engineering Drawing
B.S., Architectural Engineering, University of Colorado	
B.S., Mechanical Engineering, University of Colorado	
Registered Professional Engineer	
James C. Davis	Mathematics, Engineering
B.A., M.A., Colorado State College	
Adv. Grad. Study, University of Colorado	
Carolyn Phelps-Erasing	English
B.S., M. Ed., University of Illinois	
Adv. Grad. Study, University of Illinois	
Eugene W. Endsley	Biology
A.B., M.S., University of Denver	
Adv. Grad. Study, University of Colorado.	
Abbott Fay	Journalism, Social Science
A.B., M.A., Colorado State College	

Una V. Fleming	Dormitory Director
Alfred Goffredi	Business
A. B., M. A., Western State College of Colorado.	
Harry Hammer	Music
B. M., M. M., Syracuse University. Adv. Grad. Study, Syracuse University, Western State College	
Roy E. Hannah	Farm Training Supervisor, Agriculture
B.S., Colorado A. & M. College.	
Helen M. Hansen	Business
A.B., State College of Washington	
Kathleen Heidrich	English
A. B., Kansas Wesleyan University. M. A., University of Denver. Special Study, University of Colorado.	
Lowell Heiny	Registrar
A. B., McPherson College. M.A., Colorado State College Ed. D., University of Colorado	
Esther Herr	English Language, Literature
A. B., State University of Iowa. A. M., Columbia University	
Elmer G. Houston	Maintenance Superintendent
Lloyd Jones	Psychology, Social Science
A. B., M. A., Western State College of Colorado. Adv. Graduate Study, University of Colorado	
May Belle Kanavel	Business
B. A., B. E., University of Colorado. M. S., School of Commerce, University of Denver	
Marie Killheffer	English Language, Literature
A. B., Cornell College, Iowa. M. A., University of Chicago. Adv. Grad. Study, University of Chicago.	
Kenneth LeMoine	Mathematics, Education
A. B., M. Ed., University of Colorado. Adv. Grad. Study, University of Colorado.	
Caryl Long	Education, English
B.A., M.Ed., Colorado State University B.S., Colorado State University	
Donald A. MacKendrick	Social Science
B.S., Colorado A. & M. College M.A., University of Colorado	
Henry K. Matsumoto	Science, Mathematics
B.A., M.A., Colorado State College Adv. Grad. Study, Syracuse University	
Melvin McNew	Chemistry, Mathematics
A. B., M. A., Western State College of Colorado.	
Wayne Nelson	Director of Physical Education
B.S., M.S., Utah State College Adv. Grad. Study, University of California	
Marion A. Nydegger	Financial Secretary
B.S. (Accounting), University of Colorado	
Roberta Peck	Business
B.A., University of Colorado; M.A., Colorado State College; Adv. Grad. Study, University of Arizona, Montana State University, University of Colorado.	

Mary Rait	B. A., M. A., University of Colorado. Adv. Grad. Study, University of Washington; Columbia University; University of Colorado.	History
Bee Randolph	Director of Health Service R.N., St. Luke's School of Nursing	
Alvie Redden	B. S., West Texas State College. M. F. A. University of Colorado. Adv. Grad. Study, Ohio State University, Columbia Univ.	Art
Dan M. Showalter	English, Dramatics B.A., Western State College. Adv. Grad. Study, Western State College; University of Colorado	
Laura Smith	Foreign Language A.B., University of Wichita M.A., University of Kansas	
John M. Stout	Business A.B., Colorado State College of Education. Adv. Grad. Study, University of Denver	
Jay Tolman	Dean of Men, Geology B. S., M. S., Utah State Agriculture College. Adv. Grad. Study, University of Colorado	
Alta Wadlow	Physical Education B.A., Colorado State University Adv. Grad. Study, Colorado State University	
Herbert Weldon	Mathematics, Physics A. B., M. A., Western State College of Colorado. Adv. Grad. Study, University of Colorado.	
Waite E. Wheeler	Director, Adult and Vocational Program A.B., University of Colorado Adv. Grad. Study, University of Colorado Teachers College, Columbia University	
Horace J. Wubben	President B. A., Colorado College. M. A., University of Colorado. Adv. Grad. Study, University of California; University of Colorado.	

SPECIAL MUSIC INSTRUCTORS

Gerald Baley	Voice
Dean Beck	Woodwind Instruments
Margaret Ann Bullen	Organ
Mary Leah Chavies	Bass Viol
Anna Ross Cheney	Voice
Hans Clemens	Voice
Ota Cook	Piano
Don Craig	Piano
Marshall Griggs	Strings
Beatrice Harmon	Piano
Anna Mae Heiny	Piano
Marion L. Jacobs	Brass Instruments
Bobbie Lee Quist	Piano, Voice
Charles Myers	Piano
Allen Porter	Flute
Joan Shiolas	Cello, Voice
Cloyce B. Stokes	Woodwind Instruments
Leroy Thompson	Percussion
Marie Treece	Voice
Georgia Ann Watkins	Flute

GENERAL INFORMATION

HISTORY AND ACCREDITATION

From 1925 until 1937 Mesa College was known as Grand Junction Junior College. Since 1937, when the State Legislature made provisions for public support, it has existed under the present name.

Mesa College is accredited by the North Central Association of Colleges and Secondary Schools. Such accreditation places academic credits earned at Mesa College on a par with those earned at other accredited colleges and universities throughout the United States and assures their acceptance by these institutions. Students are reminded however, that acceptance of transfer credit by any accredited college depends upon the individual student's presentation of a satisfactory academic grade average and certification by the Registrar of the former college that the student is "in good standing".

BUILDING AND EQUIPMENT.

The Mesa College building covers nearly one-half city block in area. The two-story structure is one of the most modern and practical college plants in the West. Constructed in modern design, the building includes the administrative offices, class rooms, lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructors' offices. A frame structure on the campus furnishes four additional class rooms.

Murr Memorial Library, the college library, occupies a well-lighted and air-conditioned room seating ninety. The book collection, which is growing steadily, numbers about 11,000 volumes, for the most part arranged on open shelves. Eighty periodicals are received currently.

The various laboratories—chemical, physical, biological, home economics, and business—are fitted with modern equipment, permitting a high quality of laboratory work to be done.

A shop serves the needs of students desiring such vocational courses as auto mechanics, body and fender repair and machine shop.

A fully-equipped cafeteria provides meals for both boarding and day students.

Mary Hatt Hall, built in 1948, provides comfortable living quarters for women students. Each resident has her own bedroom and shares a living room and modern bath facilities with four other women. The dormitory has recreation rooms, party kitchens, and a dining lounge on the first floor. A full-time, trained counselor is in residence and available at all times.

LOCATION.

Mesa College is located at North Avenue and Twelfth Street about one and one-quarter miles north and east of the main business district of Grand Junction. The College grounds include one hundred acres in three different areas.

The residential section in the vicinity of Mesa College is one of the most beautiful and modern districts in the city.

HOUSING

The college administration requires that men students live in private homes or apartments approved by the college. A list of accommodations is available in the Dean of Men's office. Out-of-town women students must live in the dormitory unless they find it necessary to work for room and board. One unit of the dormitory is being used temporarily for housing men students.

LINCOLN PARK.

Directly to the south and east of Mesa College across North Avenue is the beautifully landscaped Lincoln Park, the recreation center of Grand Junction. The park includes a green turfed football field, and a quarter-mile curbed cinder track. Other physical equipment includes a baseball diamond and stands, six concrete tennis courts, a nine-hole golf course with grass fairways and greens, all available to college students.

PERSONNEL SERVICES

Each student at Mesa College is assigned to a faculty counselor on the basis of his vocational and major subject interest. He gets to know his faculty adviser whose friendly interest helps him to solve personal problems and to plan and evaluate his college work as he goes along.

This person continues as the student's adviser as long as he is in college unless he asks to be transferred to another counselor. He helps him register, basing his assistance on the student preferences, previous record and the test scores made on standard tests given during Freshman week. He also discusses with the student the school or vocational choice to be selected when ready to leave Mesa, and will help to plan transfer of credits or entrance into a vocation.

Mesa is small enough to offer students the opportunity to know instructors personally. They are interested in and willing to help other students as well as their advisees. The deans of men and women are available as counselors as well as being in charge of placing students in part time jobs, and securing for them student loans.

Prospective students are invited to come to the office at Mesa College during the summer. At any time during office hours they will find some person competent to answer their questions.

STUDENT ACTIVITIES

Mesa College is a democratic institution and its activities are open to students according to their interests. Activities are varied and inexpensive and students are urged to take part in them. Sophomores help freshmen in choosing activities in which to participate. Students plan the social program of the college and carry on a representative democratic student government. Student organizations and activities are listed and described in the handbook which is furnished to each student upon registration.

Mary Rait Hall serves as a campus social center. All students are welcome to the recreational facilities on first floor—ping pong, cards, dancing, music and reading—at specified hours.

To provide the experience of living away from home and getting acquainted with the girls from other localities, it is urged that local young women plan to spend some time in the dormitory whenever space is available. A month would be helpful; a full quarter is preferable.



Phi Delta Kappa initiation.



A. C. M. Sawyer

College-Community Relations

Through mutual cooperation with the community, Mesa College has become a real cultural center, an integral factor in the educational and social development of Western Colorado. Faculty members are related to lectures and discussions on a wide range of subjects related to education, agriculture, home-making and current social problems. Student groups appear often before public or private audiences for information or entertainment. The public is invited to attend many types of programs at the college—musical, dramatic, forensic, religious, and those devoted to public affairs and international relations—presented by faculty, students, community members, and out-of-town speakers.

Weekly radio programs are broadcast over KREX and KEXO in which students and faculty participate.

Book reviews, play readings, lectures, conferences, demonstrations and musical programs are presented at the college from time to time by members of the community, for the students and the public.

The churches of Grand Junction all cooperate with the college in meeting the needs for religious education among the students. Opportunities include participation in student classes in Sunday schools, young people's organizations, and in choirs.

Expenses at Mesa College

BOARD AND ROOM.

Women and men students living in the dormitory pay \$195 per quarter for room in the dormitory and meals at the cafeteria. The cost of rooms for men in private homes depends on the type of accommodations furnished and ranges from \$15 to \$25 per month. Meals in the cafeteria cost \$50 per month for students not living in the dormitory.

BOOKS AND SUPPLIES.

Text books, notebooks and school supplies are sold at the College Bookstore. Cost for needed supplies will vary according to the courses taken by the students but ought not to exceed eighty dollars for the year. Some saving may be realized by buying used books which may be available in limited quantities.

TUITION.

Because Mesa College is partially supported by taxes levied on Mesa County property, students whose parents are residents of Mesa County are not required to pay tuition.

Students who have reached their majority and who have been residents of Mesa County for six months next preceding the date of registration are not required to pay tuition. However residence in the county for the purpose of attending Mesa College does not apply toward the establishment of resident status.

A resident is one who can give evidence, beyond a reasonable doubt, that his permanent residence is in Mesa County. In determining residence, the place of voting, the previous home, the date of taking up present residence, age, vocation, citizenship and expectation of future residence will be taken into consideration.

Students who are residents of Colorado but who are not residents of Mesa County will be charged a tuition fee of \$35.00 per quarter, payable at the time of registration.

Out-of-state students will be charged a tuition fee of \$60.00 per quarter, payable at the time of registration.

GENERAL FEES

Matriculation (paid once by each student)	\$ 5.00
Tuition (not charged Mesa County residents)	
Colorado students	35.00 per quarter
Out-of-state students	60.00 per quarter
College Services Fee	25.00 per quarter
Student Activity Fee	5.00 per quarter

LABORATORY FEES

Agriculture	\$ 3.00 per quarter
Anatomy	10.00 per quarter
Applied Music, (one lesson per week)	20.00 per quarter
Art (each laboratory class per credit hour)	2.00 per quarter
Commercial, each laboratory class	3.00 — 5.00 per quarter
Education, each class	1.00 per quarter
Home Economics (each laboratory class)	5.00 per quarter
Laboratory Science, each, except Anatomy	5.00 per quarter

EVENING SCHOOL FEES

Art	\$20.00 per quarter
Business, each class	15.00 per quarter
Trade Related Training Classes (Apprentice)	10.00 per quarter
Other class fees vary as to subject, time, and materials required.	

MISCELLANEOUS FEES.

Late registration	\$ 2.00
Change in schedule	1.00
Late or special examination (including G E D tests) each	1.00
Graduation (cap, gown, diploma)	3.00
Late petition for graduation	1.00
Late credential fee	3.00

PART-TIME STUDENT FEES.

Students taking a part-time course are charged the matriculation fee, a class fee of three dollars per quarter for each class hour for which they register, plus the regular laboratory fee for any laboratory course they may take. A part-time course consists of fewer than 12 quarter hours.

PAYMENT OF FEES.

All tuition and fees are due and payable at the time of registration—the first day of each quarter—and registration is not complete until the student's obligation is met in full. Any student who enrolls and attends classes is liable for payment of fees even though he may drop out of school. No student having unpaid financial obligations of any nature due the college shall be allowed to graduate or to receive any transcript of credits.

SCHOLARSHIPS AND AWARDS

Mesa College gives a scholarship to one freshman from each high school in this region based upon the recommendation of the high school principal, which covers tuition for one year.

Joint Honor Scholarships awarded to high school graduates to be used at any of the six four-year institutions may be used at Mesa College for two years, or less, and then transferred to one of the four-year institutions, providing that such students have met all the requirements of the Joint Honor Plan.

Music scholarships covering the cost of one music lesson per week for three quarters are awarded by the college to ten entering music students. These awards are based upon the recommendations of high school music directors and the Mesa College Music Staff. Two additional Freshman Music Scholarships are provided by the Grand Junction Wednesday Music Club and one applied Music Scholarship by the local Kiwanis Club.

The Lions Clubs of several communities in cooperation with the Grand Junction Lions Club offer scholarships which pay freshman tuition.

Scholarships are furnished to a limited number of sophomores who have made high scholastic records at Mesa as freshmen, by individuals and local organizations. These are listed in the Freshman Handbook. Information about them may be obtained from the Registrar.

LOAN FUNDS.

Several organizations in Grand Junction maintain loan funds from which needy students may obtain loans by presenting satisfactory credentials. Information concerning these funds is available in the office of the Dean of Women or the Dean of Men.

The Harry B. Goodwin Loan Fund of \$7,000.00 is available, on a revolving basis, to graduates of Mesa College who need loans to continue their education.

The William Campbell fund deriving from the estate of William Campbell is used for loans and scholarships to students attending Mesa College.

EMPLOYMENT OPPORTUNITIES.

Students who find it necessary to earn a part of their expenses while attending Mesa College will be assisted by the college in securing employment. Grand Junction business men and residents are generous in offering employment to students and cooperate fully with the work-placement director of the college. It is important, however, that the student shall have enough money to enable him to stay in college for at least two months.

The college is interested in the placement of its graduates who desire to enter a permanent position and will assist them to obtain employment for which they are fitted.

Organization for Instruction

The program for the two years at Mesa College will depend upon what the student plans to do at the end of two years. For those who plan to continue college work in a senior college or university the courses in liberal arts, which are equivalent to such first and second-year courses at higher institutions of the state, are required. Certain definite lower-division requirements are met by the courses leading to the Associate in Arts or the Associate in Science degree. Other courses will depend upon the field in which the student's major interest lies, but will consist of such as fit into the student's planned program to be followed in the junior and senior years.

For those who do not plan to continue beyond the junior college, several non-specialized courses are offered. These provide for a broad training and liberal choice of electives. For those who desire to prepare for a specific vocation, guidance is given in selecting the appropriate courses for such preparation.

Business courses are offered to provide one or two years' training in the fields of Accounting, General Business and Secretarial Science. These may be taken in Day or Evening School during the regular year and for a five or ten weeks' period during the summer.

A program of Adult Education is designed to provide opportunities for adults to receive both academic and vocational preparation in various fields.

Related training in several apprentice trades is given at the Vocational School.

MESA COLLEGE RESERVES THE RIGHT TO WITHDRAW FROM ITS OFFERINGS ANY COURSE WHICH THE ENROLLMENT DOES NOT JUSTIFY GIVING, FOR ANY PARTICULAR QUARTER. ADDITIONAL COURSES WILL BE ADDED ANY QUARTER IF THE DEMAND IS SUFFICIENT.



Big and Little Sister Picnic



Activities

Wesa College carries out a full program of Physical Education for men and women and participates in a three-quarter schedule of intra- and extra-collegiate sports. Students are encouraged to take advantage of the opportunity to compete in intercollegiate games and sporting events and are strictly encouraged and urged to do so. Students are permitted to participate. The program consists of football, basketball and soccer, baseball, tennis and track for the respective seasons. Intramural activities provide for participation by a large number of students.



ACADEMIC INFORMATION

ADMISSION TO MESA COLLEGE

Admission to Mesa College is granted upon the filing of an application for admission and the presentation of satisfactory credentials. All applications must be filed upon the official forms available at the college, or, for Colorado students, at the office of the high school principal. Students entering Mesa College for the first time are required to present at the time of registration a certificate of good health signed by a family physician or a physician approved by the college. This certificate is available at the college office.

ADMISSION TO THE FRESHMAN CLASS

High School graduates, or those who have completed satisfactorily fifteen acceptable units of high school work, are eligible for admission in the freshman class. The application for admission, which includes a transcript of the high school record properly filled out and signed by the high school principal, must be submitted before the time of registration and placed in an file in the Registrar's office not later than the first of September. (Forms may be secured from high schools or from Mesa College).

An applicant for admission who has already attended another institution of college rank may not disregard his collegiate record and apply for admission as a freshman.

ADMISSION TO ADVANCED STANDING

Students honorably dismissed from other colleges or institutions of similar rank may be admitted to advanced standing in Mesa College. Students applying for advanced standing will furnish to the Registrar's office a transcript of all college work with final grades attached.

ADMISSION OF VETERANS

Mesa College is open to any veteran who qualifies for college education and the Veterans Service program has been organized to give the most efficient assistance possible in planning his program of study.

A veteran who does not meet the normal entrance requirements for admission, but who passes the aptitude tests, that he is ready to do college work, will be admitted.

All educational work done by the veteran while in active service will be reviewed and credit given when possible. Academic credit, earned in a Navy or Army academic program or through correspondence courses taken from colleges and universities through the United States Armed Forces Institute, will be granted. Academic development through military experience or through correspondence courses will be measured by tests and, if the veteran is found to have gained knowledge equivalent to a specified college course, credit will be granted.

A veteran may take regular courses leading to an associate degree granted by Mesa College and preparing him for entrance to the higher division of four-year colleges and universities, or he may follow a terminal program designed to prepare for some specific occupation.

NOTE—Students who wish to qualify for Veterans Administration benefits (P. L. 850 or 854) should come prepared to discuss their living expenses for a period of sixty days. This is the normal length of time required to set up a veteran's file in the regional office and for the issuance of monthly checks.

ADMISSION OF SPECIAL STUDENTS.

Mature individuals who lack some of the requirements for admission as regular students may be admitted as special students on a full or part-time basis. Special students may become regular students upon fulfilling the requirements for entrance. This may be done by passing proficiency tests in courses studied independently or by substituting certain college courses for high school units.

ENTRANCE TESTS

Entrance tests are given new students during the registration period so that students and counselors may use the results in making out programs of study. These tests are required of all students but not in the sense certain records are necessary for entrance to college. Students do not "pass" or "fail" these tests. They are used to determine interests and abilities of new students in order to help them get the most out of college. The results are used for classification purposes and for planning a course of study to meet the particular needs of students. A fee of \$1.00 is charged for each late entrance test.

The tests include vocational interest, ability to do college work, English usage and reading tests, and a personality inventory. The results are available to the student and his counselor and form an excellent basis for counseling.

Those who make low scores in reading and English usage are given special help in overcoming their deficiencies. Two extra hours of classwork per week during the first quarter of Freshman English are provided for those whose reading test scores indicate weakness in this ability.

PROFICIENCY EXAMINATIONS.

Proficiency examinations may be taken by regularly enrolled students to determine whether credit may be allowed for courses taken in an unapproved institution of higher learning; to determine amount of credit to be given for work done outside of class; and to provide a basis for exemptions from certain courses.

DEPARTMENTS OF INSTRUCTION.

Mesa College offers courses in fourteen different departments. These are Agriculture, Art, Biological Science, Business, English, Foreign Language, Home Economics, Mathematics and Engineering, Music, Physical Science, Physical Education, Related Training, Social Science, and Trades and Industry.

COURSES OF STUDY REQUIREMENTS.

The course of study which an individual student pursues depends upon his present interests and his future plans. Freshman requirements for the principal courses offered at Mesa College are similar to those at senior colleges. Students who plan to continue college work after leaving Mesa College should decide upon the college to which they will transfer and plan their course here so that freshman and sophomore requirements of the college of their choice will have been met. This is a student responsibility although counselors will be glad to help.

REGISTRATION.

In order to become a student of Mesa College, whether regular or special, an applicant must register on official forms provided by the college and at the appointed time. Credit will be given only for courses in which the student is registered.

N. C. D. COURSES.

A student who desires to attend certain classes regularly, but does not wish to take the final examinations or receive grades or credit, should register No Credit Desired in these courses. Record will be kept of classes attended. Credit for such courses may not be established at a later date. A student may combine in his registration both credit and N. C. D. courses, but the total hours involved should not exceed a normal schedule.

TIME OF REGISTRATION.

Fall Quarter registration will begin at 9:00 a.m., September 22, 1958. All new students are required to be present at that time.

REMOVAL OF HIGH SCHOOL DEFICIENCIES.

Applicants with high school deficiencies should make arrangements to remove them during their first year at Mesa College. These arrangements should be made before registration is completed.

Deficiencies may be removed (1) by passing appropriate examinations or (2) by completing in the junior college with a grade of "C" or better college courses in the group or groups of subjects in which the deficiencies lie. No college credit will be given for such courses when they are used to remove high school deficiencies.

GRADUATION.

To graduate from Mesa College a student must:

1. Have been regularly enrolled at least three quarters including the one next preceding the time of his graduation.
2. Complete with an average of C or better, 93 hours, including social science or literature, 9 hours; Freshman English, 9 hours; physical education, 3 hours.
3. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be \$1.00.
4. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
5. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.
6. Be in attendance upon the Commencement exercises of his class unless a petition of absence, properly made by him to the committee on graduation, is approved by that committee.

CERTIFICATES, DIPLOMAS, DEGREES.

Mesa College grants a certificate, diploma or degree, according to the type of curriculum selected by the student and upon completion of the specific requirements of each. These include completion certificates, a Mesa College diploma, and the degrees, Associate in Arts, Associate in Science and Associate in Commerce.

A completion certificate may be awarded those who complete satisfactorily a terminal course of less than two years' duration.

THE MESA COLLEGE DIPLOMA is granted to those students who wish greater freedom in the choice of their courses. Students who meet the general requirements for graduation (as stated above) are entitled to the diploma.

TEACHING PERMIT.

Mesa College recognizes the need for teachers and encourages young people of ability to prepare for teaching, the most fundamental of the social services. Those students who complete satisfactorily two years in the School of Arts and Sciences at Mesa College and include among electives 9 hours of education, 6 hours of student teaching, 9 hours of psychology, and 6 hours of sociology or biology, are eligible to receive the pre-graduate permit, from the State Department of Public Instruction, to teach for one year. Since the granting of this permit is on a temporary basis, it is strongly recommended that students plan to complete the baccalaureate degree before seeking teacher certification.

TRANSFER OF CREDIT.

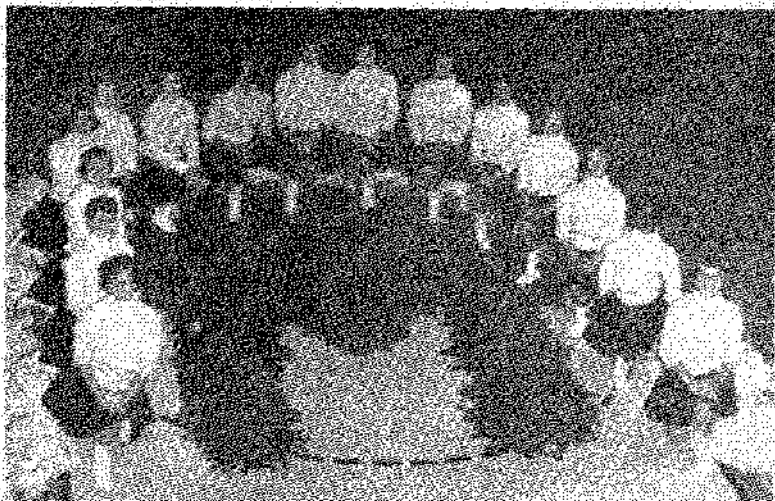
Accreditation by the North Central Association of Colleges and Secondary Schools assures the acceptance of credits earned at Mesa College by other accredited colleges and universities throughout of the United States. However, students are reminded that acceptance of transfer credit by any accredited college depends upon the individual student's previous grade average and a certification from the registrar of the former school that the student is in "good standing".

A student in good standing is entitled to a transcript of his record at any time. Such transcripts are accepted by other junior record at any time. One transcript is furnished free of charge. A fee of \$1.00 is charged for each additional transcript.

Credits transferred from an accredited junior college are accepted in senior colleges and universities up to a maximum prescribed by the particular institution for the first two years of a course similar to the one from which the student transfers.

Junior colleges in Colorado are authorized by State law to provide only the first two years of college instruction. This is the equivalent of 90 academic hours, plus six hours of physical education, for most higher institutions.

Students who earn more than 90 academic hours may not receive credit for the excess hours on transfer to a four-year state college in Colorado that requires only 90.



Mesa College Stepperettes.

A student expecting to transfer to a senior college is advised to examine carefully the current catalog of the particular college he expects to enter and to follow as closely as possible its particular recommendations for programs of study.

GENERAL REGULATIONS

LATE REGISTRATION.

Students registering late will be required to make up the work they have missed. Students are not permitted to enroll after the second week in any quarter for a full-time class schedule. The number of courses allowed will depend upon the time a student registers.

CHANGE OF PROGRAM.

No student may add a course for credit or transfer from one subject to another after the second week of the quarter. If it becomes necessary for a student to withdraw from a course after the second week he must make arrangements with his counselor. Failure to abide by this rule will result in the assignment of failure for the course or courses involved.

Transfer from one curriculum to another should not be made by a student without his counselor's approval.

ATTENDANCE.

A student at Mesa College is expected to attend all sessions of each class in which he is enrolled. Failure to do so may result in a lowered grade or exclusion from class. At any time during a quarter, a student who fails to attend regularly may be dropped from college rolls, at the discretion of the administration.

All instructors are required to keep a record of all absences. Whenever the instructor thinks that absences are seriously affecting a particular student's work, it shall be his duty to report this fact to the office of the Dean of Men or the Dean of Women.

Absences will be excused when incurred by reason of a student's participation in required field trips, intercollegiate games and other trips arranged by the college only if previously approved by the President. The coach or instructor or other official whose work requires absences from classes shall file in the President's office a list of the names of the students involved at least 24 hours before the activity.

Absences because of neglect, work, calls home, etc., are alike counted as unexcused absences, since every absence may entail a loss to the student. Non-attendance at any regularly required class, laboratory exercise, rehearsal or field trip constitutes an absence.

Absences due to serious illness or strictly unavoidable circumstances may be excused if the instructor in charge of the course is completely satisfied as to the cause. Being excused for an absence in no way relieves the student of the responsibility of completing all the work of the course to the satisfaction of the instructor in charge.

STUDENT LOAD AND LIMITATIONS.

The normal student load is sixteen quarter hours (eighteen for engineering students) and the minimum load is twelve hours, except for a few special and part-time students. Eighteen hours is the maximum load until a student has shown his ability to take more, and then he may be permitted to carry more hours if his schedule is approved by the admissions committee.

Students who are gainfully employed must limit class load according to the number of hours they work a day, with due consideration given to their ability.

COURSE CONTINUATION.

Courses which continue for three quarters should be taken throughout the year by students planning to transfer credits to senior colleges or universities, and in the sequence indicated by the course numbers. Example: French, 1, 2, 3, FWS (fall, winter, spring). To receive transfer credit for this course it is necessary to take all three quarters.

SCHOLARSHIP STANDARDS.

Standards of scholarship at Mesa College depend upon the objectives, nature and content of the courses. While individual progress is a basic consideration, and the development of each student in the light of his needs and aptitudes is the major concern of the college, it cannot be too strongly emphasized that if minimum standards are not maintained failure will result. In no case is credit or a grade awarded merely on the basis of attendance.

In order that students and faculty may be aware of the quality of work being done and of progress being made, the evaluation of the student's work is based upon periodic examinations, class reports, term papers, and other evidences of scholarship. Each instructor is responsible for the evaluation methods employed in his courses.

A student's work is considered satisfactory when he maintains an average of "C" or higher. Any student whose record at the close of any quarter is unsatisfactory may be placed on probation, may be transferred to another curriculum, or may be dismissed from college. Reports are made to draft boards at regular intervals concerning the status of men whose military service has been deferred while they attend college.

EXAMINATIONS.

Final examinations are held regularly at the end of each quarter. Students are required to take the final examinations at the appointed time and place in order to receive credit in a course. Mid-term examinations are held during the sixth week of each quarter and are required of all students. A fee of one dollar is charged for a late or special examination.

GRADE REPORTS.

Individual reports are sent to students, or parents if they request them, at the end of each quarter. Special reports may be obtained upon application to the Registrar at any time. An official report is withheld, however, until all fees are paid.

SYSTEM OF GRADES.

Grades in Mesa College are indicated as follows: A, for superior work; B, good; C, fair; D, minimum passing; F, not passing; Inc., incomplete; S, satisfactory; U, unsatisfactory; W, withdrawn passing; X, for credit established by passing a proficiency examination; M, for military credit, and TF for unapproved withdrawal.

INCOMPLETES.

A grade of "incomplete" may be reported only on account of illness at the time of a final examination, or when the student for reasons beyond his control has been unable to finish all the work of the course. This grade may be given only upon agreement between the instructor and the Registrar of the college. To complete a course in which a grade of incomplete has been received, a student must register his intention to do so during the next quarter he is in attendance.

PROBATION.

Full time students who fail to pass ten hours in any quarter may be placed on probation by the admissions committee and their class load restricted for a quarter.

WITHDRAWAL FROM COLLEGE.

A student who desires to withdraw from college should notify his instructors and make formal application to the Registrar for permission to withdraw. If permission is granted the student will receive a grade of W for each course in which he is passing at the time of withdrawal, and a grade of F for each course in which he is not passing.

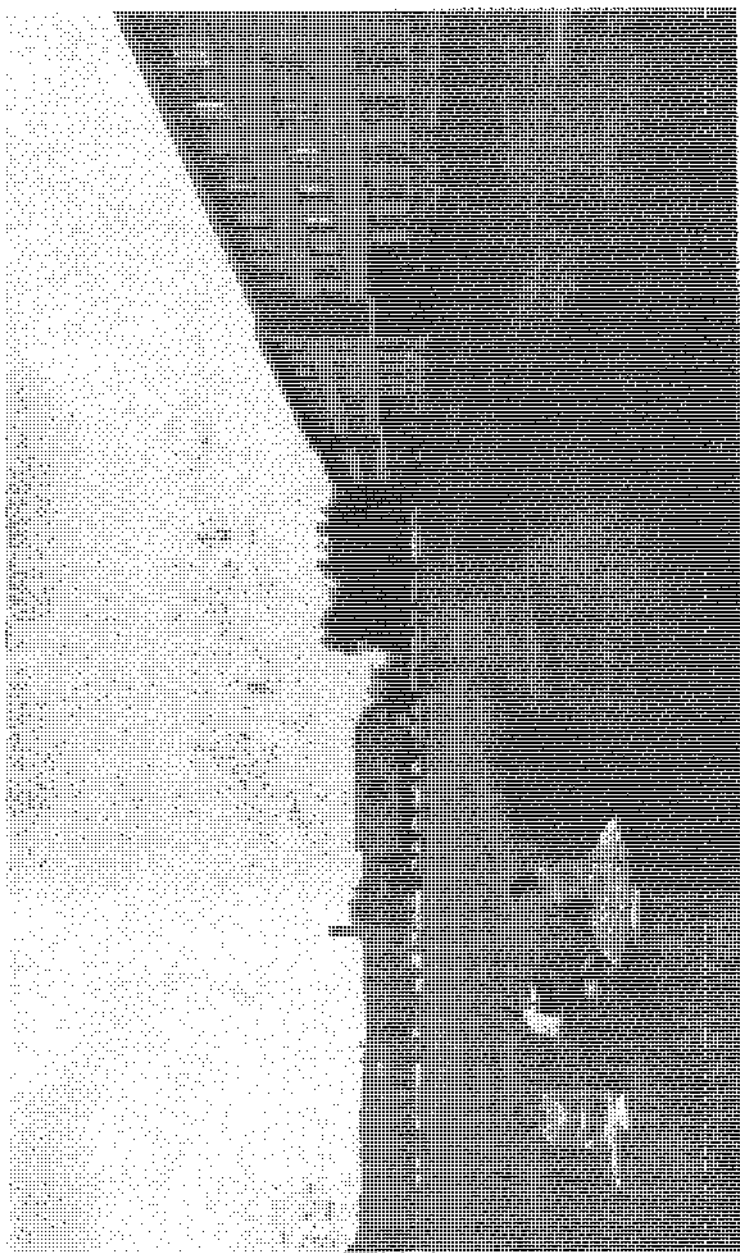
No permission to withdraw will be granted during the last two weeks of a quarter, except in emergencies.

HONORABLE DISMISSAL.

A statement of "honorable dismissal" will be given a student if at the time of withdrawal his status as to conduct, character and scholarship is such as to entitle him to continue in the college.



IRC Member in Action



Concept Plan with Administration Building, Gym, and Library, NEHA College, Bangalore

SCHOOL OF ARTS AND SCIENCES

The work of the School of Arts and Sciences is designed primarily for students who expect to transfer their junior college credits to a senior college or university where they will continue their formal education. The requirements for this school are those for the Associate in Arts and Associate in Science degrees.

A secondary purpose of the School of Arts and Sciences is to provide for the completion of general education and to offer a well-rounded general cultural program for those who do not plan to continue for four years.

PREPARATORY COURSES FOR FRESHMEN.

All freshmen who register in the School of Arts and Sciences and plan to continue their work later in a senior college, university, or professional school, are required to register for English composition, 9 hours, and physical education, 3 hours.

Those whose major interest lies in the field of Education, English, Foreign Language, History, Law, Music, Social Science, or Speech, should register to meet the requirements of the Associate in Arts degree and, in addition, take the specific courses required in one of these fields, by the school to which they expect to transfer.

Those who are interested in Agriculture, Dentistry, Engineering, Home Economics, Mathematics, Medicine, Nursing, Pharmacy, or related fields, should register in courses leading to the Associate in Science degree, and take the particular courses required by these departments in the universities and professional schools of their choice in the first two years.

DEGREES

The Associate in Arts and Associate in Science degrees are granted to students who matriculate as regular students, spend at least one year in residence, meet the general requirements for graduation stated on page 23 and in addition complete the appropriate specific degree requirements as follows:*

General Requirements

All Mesa College graduates must complete with an average of C, or better, 93 hours, including:

Freshman English	9 hours
Social Science or Literature	9 hours
Physical Education	3 hours

Specific Requirements for the Associate in Arts degree

Physical Science	9 hours
History or other social science	9 hours
Literature	9 hours
Biology or Psychology	9 hours
Approved electives	45 hours

Specific Requirements for the Associate in Science degree

Laboratory science and mathematics	39 hours
Approved electives	33 hours

In arranging schedules, Freshmen should register for English Composition, Physical Education, and at least one other, preferably two, of the required courses. All approved electives must be transfer courses.

*Specific requirements for the Diploma may be found on page 23, and for the Associate in Commerce degree on page 56.

TYPE CURRICULUMS

The following curriculums are suggested to assist students in planning their courses so as to include both general and special requirements for graduation with the appropriate degree or diploma as indicated. Counselors will assist in selecting courses for other fields which may be desired by students and in accordance with requirements of specific institutions.

ART Associate in Arts FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 1	3	English 2	3	English 3	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Art 11	3	Art 12	3	Art 13	3
Art 41	3	Art 42	3	Art 43	3
Art 1	2	Art 2	2	Art 3	2
Physical Education	1	Physical Education	1	Physical Education	1
Orientation	1	Elective	2	Elective	2
	16		17		17

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Lit. or Soc. Sci.	3	Lit. or Soc. Sci.	3	Lit. or Soc. Sci.	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Art 61	3	Art 62	3	Art 63	3
Art 71	3	Art 72	3	Art 83	2
Science 1	1	Science 2	3	Science 3	3
	15		15		15

BUSINESS ADMINISTRATION

Associate in Arts FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 1	2	English 2	3	English 3	3
Mathematics 10	3	Mathematics 15	5	Mathematics 20	3
Chem. or Geol.	3	Chem. or Geol.	5	Chem. or Geol.	5
Physical Education	1	Physical Education	1	Physical Education	1
Elective	2	Elective	4	Speech 1	3
Orientation	1			Elective	2
	15		16		17

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Accounting 51	3	Accounting 52	3	Accounting 53	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Literature	3	Literature	3	Literature	3
Economics 51	3	Economics 52	3	Economics 53	3
Elective	4	Elective	4	Elective	4
	16		16		16

PRE-DENTISTRY**Associate in Science****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Chemistry 1	5	Chemistry 2	5	Chemistry 3	5
Mathematics 19	3	Mathematics 15	3	Biology 3	3
Biology 1	3	Biology 2	3	Mathematics 20	3
Physical Education	1	Elective	2	Physical Education	1
Orientation	1	Physical Education	1	Elective	2
	16		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41	4	Physics 42	4	Physics 43	4
Speech	3	Chemistry 51	5	Chemistry 52	5
Psychology 51	3	Psychology 52	3	Psychology 53	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physical Education	1	Physical Education	1	Physical Education	1
Elective	2				
	16		16		16

EDUCATION**Associate in Arts****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Social Science	3	Social Science	3	Social Science	3
Literature	3	Literature	3	Biology 3	3
Biology 1	3	Biology 2	3	Physical Education	1
Art 33	3	Physical Education	1	Music 13	1
Physical Education	1	Music 12	1	Art, 45; Speech 1	2-3
Music 11	1	Art 44	2	Literature	3
Orientation	1				
	18		16		16 or 17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Education 51	3	Education 71	6	Education 53	3
Psychology 51	3	Psychology 52	3	Psychology 74	3
Sociology 61	2	Sociology 62	2	Sociology 63	2
History 51	3	History 52	3	History 53	3
Education 52	3	Science 2	3	Elective	3
Science 1	3			Science 3	3
	17		17		17

ENGINEERING

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English* 3	3
Mathematics* 14	3	Mathematics 16	3	Mathematics 30	5
Mathematics* 24	2	Mathematics* 25	2	Engr. Drawing 13	3
Engr. Drawing 11	3	Engr. Drawing 12	3	Engr. Problems 3	1
Engr. Problems 1	1	Engr. Problems 2	1	Chemistry 3	5
Chemistry 1	5	Chemistry 2	5	Physical Education	1
Orientation 1	1	Physical Education	1		
	18		18		18

*Students with a deficiency in mathematics will replace the indicated course with Mathematics 10 and Physical Education. Fall Quarter; Mathematics 24, Winter Quarter and Mathematics 26, Spring Quarter.

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 51	5	Mathematics 52	5	Mathematics 53	5
Physics 51	5	Physics 52	5	Physics 53	5
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
English 3 or Elective	3	Statics 62	3	Dynamics 63	3
Physical Education	1		16		15
	17				

ENGINEERING TECHNICIAN (Terminal)

Associate in Science

FIRST YEAR

Same as Engineering

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physics 41 or 51	4-5	Physics 41 or 51	4-5	Physics 41 or 51	4-5
Surveying 71	3	Surveying 72	3	Surveying 73	3
Engr. Drawing 51	2	Engr. Drawing 52	3	Engr. Drawing 53	2
Elective*	3	Elective*	3	Elective*	2
	16-17	Physical Education	1		16-17
			17-18		

*If calculus is desired for this elective the student must seek faculty committee approval to carry an overload.

PHYSICAL SCIENCE OR MATHEMATICS*

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Mathematics 14	3	Mathematics 16	3	Mathematics 30	5
Mathematics 24	2	Mathematics 25	2	Chem 3 or Geol. 3	5
Chem. 1 or Geol. 1	5	Chem. 2 or Geol. 2	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Physical Education	1
Orientation	1	Physical Education	1		
	17		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 51	5	Physics 52	5	Physics 53	5
Mathematics 51	5	Mathematics 52	5	Mathematics 53	5
Chemistry 61 and/or electives	5	Chemistry 62 and/or electives	5	Chemistry 63 and/or electives	5
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

*Consult with counselor to include lower division requirements for majors in Geology, Chemistry, Physics, or Mathematics.

*Students with a deficiency in mathematics will make the same substitutions suggested in the Engineering curriculum above.

GENERAL EDUCATION (Terminal) Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Physical Education	1	Physical Education	1	Physical Education	1
Orientation	1	Speech 1	3	Music 30	2
Music 10	2	Music 20	2	Elective	5
Elective	4	Art 44	2		
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
History	3	History	3	History	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Science	5	Science	5	Science	5
Elective	2	Elective	2	Elective	2
Literature	3	Literature	3	Literature	3
	16		16		16

GENERAL LIBERAL ARTS (Transfer) Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	2	English 2	3	English 3	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Chemistry or Geol.	5	Chemistry or Geol.	5	Chemistry or Geol.	5
Physical Education	1	Physical Education	1	Physical Education	1
Mathematics 10	3	Mathematics 15	3	Mathematics 20	3
Orientation	1	Elective	1	Elective	1
	18		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Literature	3	Literature	3	Literature	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Soc. Science	3	Soc. Science	3	Soc. Science	3
Elective	3	Elective	3	Elective	2
	17		17		16

HOME ECONOMICS* Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Home Econ. II	2	Home Econ. 2	5	Home Econ. 3	5
Art 11	3	Art 12	3	Home Econ. 33	2
Elective	3	Chemistry 21	5	Home Econ. 36	3
Intro. to Home Ec.	1	Physical Education	1	Chemistry 22	3
Physical Education	1				
Speech 1	3				
	16		17		18

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Econ. 51	3	Home Econ. 52	3	Home Econ. 53	3
Psychology 51	3	Psychology 52	3	Biology 53	5
Biology 21	5	Chemistry 51	5	Physics 1	5
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Home Econ. 61	3	Home Econ. 12	2	Physical Education	1
	17		16		17

*See page 68 for terminal curriculum

PRE-LAW**Associate in Arts****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Political Sci. 1	3	Political Sci. 2	3	Political Sci. 3	3
History 11 or 1	3	History 12 or 2	3	History 13 or 3	3
Mathematics 10	3	Speech 12	2	Mathematics 20	3
Physical Education	1	Mathematics 15	3	Speech 13	2
Speech 11	2	Physical Education	1	Physical Education	1
Orientation	1	Elective	2	Elective	2
	16		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
History 51	3	History 52	3	History 53	3
Sociology 61	2	Sociology 62	2	Sociology 63	2
Foreign Language or Science	5	Foreign Language or Science	5	Foreign Language or Science	5
English 51	3	English 52	3	English 53	3
Physical Education	1	Physical Education	1	Physical Education	1
	17		17		17

PRE-MEDICAL**Associate in Science****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Chemistry 1	5	Chemistry 2	5	Chemistry 3	5
Mathematics 10 or 14	3	Biology 31	3	Biology 32	3
Physical Education	1	Mathematics 15	3	Physical Education	1
Orientation	1	Physical Education	1	Mathematics 20	3
Elective	3				
	16		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41	4	Physics 42	4	Physics 43	4
Biology 51	5	Chemistry 62	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Elective	7
Chemistry 61	3	Speech 12	2	Speech 13	2
Speech 11	2	Elective	4		
	17		18		18

ONE YEAR PRE-NURSING CURRICULUM

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 10	3	Chemistry 22	5	Chemistry 23	5
English 1	3	English 2	3	English 3	3
Biology 1	3	Biology 2	3	Biology 3	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Chemistry 21	5	Physical Education	1	Elective	2
Orientation	1	Elective	2	Physical Education	1
	18		17		17

MUSIC

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 1	3	English 2	3
Music 1	3	Music 2	3	Music 3	3
Applied Music	3	Applied Music	3	Applied Music	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Physical Education	1
Physical Education	1	Physical Education	1	Soc. Sci. or Lit.	3
Music 10	2	Music 20	2	Music 30	2
Ensemble	1	Ensemble	1	Ensemble	1
Orientation	1				
	17		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Music 31	3	Music 32	3	Music 33	3
Applied Music	3	Applied Music	3	Applied Music	3
Science 1	3	Science 2	3	Science 3	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Ensemble	1	Ensemble	1	Ensemble	1
Conducting	1	Conducting	1	Conducting	1
	17		17		17

PRE-OPTOMETRY

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Mathematics 14 or 24	5	Mathematics 16 and 26	5	Mathematics 30	5
Biology 1	3	Biology 2	3	Biology 3	3
Chemistry 1	5	Chemistry 2	5	Chemistry 3	5
Physical Education	1	Physical Education	1	Physical Education	1
Orientation	1				
	18		17		17

SECOND YEAR*

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Biology 51	5	Physics 42	4	Biology 53	5
Physics 41	4	Physical Education	1	Physics 43	4
Physical Education	1	Speech 1	3	Physical Education	1
		Elective	2		
	16		16		16

*Consult with counselor regarding Mathematics 31, 52, 53.

PHYSICAL EDUCATION

Associate in Arts

FIRST YEAR

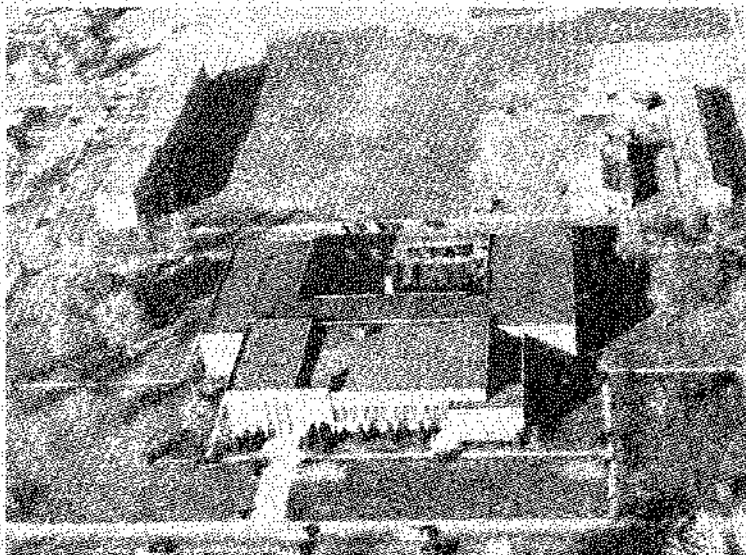
Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Biology 41 (Hygiene)	3	Elective	3	Biology 3	3
Biology 1	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Science 2	3	Elective	2
Physical Education	1	Biology 2	3	Science 3	3
Orientation	1	Physical Education	1	Physical Education	1
Science 1	3				
	17		15		15

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Biology 51	5	Biology 52	3	Education 53	3
Education 51	3	Sociology 62	3	Sociology 63	2
Soc. Sci. or Lit.	3	P.E. 42	2	Soc. Sci. or Lit.	3
Elective	2	Soc. Sci. or Lit.	3	Elective	2
		Elective	2	P.E. 43	3
	16		16		18

*Other subject matter and vocational areas in which students may secure one or two years of lower division course work at Mesa College are:

Biology	Library Science
Chemistry	Literature
Drafting	Mathematics
Dramatics	Medical Technician
Economics	Music Education
English	Philosophy
Geology	Physics
Government	Physical Therapy
History	Political Science
Journalism	Psychology
Laboratory Technician	Sociology
Language	Speech



Aerial View of the Campus

COURSES OF INSTRUCTION

Arts and Science courses offered at Mesa College are grouped in twelve departments or fields of study. The descriptions which follow indicate the content of the courses and list the prerequisites for those which are not beginning courses. Courses are numbered and given titles. For example, Education 52 is a course number and Elementary Methods is the corresponding course title.

In general, the courses numbered from 1 to 50 are designed for freshmen and those numbered above 50, for sophomores. Numbers end in 1, 2, 3, according to the quarter in which they are regularly offered. Some courses, however, are offered two or three quarters during the year so that students may enter at the beginning of any quarter and be able to take a full schedule of work. FWS means fall, winter, spring.

Orientation

1. FRESHMAN ORIENTATION

F. 1 hour

Orientation is a one hour, one quarter (fall) course required of Freshmen. It aids the student in his adjustment to college as it deals with study habits, time budget, relationship of curricular and co-curricular activities, social and personal adjustments. Students meet in small groups, with assigned faculty advisors for this course.



Class in Color Art Design.

Art

The Department of Art functions to enable the student to gain an understanding and appreciation of art principles in graphic and plastic art forms through numerous experiences gained in the basic courses offered. Development of creative ability is stressed in the use of various media and techniques. The art department also serves to promote artistic and cultural growth in the community by participating in art activities and by sponsoring frequent exhibits of student work and traveling exhibits in the college art gallery.

The Art Collection. The art department reserves the right to retain two examples of work from each student to add to its collection.

I, 2, 3. FREEHAND DRAWING. FWS. 2 hours.

A basic course emphasizing art principles in outdoor sketching, drawing of still-life groups, and work from casts. Individuality is encouraged and interpretations expressed in various media, such as pencil, charcoal, pen and ink, colored chalks, lithograph and conte crayons. Part of the laboratory work is done outdoors where the student is trained to see, comprehend, and express graphically studies in compositional arrangements. Analytical observations are made from contemporary materials and reproductions.

Four laboratory hours per week. Laboratory fee, \$4.00 per quarter.

II, 12, 13. COLOR AND DESIGN. FWS. 3 hours.

Design principles are studied thoroughly and designs created in abstract form to express understanding of the principles. At the beginning of the second quarter color theory is introduced, designs made, and color schemes applied in tempera colors. A thorough foundation for advanced work. Laboratory fee, \$6.00 per quarter.

Six laboratory hours per week.

32. ELEMENTARY SCHOOL ART. F. 3 hours

This course is designed especially for those students who plan to teach upon completion of their work in the local college. Methods of teaching art at elementary levels are stressed. Students work in various media in execution of problems pertaining to art in the grades. Recommended to all Education majors.

41, 42, 43. HISTORY OF ART. FWS. 3 hours.

A survey of art of all ages reflecting the various cultures of mankind from the prehistoric to the present.

44, 45. ART APPRECIATION. WS. 2 hours.

A lecture course designed primarily for people who are not art majors or minors but who do have an interest in acquiring information on various phases of art that will bring about an appreciation of their surroundings. Lectures will be given on such phases of art as how to judge paintings; composition, realistic and abstract design; problems of interior decoration; elements of photography and other similar topics.

61, 62, 63. APPLIED DESIGN. FWS. 3 hours.

Advanced design and color in two-and-three dimensional problems, abstract and concrete, involving application to various craft materials. Six laboratory hours per week. Laboratory fee, \$6.00 per quarter.

71, 72. OIL PAINTING AND COMPOSITION. FW. 3 hours.

Composition is stressed in creative problems, understanding of light and dark massing gained through preparatory designs for paintings, oil painting materials studied and paintings executed in full color. Six laboratory hours per week. Prerequisites: Art 1, 2, 3, and Art 11, 12, 13. Laboratory fee, \$6.00 per quarter.

83. LETTERING. S. 2 hours.

Skills in pen and pencil lettering are emphasized. Word construction and layout design are stressed on poster materials and also for reproduction. This course is recommended for business students and for anyone else wishing to acquire skills in lettering.

Biology

1, 2, 3. GENERAL BIOLOGY. FWS. 3 Hours.

A study of the fundamental biological principles involving both plant and animal life; survey of all of the phyla of the animal kingdom and the divisions of the plant kingdom; the place of man in the world of living things; and the relationships of man to other organisms. Students who elect this course may not receive full credit for general college botany or zoology. Two lectures and one laboratory period each week. Laboratory fee, \$5.00 per quarter.

21, 22. GENERAL BOTANY. FW. 5 hours.

The structure and function of the higher plants, including a study of roots, stems, leaves, flowers, and seeds during Fall Quarter. Study of the lower plant forms including the algae, fungi, mosses, and ferns during the Winter Quarter. Three lectures and two laboratory periods each week. A course for agriculture, veterinary, forestry, pre-dental, home economics and botany majors. Laboratory fee, \$5.00 per quarter.

31, 32. GENERAL ZOOLOGY.**WS. 5 hours.**

A detailed study of the fundamental principles of the science of animal biology, and a survey of all of the animal phyla with attention given to both structure and function. Three lectures and two laboratory periods each week. Full credit will not be given to those who have credit in general biology. A course for agriculture, pre-medical, veterinary, pre-dental, home economics, biology, and zoology majors. Laboratory fee, \$5.00 per quarter.

41. HYGIENE.**F. 3 hours.**

Emphasis is placed upon the functional rather than the anatomic phases of personal hygiene. The course is planned to give the student a general understanding of the body and to aid him in the fine art of living. The course is based upon the following units of work: personal hygiene, mental hygiene, and environmental hygiene. The study consists of lectures, collateral reading, and term themes.

51. COMPARATIVE VERTEBRATE ANATOMY.**F. 5 hours.**

A detailed comparative study of the organ systems of the vertebrate animals. The course includes laboratory dissection of representative animals including the dog fish, the salamander, and the cat. Three laboratory periods and two lecture periods each week. Recommended for all pre-medical, physical education, biology and pre-veterinary majors. Prerequisite: 9 hours biology, or zoology. Laboratory fee, \$10.00 per quarter.

52. PRINCIPLES OF HEREDITY.**W. 3 hours.**

Facts and principles of heredity as developed from the study of plants and animals. Human inheritance; genius, mental defects, individual differences, as well as the principles of heredity as applied to agriculture and livestock breeding. Open to all Sophomores.

53. GENERAL BACTERIOLOGY.**S. 5 hours.**

An introductory course consisting of lectures and laboratory work in identification, cultivation, and isolation of molds, yeasts and bacteria. Emphasis upon non-pathogenic forms. Pre-requisite: 9 hours biology, botany, or zoology. Laboratory fee, \$5.00 per quarter.

English

ENGLISH LANGUAGE**61. READING LABORATORY****F. No credit**

A course required of freshmen who are deficient in reading and the fundamentals of English as evidenced by low scores on the entrance test. This course carries no credit but is taken along with English I so that together they carry three hours credit. English 01 meets twice a week for a quarter.

1, 2, 3. ENGLISH COMPOSITION.**FWS. 3 hours.**

The ability to write and to speak correctly is the objective of this course. Emphasis is placed on the use of library facilities, on paragraph development, on the study and discussion of essays of current interest. A study of functional grammar as related to themes and investigative papers follows. Attention is also given to vocabulary, to critical writing, to the study of the informal essay and of a selected novel. Required of all freshmen.

21, 22. WORD STUDY.**F.W. or S. 2 hours**

A course designed to increase the active vocabulary of the student and to give him mastery of words through correlating their spelling, pronunciation, meaning and usage.

31, 32, 33. INTRODUCTION TO JOURNALISM.**FWS. 2-3 hours.**

A survey course in journalism including fundamentals in news and feature writing, journalistic art and photography, advertising and business operations, study of outstanding newspapers, copyreading and proofreading techniques, newspaper layout, radio writing, and history of journalism. The course also includes some work in magazine writing and writing markets. Class meets twice a week; students may earn three hours credit for the course through graded laboratory work on student publications in addition to curricular class assignments.

51, 52, 53. CREATIVE WRITING**FWS. 3 hours**

The student is directed in practice designed to develop correctness and ease in written expression. Expository writing in the Fall Quarter; with emphasis on the form and content of critical and self-analytical themes, is followed by practice in descriptive writing, the personal essay and foundations of fiction in the Winter Quarter; a study of the technique of the short story and narrative composition constitutes the work of the Spring Quarter. Students are advised to plan for at least two of the three quarters, one of which should be the Winter Quarter. Prerequisite: English 1, 2, 3 or English 1 and 2 with permission of instructor.

Literature

31, 32, 33. WORLD LITERATURE.**FWS. 3 hours.**

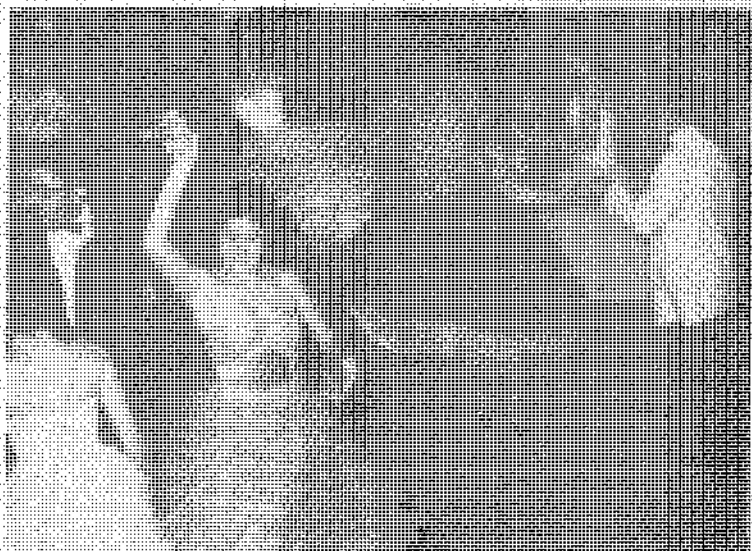
The subject matter of this course, the masterpieces of world literature in translation, acquaints the student with the thinking which has contributed to the cultures of Europe and Asia. Open to freshmen and sophomores.

41. FICTION.**F. 2 hours.**

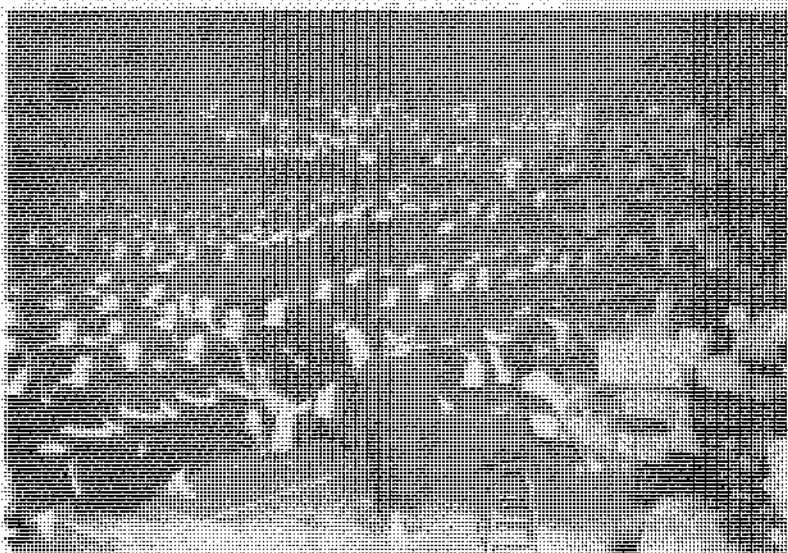
This study of three novels by American, English, and European authors of the nineteenth and twentieth centuries aims to broaden the students' knowledge of the world's best fiction and of the philosophies and styles of the authors. Open to freshmen and sophomores.

42. POETRY.**W. 2 hours.**

This course is planned to develop the students' understanding and appreciation of English and American poetry. The class analyzes poems as to form and philosophy and later the individual student engages in evaluation of representative poetry. Open to freshmen and sophomores.



Jury



Graduates

43. DRAMA. S. 2 hours.

This course requires the reading of eight modern English, American, and European plays and the writing of one critical paper on the drama. Open to freshmen and sophomores.

44. ESSAY AND BIOGRAPHY. S. 3 hours.

This course will give an introduction to the literary essay and its place in literature. The works of Emerson, Arnold and others will be considered. Both biography and autobiography will be discussed with emphasis upon the period represented, as well as upon the life of the individual. Outside readings will be required.

47. DIRECTED READING FWS. 1-2 hours

This course offers the student an opportunity to broaden his interests through reading. A suggestive bibliography for the course includes a wide variety of books listed in eight different fields. For one hour credit the student chooses from this list at least three books which he will read and discuss orally or in a written paper. A student may earn a maximum of two hours of credit by doubling this amount of reading in a single quarter or by registering for one hour in each of two separate quarters. One class meeting a week is scheduled, with individual conferences as necessary.

51, 52, 53. SURVEY OF ENGLISH LITERATURE. FWS. 3 hours.

A course in the development of English poetry and prose from Beowulf to the present. The literature is presented against its political and social backgrounds. This course is designed to meet the requirements of those planning to major in English literature. Prerequisite: English 2.

61, 62, 63. UNITED STATES LITERATURE. FWS. 3 hours.

This course consisting of three quarters presents the development of American prose and poetry from the seventeenth century to the present. It aims to develop appreciation of literature and to increase the student's understanding of America as it is today through knowledge of the thought and culture of the past. Credit will be given for any single quarter. Prerequisite: English 2.

Speech

1. PUBLIC SPEAKING. F, W, or S. 3 hours.

This is a one-quarter course in the fundamentals of public speaking designed for students who are taking a general course or those taking pre-professional courses—agriculture, home economics, education, law, etc. The development of logical, reflective thinking is stressed as the basis for conversational and platform speech in general. Emphasis is placed on the proper use of voice in speech; diction, platform behavior, speech organization and delivery. Students are given numerous opportunities to speak and are led to develop standards of criticism.

11, 12. FUNDAMENTALS OF SPEECH. FW. 2 hours.

A two-quarter course designed for students who plan to major in speech and others who desire a thorough grounding in effective speech as related to personality development. The work stresses the universal means of communication in speech, interest, clarity, and believability. The two quarters should be taken consecutively.

13. ORAL INTERPRETATION.

S. 2 hours.

This course is devoted to a study of the backgrounds and materials for expressive reading of prose, poetry and drama, with practice in platform reading and in radio speech. Diction and quality of tone receive special attention. Prerequisite: Speech 1 or 11 and 12.

41, 42, 43. PLAY PRODUCTION.

FWS. 2 hours.

The main purpose of this three-quarter course is to acquaint the student with the problems in the many phases of play production, and to provide opportunity to study the various means of solution.

51, 52. DISCUSSION AND DEBATE.

FW. 2 hours.

A two-quarter course to train students in the intelligent and effective use of discussion and debate as essential tools of our democratic society. Opportunity is provided for participation in the organization and conduct of group discussions of various types including the forum, the panel, the symposium and the debate. The two quarters should be taken consecutively and 51 is a pre-requisite to 52. Prerequisite: Sophomore standing, or previous training in debating.

Foreign Language

Note:

Students who have had two years of high school study in a language may not receive credit for a beginning course in the same language.

FRENCH**1, 2, 3. FIRST YEAR FRENCH.**

FWS. 5 hours.

An introduction to French through a conversational approach, developing an ability to read French in the short story, newspaper, and periodical. Careful attention is given to pronunciation and to the fundamentals needed for steady progress. Records are used for ear-training in French intonation of speech.

51, 52, 53. SECOND YEAR READING AND CONVERSATION.

FWS. 3 hours.

A course to build up proficiency through reading some of the masterpieces of French literature and current French periodicals. Progress in speaking French is measured by using the tape recorder. Prerequisite: two years high school French or one year college French.

GERMAN**1, 2, 3. FIRST YEAR GERMAN.**

FWS. 5 hours.

This course consists in speaking and writing simple German, and in reading German of medium difficulty. Intensive practice in reading German and in studying the make-up of the German sentence prepares one to take up the study of scientific German often required for a degree in science.

SPANISH**1, 2, 3. FIRST YEAR SPANISH.**

FWS. 5 hours.

Emphasis is given to the oral approach in learning to understand and speak Spanish of medium difficulty. The pronunciation and culture of Spanish America are used as the basis for this study. Intensive reading in text is supplemented by reading of short stories and newspapers. Records are used in developing ability to understand spoken Spanish.

51, 52, 53. SPANISH READING. FWS. 3 hours.

This course is designed to acquaint the student with representative literary works of Spain and South America. Considerable time is given to the reading of current Spanish periodicals and to the practice of spoken and written Spanish. Pre-requisite: two years high school Spanish or one year college Spanish.

Home Economics

01. ORIENTATION (Introduction To) F. 1 hour

An orientation course for Home Economics majors.

4. CLOTHING F. 3 hours

Basic clothing construction processes applied to the individual. Designed for those not majoring in Home Economics. Two hours lecture, four hours laboratory. Laboratory fee, \$5.00 per quarter.

2. TEXTILES. W. 5 hours.

Study of textile fabrics and fibers with emphasis on selection, care and wearing qualities of clothing. Three hours lecture, four hours laboratory. Laboratory fee, \$5.00 per quarter.

3. CLOTHING CONSTRUCTION. S. 5 hours.

Basic construction processes are studied and developed through the making of garments to meet individual needs. Two hours lecture, eight hours laboratory. Laboratory fee, \$5.00 per quarter.

11. COSTUME SELECTION. F. 2 hours.

The relationship of the principles of design to the planning and selection of clothing. Two hours lecture.

12. NUTRITION W. 2 hours

The study of foods with emphasis on the use of food in the body, the planning of well-balanced meals, and the digestion and absorption of foods. Two hours lecture.

21. FOODS FOR SPECIAL OCCASIONS. F. 3 hours.

Planning and preparing foods for special occasions with emphasis on table setting, service and manners. One hour lecture, four hours laboratory. Laboratory fee, \$5.00 per quarter.

32. HOME MANAGEMENT. W. 3 hours.

Study of family-living problems with emphasis on management, child care, personal and family relationships. Three hours lecture.

33. HOUSE PLANNING. S. 2 hours.

A study of house plans, types, and construction practices. Field trips. Two hours lecture, two hours laboratory.

36. HOME FURNISHING. S. 3 hours.

A study of the decoration and furnishing of a home. Artistic appreciation and buying techniques for household furnishings are emphasized. Three hours lecture.

51, 52. FOOD SELECTION AND PREPARATION. FW. 3 hours.

A study of food values and food costs. Principles and techniques of preparing all types of foods with emphasis on nutrition. Laboratory fee, \$5.00 per quarter.

53. PREPARATION AND SERVING OF MEALS. S. 3 hours.

Planning, preparing and serving family meals. Laboratory fee, \$5.00 per quarter.

61. **TAILORING** F. 3 hours
 Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Ec. 2-3. Laboratory fee, \$5.00 per quarter.

Mathematics and Engineering

MATHEMATICS

01. **ALGEBRA** Fall No Credit
 A non-credit course for students lacking adequate mathematical background for Math 10. Offered if sufficient demand.
10. **COLLEGE ALGEBRA** F. or W. 3 hours
 A course for students with only one year of high school algebra. A thorough review of basic fundamentals is given in addition to the topics included in Math 14. Class meets daily. Prerequisite: one year of high school algebra or Math 01.
15. **COLLEGE ALGEBRA** W. or S. 3 hours
 A course for general liberal arts students. It includes graphs, proportion and variation, progressions, logarithms, permutations, and combinations, probability, finance, and simple statistics. Recommended also for pre-medicine, pre-law, and business administration students. Prerequisite: Math 10 or 14.
14. **COLLEGE ALGEBRA** F. or W. 3 hours
 An accelerated college algebra for engineering students, mathematics majors and technicians who need functional mathematics. Emphasis is on application. Course includes review of the elementary topics of linear equations, factoring, fractions, exponents and radicals, logarithms and exponential equations, determinants, quadratic equations and selected systems of quadratics. Prerequisite: Advanced High School Algebra.
16. **COLLEGE ALGEBRA** W. or S. 3 hours
 A continuation of Math 14. Topics included are inequalities, variation, mathematical induction and the binomial formula, progressions, complex numbers, theory of equations, partial fractions, and infinite series. Prerequisite: Math 14 or Math 10.
- 16R. **COLLEGE ALGEBRA** W. No Credit
 A course to be taken in conjunction with Math 16. Two hours per week of remedial work. No credit.
20. **PLANE TRIGONOMETRY** S. 3 hours
 A course for liberal arts students emphasizing the solutions of right and oblique triangles. Prerequisite: Math 10 or 14.
24. **COLLEGE TRIGONOMETRY** F. or W. 2 hours
 Trigonometry as applied to practical and scientific work, with adequate practice in problem solving to insure skill and accuracy in trigonometry calculations. Course includes functions of angles and their relations, logarithms of functions, solutions of right triangles, functions of obtuse angles, and graphical representation of the trigonometric functions. Prerequisite: Advanced High School Algebra or Math 10.
26. **COLLEGE TRIGONOMETRY** W. or S. 2 hours
 Continuation of Math 24. Topics included are functions of multiple angles, solutions of oblique triangles, complex numbers and DeMoivre's Theorem, and introduction to spherical trigonometry. Prerequisite: Math 24.

30. **PLANE AND SOLID ANALYTIC GEOMETRY** F. or S. 5 hours
 Points in rectangular and polar coordinate systems; distance, slope, angle between lines; loci; straight line; circle, conic sections; polar and parametric equations; tangents and normals; curve tracing in various systems; translation and rotation; empirical determinations (curve fitting); direction cosines and non- and spherical coordinates. Prerequisite: Math 26 or consent of instructor.

51, 52, 53. **DIFFERENTIAL AND INTEGRAL CALCULUS.**

FWS. 5 hours.

Functions, the derivative and its interpretations, derivatives of algebraic and transcendental functions, maxima and minima; rates; applications; derivatives of higher order and the differential and applications are topics for the first quarter's work. The second quarter is devoted to the study of the integral and the definite integral with applications. During the third quarter further application of the integral, series, expansion of functions into series, ordinary differential equations, and a brief study of partial derivatives and multiple integrals are the topics studied. Prerequisite: Math 30 or the consent of the instructor.

ENGINEERING

1, 2, 3 **ENGINEERING PROBLEMS**

FWS. 1 hour

A course which emphasizes proper methods of problem solving correct form, and which introduces some of the elements of various fields of engineering. The first quarter's work stresses correct form, logarithmic solutions, and remedial mathematics. The second quarter is devoted to the study of the slide rule; the third quarter to elementary statics and dynamics. Open to engineering students only.

11, 12 **ENGINEERING DRAWING**

FS. 3 hours

Use of drawing instruments, lettering, principles of orthographic projections, dimensions, reading of drawings, auxiliary and sectional views are stressed in Course 11. Isometric, dimetric, oblique, cabinet drawing, linear perspective, working drawings, development of surfaces, tracing and blue printing are included in Course 12. Prerequisite for course 13: Engineering Drawing 11 and 12.

12. **DESCRIPTIVE GEOMETRY**

W. 3 hours

Orthographic projection of points, lines, planes, and curved surfaces mostly in the third quadrant of projection are studied. The change of position method is applied to a series of practice problems and practical problems. Practical problems are presented as they would be encountered in engineering practice. Prerequisite: Engineering Drawing 11.

51, 52, 53. **ADVANCED ENGINEERING DRAWING** FWS. 3 hours

Advanced drawing is offered in three fields: architectural, machine and shop drafting. The terminal student may compile a total of 27 quarter hours of credit in this course, nine in each of the fields. Course letter designations will be E (a) for the architectural drafting series; E (m) for the machine drafting; and E (s) for the shop drafting. The course will be of a project type in which the student will be assigned problems in the field of his choice and will be required to make complete working drawings of each problem. Prerequisite: E 11, 12, and 13.

63. STATICS

W. 3 hours

Topics include principles of statics, study of vectors (their resolution and composition), forces and couples, force systems and their resultants, force systems in equilibrium (truss analysis, flexible cables, cranes), static friction (pivot and belt), moments of inertia and virtual work. Prerequisite: Math 51 and Physics 51, and to be taken concurrently with Math 52.

63. DYNAMICS

S. 3 hours

Principles of dynamics. Topics include moments of areas, centroids, moments of inertia, radii of gyration of areas and masses, angular and linear displacement, velocity and acceleration of particles and rigid bodies in motion, simple vibrations, and applications of principles of force-mass-acceleration, work-kinetic energy, and impulse-momentum to solution of problems of force systems acting on moving particles and rigid bodies. Prerequisite: E 62 and Math 52.

71, 72. SURVEYING AND MAPPING

F. W. 3 hours

One lecture-recitation period and two laboratory periods per week. The course includes surveying theory, practice, and computations; the use and adjustment of instruments; and the study of land surveying, topographic surveying and drafting, city surveying, and field astronomy. Prerequisite: Math 24 and 26.

73. TOPOGRAPHIC SURVEYING

S. 3 hours

One lecture-recitation and two laboratory periods per week. The course includes surveying and mapping methods including control surveys, astronomical observations, map projections, map drafting, and model construction, with emphasis on use and types of topographic maps. Prerequisite: E 71 and 72.

74. ROUTE SURVEYING

S. 3 hours

To be taken following or in conjunction with E 73. One lecture-recitation period and two laboratory periods per week. The course includes route surveying for highways, railways, and canals; calculations and field layouts for simple, compound, reversed, and spiraled curves; establishment of profiles; selection of grades; vertical curves; cross-sectioning and slope staking; and the determination of volumes and costs of earthwork by mass diagrams. Offered only if sufficient demand.

Music

THEORY AND MUSIC**1, 2, 3. ELEMENTARY THEORY**

FWS 3 hours.

This course is designed to give a thorough ground work in the melodic, rhythmic, and harmonic elements of music. Keys, scales, intervals, triads, modes, rhythm patterns, etc. are studied in detail. These are correlated with such activities as sight singing, keyboard exercises, harmonic, melodic, and rhythmic dictation and recitation. Simple four-part harmony from melody and figured bass is introduced and developed.



Increasing Supply

12. BASIC FUNDAMENTALS.

THREE 1 hour.

Designed for those students who have little previous knowledge of music. Addresses the basic student area: notation, reading, key signatures, intervals and chords. Fundamentals of scales and voice, and a description of common instrumental instruments will be presented.

13. 13. MUSIC EDUCATION METHODS.

THREE 1 hour.

A course planned for education majors. No previous musical training required. Philosophy of music education; review of music fundamentals; study of the child's voice; primary music methods of teaching song and piano songs; treatment of non-singers; organization of music groups; teaching music appreciation to children.

14. 14. HISTORY OF MUSIC.

THREE 1 hour.

This course makes a survey of the history of musical development from prehistoric to modern times. Musical eras are studied in relation to the social and economic conditions of the time. Lectures and readings are illustrated with recordings, films and guest performances. The course is open to non-music majors and minors.

51, 52, 53. ADVANCED THEORY. FWS. 3 hours.

A study of harmonic resources, from primary seventh chords to the higher discords and altered chords. Four-part harmony from melody and figured bass. The detailed treatment of various methods of modulation. Continued drill in sight singing, and melodic and harmonic dictation. Original composition in the simple forms.

67, 68, 69. CONDUCTING FWS. 1 hour

An introductory study of choral, band, and orchestral conducting.

ENSEMBLE MUSIC

Besides regularly scheduled class meetings, members of ensembles are required to attend special rehearsals and to take part in programs.

31, 32. COLLEGE BAND FW. 1 hour

Open to all students who demonstrate sufficient ability to study, rehearse, and present advanced forms of concert and show band literature.

41, 42, 43. CIVIC SYMPHONY ORCHESTRA FWS. 1/2 hour

The Mesa College Civic Symphony Orchestra draws its personnel from the professional, amateur, and student musicians of Grand Junction and other Western Slope communities. At least two concerts are presented during the school year. Nationally known musicians appear with the orchestra as guest soloists.

61, 62, 63. COLLEGE CHOIR FWS. 1 hour

Open to all men and women who wish to sing the best in mixed choir literature. This group performs several concerts and actively participates in the Junior College Choir Clinic held each spring.

71, 72, 73. INSTRUMENTAL ENSEMBLE FWS. 1/2 hour

Groups are organized based upon the talents and interests of the students. These groups may consist of various combinations of woodwind, string, brass, and percussion instruments.

81, 82, 83. VOCAL ENSEMBLE FWS. 1/2 hour

Vocal ensembles include men's and women's trios, quartets, double quartets, etc. Groups organized are based upon the talents and interests of the students.

91, 92, 93. PIANO ACCOMPANYING. FWS. 1/2 hour.

A course designed for giving piano majors actual experience in supervised accompanying.

APPLIED MUSIC

Individual music lessons are given in piano, voice, and the instruments of the band and orchestra. A fee of \$20.00 per quarter is charged for each lesson per week. Credits in each of the applied music courses are given as follows:

- a. Elementary students, and non-music majors, one lesson per week with one hour daily practice assigned. (Indicated by the letter "e" following the course number)—1 hour credit.
- b. Intermediate and advanced music majors, one lesson per week with two hours daily practice assigned—2 hours credit. Two lessons per week with three to four hours daily practice assigned—4 hours credit.

4c, 5e, 6e, 54c, 55e, 56e. VOICE	FWS. 1 hour.
4, 5, 6, 54, 55, 56. VOICE	FWS. 2 hours
11e, 15e, 16e, 64e, 65e, 66e. PIANO	FWS. 1 hour
14, 15, 16, 64, 65, 66. PIANO	FWS. 2 or 4 hours.
17e, 18e, 19e. ORGAN	FWS. 1 hour.
17, 18, 19. ORGAN	FWS. 2 hours.
24e, 25e, 26e, 74e, 75e, 76e. STRING INSTRUMENTS	FWS. 1 hour.
24, 25, 26, 74, 75, 76. STRING INSTRUMENTS	FWS. 2 or 4 hours.
34e, 35e, 36e, 84e, 85e, 86e. BRASS INSTRUMENTS	FWS. 1 hour.
34, 35, 36, 84, 85, 86. BRASS INSTRUMENTS	FWS. 2 or 4 hours.
44c, 45e, 46e, 94e, 95e, 96e. WOODWIND INSTRUMENTS	FWS. 1 hour.
44, 45, 46, 94, 95, 96. WOODWIND INSTRUMENTS	FWS. 2 or 4 hours.
27, 28, 29, 77, 78, 79. PERCUSSION	FWS. 1 or 2 hours.

Physical Education

The Department of Physical Education aims to provide an instructional program in physical education activities. It is designed to secure optimum health and physical fitness, based upon the needs and interests of the students. All regular or full-time Freshmen, except one-year business students and adults over twenty-five, are required to take physical education each quarter unless physically unable, as evidenced by a doctor's certificate, to participate in physical activities.

PEM 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR MEN. FWS. 1 hour.

Courses offered for beginners and advanced students in tennis, basketball, touch-football, tumbling, football and varsity sports. Participating students provide their own personal equipment.

PEW 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR WOMEN. FWS. 1 hour.

PEW 1 & 51. Fall quarter includes such activities as tennis, volleyball, archery, ping pong and shuffleboard.

PEW 2 & 52. Winter quarter includes such activities as basketball, volleyball, badminton, and tumbling.

PEW 3 & 53. Spring quarter includes such activities as softball, golf, archery, and tennis.



A Chemistry Laboratory

- PE 22. SOCIAL DANCING. F. 1 hour.
- PE 33. FOLK AND SQUARE DANCE. W. 1 hour.
- PE 44. SKIING. W. 1 hour.
- PE 42. INTRODUCTION TO PHYSICAL EDUCATION. W. 3 hours.
This course is to acquaint the student with the functions, scope, and objectives of physical education.
- PE 43. OFFICIATING AND MANAGEMENT OF SPORTS. S. 3 hours.

Physical Science

- 1, 2, 3. SURVEY OF PHYSICAL SCIENCE. FWS. 3 hours.

A logically developed course in physical science rather than a "cut-down" version of the elementary courses in the various departments represented. Its aim is to give a definite conception of the physical world and some appreciation of the scientific method and its sociological significance. Sequence of topics will be as follows: Course 1 includes force, motion, radiant energy, light, heat, and electricity; course 2 includes fluids, sound, and chemistry; and course 3 includes astronomy, geology, and meteorology. Not open to students who are taking or have taken another physical science course in college.

CHEMISTRY**1, 2, 3. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. FWS. 5 hours.**

Lectures, recitations and quiz sections, laboratory. Fundamental principles and applications of general inorganic chemistry; atomic structure; periodic table; gas laws. The spring quarter is devoted to a study of the metallic elements and the laws of chemical equilibrium accompanied in the laboratory by a systematic procedure for separation and identification of the common cations and anions. Designed for chemistry, medicine, engineering, or other science majors. Laboratory fee, \$5.00 per quarter.

21, 22, 23 GENERAL CHEMISTRY FWS. 5 hours

Lectures and laboratory. Fundamental principles of general inorganic chemistry and applications in science and society; atomic structure; periodic tables, gas laws; metallic and non-metallic elements and their principle compounds. The third quarter is largely an introduction to Organic and Physiological Chemistry. Designed for students in Liberal Arts, Veterinary Medicine, Homemaking, and Agriculture. Laboratory fee, \$5.00 per quarter.

51, 52. ORGANIC CHEMISTRY. WS. 5 hours.

Lectures, discussion, and laboratory exercises in the preparation and reactions of aliphatic and aromatic compounds of carbon. Syntheses of simple drugs and dyes are carried out in the laboratory and a discussion of foods and vitamins is included. Prerequisite: Chemistry 2 or 22. Laboratory fee, \$5.00 per quarter.

61, 62. QUANTITATIVE ANALYSIS. FW. 3 hours.

Elementary volumetric and gravimetric theory, problems, and laboratory techniques. Two hours lecture, three hours laboratory, Fall Quarter; One hour lecture, six hours laboratory, Winter Quarter. Prerequisite: Chemistry 3 and a usable knowledge of logarithms. Laboratory fee, \$5.00 per quarter.

63. QUANTITATIVE ANALYSIS. S. 3 hours.

A course emphasizing the practical laboratory applications of analytical chemistry. One hour lecture or recitation per week and 6-9 hours of laboratory. To be offered only when justified by sufficient demand. Prerequisite: Chemistry 62. Laboratory fee, \$5.00 per quarter.

GEOLOGY**1. INTRODUCTION TO PHYSICAL GEOLOGY. F. 5 hours**

A general treatment of physical geology. A study of the earth, its materials, surface features, structure, and the geologic processes involved. Common rocks and rock-forming minerals are studied in the laboratory. Four lectures and one 2-hour laboratory or field trip per week. Laboratory fee, \$5.00 per quarter.

2. HISTORICAL GEOLOGY W. 5 hours.

A study of the history of the earth from its origin to the present, including the evolution of life forms as revealed in the fossil record. Four lectures and one 2-hour laboratory or field trip per week. Prerequisite: Geology 1. Laboratory fee, \$5.00 per quarter.

3. GEOLOGIC PROCESSES.**S. 5 hours.**

A more detailed study of geologic processes with emphasis on diastrophic processes and the development and interpretation of land forms, including practice in the use and interpretation of topographic maps. Three lectures and two 2-hour laboratory periods or field trips per week. Prerequisite: Geology I. Laboratory fee, \$5.00 per quarter.

PHYSICS**1. INTRODUCTION TO PHYSICS.****S. 5 hours.**

A course in physics consisting of lectures, demonstrations, discussions, and laboratory work designed for the non-science major with special emphasis on the understanding of underlying principles and methods of physics and their application to life in modern times. The human body and its physical environment constitute the central theme. Laboratory fee, \$5.00 per quarter.

41, 42, 43. GENERAL PHYSICS.**FWS. 4 hours.**

A course designed primarily for students taking pre-medicine or pre-dentistry. Fundamental principles and relationships are stressed with applications being of secondary importance; there is a minimum use made of mathematics. The topics studied are mechanics, heat, electricity and magnetism, sound, light, and atomic physics. Three discussion and lecture periods and one laboratory period per week. Prerequisite: Trigonometry. Laboratory fee, \$5.00 per quarter.

51, 52, 53. ENGINEERING PHYSICS.**FWS. 5 hours.**

This course is designed for engineering students and physical science majors. The fall quarter is devoted entirely to the study of mechanics; topics studied during the winter and spring quarters are heat, electricity and magnetism, sound, light, and atomic physics. Both principles and applications are stressed. Four lecture and discussions periods per week and one laboratory period. Note: Calculus must be taken parallel with this course. Laboratory fee, \$5.00 per quarter.

*Social Science***1, 2, 3. SOCIAL SCIENCE SURVEY****FWS. 3 hours**

This course is designed to introduce the student to the field of social science. (Not for social science majors). The fields of sociology, economics, and political science are presented, with a briefer view of anthropology and international relations. The material is based largely on present day problems and seeks to help the student understand and solve common social problems.

ECONOMICS**43. CONSUMER ECONOMICS.****S. 3 hours.**

A course designed for all college students including the practical aspects of such consumer problems as taxes, insurance, personal changes in the business cycle on wages. Consideration will be given

to the buying and selling practices of business firms as related to consumers; financial problems of consumers; personal accounting and budgeting; and sources of information for consumer goods.

51, 52, 53. PRINCIPLES OF ECONOMICS. FWS. 3 hours.

A course dealing with the structural organization of modern economic society, the ways in which it functions, the maladjustments in its operation resulting in problems calling for remedial action, and the policies pursued in attempts to make it function better. The study includes an analysis of rent, interest, profits, wages, prices, banking, foreign trade and the economic function of government. Not open to freshmen.

EDUCATION

51. INTRODUCTION TO EDUCATION. F. 3 hours.

A short survey of the field of education. Important aspects considered are: History of American Education, present philosophies of education, major problems of education, present practices, and the school as a social institution. Required of education majors. Special fee, \$1.00.

52. ELEMENTARY METHODS. F. 3 hours.

Methods used in elementary instruction are examined in this course. Problems having to do with assignment, motivation, learning, appreciation drill, and guidance in study are considered. Special fee, \$1.00.

53. CLASSROOM MANAGEMENT. S. 3 hours.

Principal elements in successful classroom activities are presented. Included are such factors as the daily schedule, playground activities, health programs, curriculum development, records and reports, tests and measurements, and problems of discipline. Special fee, \$1.00.

71. STUDENT TEACHING. W. 6 hours.

This course includes both theory and practice of instruction. Student teachers must teach five half-day periods a week in the public schools of Grand Junction. They must observe the work of a qualified teacher of a given grade or subject and then must teach independently. This laboratory work is supplemented by discussions and lectures. Student teachers are supervised by the regular instructors and principals as well as by a college representative. The course is required of all students expecting to teach without further training. Prerequisite: Educ. 52. Special fee, \$1.00.

HISTORY

1, 2, 3. MODERN EUROPEAN HISTORY. FWS. 3 hours.

This course deals with the development of Europe since the opening of modern times. It seeks to give the student a background which helps to clarify the present world situation. It deals with political, social, and economic movements. It traces the development of the spirit of nationalism, the rise of the middle class, the economic revolution, and changing political concepts. Contemporary movements and materials are studied, as well as textbooks and assigned readings.

11, 12, 13. WORLD CIVILIZATIONS.**FWS. 3 hours.**

This course seeks to give the student a background in political, economic, social, cultural, and military history of mankind from ancient to modern times, with particular emphasis being given to the development of western civilization. Class discussion, reports, lectures, and assigned readings are used to accomplish this purpose.

41, 42, 43. CURRENT AFFAIRS.**FWS. 2 hours.**

The purpose of this course is to acquaint the student with the problems of the day. In addition to studying week-to-week domestic and international happenings, the course stresses reasons for, and backgrounds of these events. Economic and social movements, as well as political problems are discussed. Current periodicals are the chief source of materials. May be repeated for credit.

51, 52, 53. UNITED STATES HISTORY.**FWS. 3 hours.**

This is a general course in the history of the United States, primarily for Sophomores. It deals with developments from the opening of the American continent to the white man to the present time. The establishment and development of American institutions is stressed throughout. Economic trends, the development of democracy, the westward movement of people, the rise of interest and participation in world affairs are typical of movements studied. Present day political, economic and social problems and world issues are studied. Class discussion, reports, lectures, textbooks, a wide range of reading in books and periodicals are used.

PHILOSOPHY**51. INTRODUCTION TO PHILOSOPHY****W. 3 hours**

A study of the basic teachings of the great philosophers in the fields of logic, ethics, esthetics, politics, and metaphysics. Reading, lecture and discussion are used to give the student an introductory knowledge of important philosophical concepts and to aid the student in defining the elements of his own philosophy of life.

POLITICAL SCIENCE**1, 2, 3. AMERICAN GOVERNMENT.****FWS. 3 hours.**

A course which treats of the framework and functions of local, state, and national government. An attempt is made to bring into relief the contemporary scene, economic and social, within which the government operates and within which the student will be called upon to perform the duties of citizenship.

PSYCHOLOGY**51, 52, 53. GENERAL PSYCHOLOGY.****FWS. 3 hours.**

A Sophomore course designed to give the student a fundamental understanding of the causes and methods of behavior, and to give him practical suggestions for the control and improvements of his own life. Factors in development, motivation, emotions, the

special senses, attention and perception, learning, and thinking. The role of psychology in the solving of personal and social problems including a study of individual differences, intelligence, dynamic factors in personality, and social and vocational adjustment.

74. EDUCATIONAL PSYCHOLOGY. S. 3 hours.

The psychological principles of experiments underlying the social, emotional and intellectual development of the child as these relate to educational theory and practice. It is recommended that those students who are primarily interested in education take this course as a continuation of Psychology 51 and 52, which is prerequisite.

SOCIOLOGY

61, 62. GENERAL SOCIOLOGY FW. 2 hours

A survey of concepts in the study of sociology, acquainting students with terminology, basic principles involved, and important theoretical concepts. Includes a study of basic group relationships, ranging from family to world; with approaches from the standpoint of race, nationality, population factors, social mobility, ecology, and mass behavior patterns.

63. SOCIAL PROBLEMS S. 2 hours

Introductory approach to some of the major social problems of the modern world, including crime, poverty, divorce, disease, mass conformity, political apathy, sub-standard housing, and mental health. Students prepare papers on special studies in addition to regular textbook assignments, discussions, and lectures.

44. MARRIAGE AND THE FAMILY. S. 3 hours.

The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family, efforts at stabilization, and the problem of adjustment to a changing society.



SCHOOL OF BUSINESS

The basic purpose of the Mesa College Business School is to provide young men and women with the necessary specialized training for a future of self-reliance and economic opportunity. Terminal programs in business education and skills are offered to those who desire to prepare for clerical positions with business concerns, educational institutions, and governmental agencies. They provide the necessary preparation for beginning bookkeepers, assistant accountants, stenographers, typists, filing clerks, business machine operators, and other types of business and office workers.

A student is permitted to select, from a variety of courses, those which meet his own individual needs. Students may enroll for one or two years, depending on the amount of preparation needed or desired. Appropriate diplomas will be given those who complete the recommended curriculum. The services of the placement bureau are at the disposal of qualified students free of charge.

PROGRAMS.

Two types of terminal programs are planned, one for the student who has not had previous training in business, and one for the student who has completed part of his business training in high school or elsewhere.

Those students who look forward to promotion from routine stenography or bookkeeping to more responsible secretarial or junior executive positions will find the two year program a splendid preparation for such promotion.

BUSINESS ADMINISTRATION.

Students who plan to transfer to Schools of Business Administration or work toward a degree or specialization in some branch of commerce are advised to register in the School of Arts and Sciences for their first two years.

DEGREE.

The Associate in Commerce is granted to two groups of graduates: (1) those who follow the accounting option and (2) those whose interests are in the secretarial field. Each group must meet the general requirements for graduation as stated on page 23 and complete Business Mathematics; 18 hours in the social sciences and/or literature; 9 hours in mathematics and/or science which may include Home Economics 2, 12, 51, 52 or 53; and two courses in Business Machines (which may include Machine Transcription).

Specific field requirements for those in Accounting include: Accounting 51, 52, 53; Business Law I and II; Intermediate Typewriting.

Specific requirements for secretarial students are: Accounting 13 or equivalent; Secretarial Science 11, 12, 23, 31 and 33 and Business Law I.

COURSE DESCRIPTIONS

Accounting

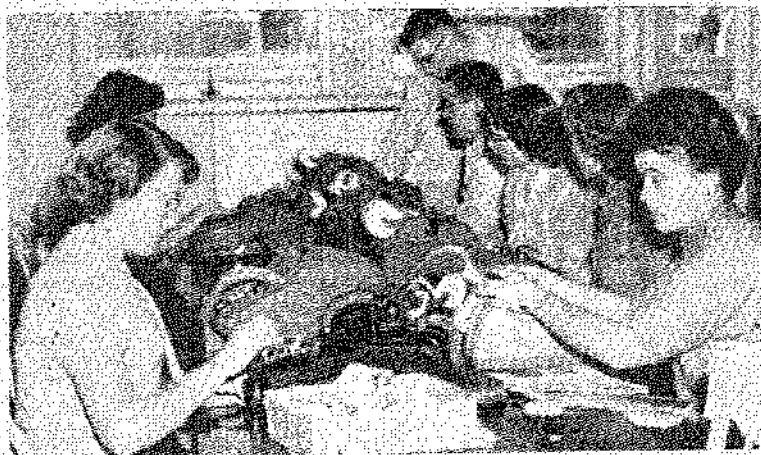
- 13. SECRETARIAL ACCOUNTING** **S. 3 hours.**
 For those who plan to go into secretarial office work and may be required to keep the accounts of a dentist, lawyer, or other professional individual, or for those who will need to keep financial records for themselves or others. It is a terminal course and is not required for those who plan to take Principles of Accounting.
- 51, 52, 53. PRINCIPLES OF ACCOUNTING.** **FWS. 3 hours.**
 Intended for those students who plan to major in business administration or elect the two-year accounting option. The course includes the development of the fundamental principles of double-entry bookkeeping, the balance sheet, profit and loss statements, controlling accounts, partnership accounting, opening corporation books, surplus, bonds, bond sinking funds, and managerial uses of financial statements. Class meets daily. Special fee, \$3.00 per quarter.

English

- 1, 2, 3. ENGLISH COMPOSITION** **FWS. 3 hours**
 The ability to write and to speak correctly is the objective of this course. Emphasis is placed on the use of library facilities, on paragraph development, on the study and discussion of essays of current interest. A study of functional grammar as related to themes and investigative papers follows. Attention is also given to vocabulary, to critical writing, to study of the informal essay and of a selected novel. Required of all freshmen.

General Business

- 01. BUSINESS ORIENTATION** **F. 1 hour.**
 An orientation course planned to acquaint the student with different phases of American business and to aid him in his adjustment to college. Required of freshmen.
- 2. OFFICE PROCEDURES.** **F. 2 hours.**
 Particular emphasis is given to such topics as general office knowledge, business papers and forms, and personal characteristics of an office worker. Special fee, \$3.00 per quarter.
- 10. WORD STUDY. (Business)** **F. 2 hours**
 A study of words: their spelling, meaning, derivation, and pronunciation. Emphasis will be placed on business terms. Open to all students but required of all business students who do not pass the spelling entrance examination.
- 21, 22, 23. BUSINESS MACHINES.** **FWS. 2 hours.**
 Fundamental skills are developed in such machines as the ten-key adding machine, key-driven calculators, electric and crank-driven calculators, and posting machine. A student earns two hours for each machine completed. Class meets daily. Special fee, \$5.00 per quarter.



A Class in Business Machines

37. **INCOME TAX.** W. 3 hours.
The tax law applied to individuals and small businesses.
36. **PERSONAL FINANCE & MONEY MANAGEMENT.** S. 3 hours.
A course designed to help those who want to do a better job of managing personal finances. The course will deal with the everyday financial problems that beset every man and woman, young or old. It will give principles to aid in bringing about maximum comfort, enjoyment, and security to the individual regardless of the size of his income.
41. **BUSINESS MATHEMATICS.** F. 4 hours.
This course provides a review of the fundamentals of the various types of mathematical problems occurring in present day business. The course is required of those majoring in business. Class meets daily.
42. **FILING.** W. 2 hours.
Alphabetic, numeric, geographic, subject, and soundex systems of filing are studied. Practice is given in the finding of correspondence as well as in the filing of material.
51. **BUSINESS LAW I.** F. 3 hours.
A study of: Contracts in general; Relation of Principal and Agent; Employer and Employee; Negotiable Instruments; Principal and Surety; Insurer and Insured; Bailor and Bailee.
52. **BUSINESS LAW II.** W. 3 hours.
Contracts continued; Carriers and Shippers; Vendor and Vendee; Partnerships; Corporations; Property; Deeds of Conveyance; Mortgages; Landlord and Tenant; Torts; Business Crimes; Bankruptcy. Prerequisite: Business Law I. Required for A.C. degree, Accounting, option.

Secretarial Science

1, 2. BEGINNING TYPEWRITING **FWS. 2 hours.**

A two-quarter course for those students with no previous training in typiug. Class meets daily. Special fee, \$5.00 per quarter.

11. INTERMEDIATE TYPEWRITING. **FWS. 2 hours**

Review of letter styles, forms of punctuation, and other fundamentals. Intensive drill on letter placement. Development of a speed required in the average office. Prerequisite: SS. 2 or equivalent. Class meets daily. Special fee, \$5.00 per quarter.

12. ADVANCED TYPEWRITING. **W. 2 hours.**

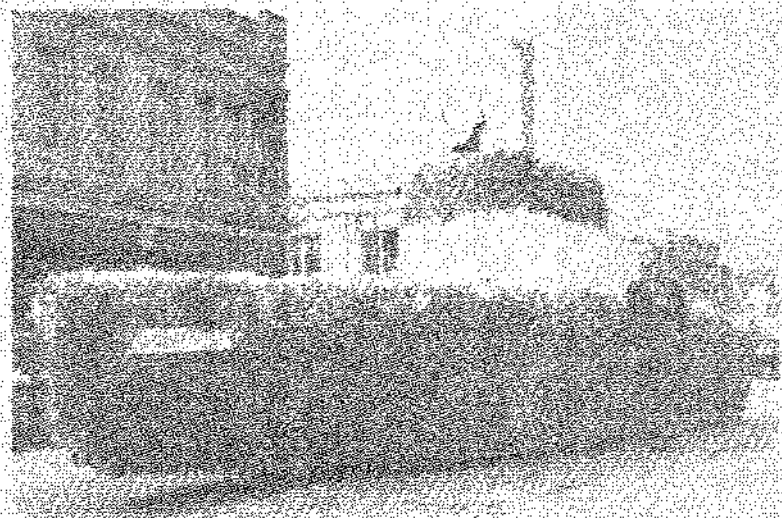
Study of tabulations, telegrams, legal forms, and mimeograph work. Development of speed on varied material, rather than straight-copy work. Prerequisite: S. S. 11. Class meets daily. Special fee, \$5.00 per quarter.

13. MACHINE TRANSCRIPTION **S. 1 hour**

Office proficiency in machine transcription is developed. Instruction is given in the use of a tape machine and the dictaphone unit. SS 13 may be substituted for one course in machines. Prerequisite SS 11. Special fee, \$5.00 per quarter.

21, 22. SHORTHAND THEORY. **FWS. 4 hours.**

A two-quarter course for those students with no previous knowledge of shorthand. The principles of shorthand are studied and a limited amount of dictation is given during second quarter. Class meets daily.



Homecoming Float

23. BEGINNING DICTATION.

FS. 4 hours.

Review of the principles of shorthand. Dictation is given at the rate of 80 words. Machine transcription, with special attention to letter arrangement. Prerequisites: S.S. 22 or equivalent, S.S. 11 or enrollment in S.S. 11. Class meets daily. Special fee, \$3.00 per quarter.

31. INTERMEDIATE DICTATION AND TRANSCRIPTION.

W. 4 hours.

A dictation speed of 90-100 words a minute is attained, with a readable transcript. Prerequisite: S.S. 23 or equivalent. Class meets daily. Special fee, \$3.00 per quarter.

32. ADVANCED DICTATION AND TRANSCRIPTION. S. 4 hours.

Continuation of dictation and transcription practice. Dictation at 110-120. Transcription at an acceptable office rate. Vocational vocabulary is studied. Prerequisite: S.S. 31. Class meets daily. Special fee, \$3.00 per quarter.

33. SECRETARIAL PRACTICE.

S. 3 hours.

The application of typing and shorthand to office situations. Business dress, business ethics, personality development. Prerequisite: S.S. 23 or enrollment in S.S. 23.

*Suggested Type Curriculum in Business***ACCOUNTING (9 Months)**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Accounting 51	3	Accounting 52	3	Accounting 53	3
Business 03	1	Business 12	3	English 3	3
English 1	3	English 2	3	Business 23	2
Business 41	4	Business 22	2	Soc. Science 11	2
Sec. Science 1	2	Sec. Science 2	2	Elective	6
Elective	2	Elective	3		
Bus. 10	3				
	17		16		16

ACCOUNTING (18 Months)**Associate in Commerce****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 51	1	Business 52	3	Soc. Science 11	2
Accounting 51	3	Accounting 52	3	Accounting 53	3
English 1	3	English 2	3	English 3	3
Business 41	4	Business 22	2	Business 23	2
Math. or Science	3-5	Math. or Science	3-5	Math. or Science	3-5
Business 10	2	Elective	3	Elective	3
	16-18		17-16		16-15

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Econ 51	3	Econ 52	3	Econ 53	3
Business 51	3	Business 52	3	Speech 1	3
Literature*	3	Literature*	3	Literature*	3
Psychology	3	Psychology	3	Psychology	3
Elective	3	Elective	3	Elective	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

Suggested Electives: Consumer Economics, Insurance, Personal Finance and Money Management, Current Affairs, and General Sociology.

*Literature 61, 62, 63 is recommended for students planning to transfer to the University of Denver.

CLERICAL COURSE (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 01	1	Business 42	2	Accounting 13 or 51	3
English 1	3	English 2	3	English 3	3
Sec. Science 1	2	Sec. Science 2	3	Sec. Science 11	2
Business 2	2	Business 22	2	Speech 1	3
Business 10	2	Elective	7	Elective	5
Business 41	4				
Elective	2		16		16
	16				

STENOGRAPHIC COURSE (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 01	1	Speech 1	3	Accounting 13 or 51	3
English 1	3	English 2	3	English 3	3
Business 2	2	Business 42	2	Business 23	2
Sec. Science 11	2	Elective	2	Business 41	4
Sec. Science 23	4	Sec. Science 12	2	Sec. Science 32	4
Business 10	2	Sec. Science 31	4		
Elective	2		16		16
	16				

SECRETARIAL COURSE (18 Months)

Associate in Commerce

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Sec. Science 1	2	Sec. Science 2	2	Sec. Science 11	2
Sec. Science 21	4	Sec. Science 22	4	Sec. Science 23	4
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3
Business 01	1	Physical Education	1	Physical Education	1
Business 41	4	Speech 1	3	Accounting 13 or 51	3
	17		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Science or Math	3-5	Science or Math	3-5	Science or Math	3-5
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3
Physical Education	1	Sec. Science 12	2	Sec. Science 13	1
Business 21	3	Sec. Science 31	4	Sec. Science 33	3
Business 23	2	Elective	2-4	Business 23	2
Elective	2-4		16	Elective	2-4
	16				16

SUGGESTED ELECTIVES: Accounting, Agricultural, Art, Consumer Economics, Economics, Home Economics, Income Tax, Insurance, Language, Machine Transcription, Music, Personal Finance, and Psychology.



Self Government in the Women's Dormitory

VOCATIONAL EDUCATION

The purposes of Vocational Education are in accord with the purposes of Mesa College in general but in attempting to train students for better citizenship and more satisfying personal and social living, this department gives specific vocational education and assists students in reaching their goal of vocational competence.

Credit for work taken in the Vocational Department is of two types—terminal and transfer—and is given according to the objectives of the students enrolled.

AGRICULTURE

The course offered at Mesa College is designed to meet the needs of three groups: students interested in a two-year course in practical agriculture; students who plan to take their initial two years of college agriculture in their home community and later transfer to a senior college; and agricultural producers interested in special short courses.

HOME ECONOMICS

The transfer course in Home Economics is based on the requirements for the first two years of a senior college and when completed enables the student to transfer to a specialized curriculum in one of the various fields which offer opportunities for personnel trained in this field.

For the terminal student a course is designed to prepare for home-making and for gracious living. Several short-term courses are offered not only for the regular student but also for adults in the community. (See page 45 for course descriptions).

PRACTICAL NURSING

A twelve month course has been designed to offer training to qualified women in the basic principles of practical nursing and to prepare them for employment in hospitals and doctors' offices as trained practical nurses. A more complete description may be found on the following pages.

TYPE CURRICULUMS

AGRICULTURE (Transfer)*

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Agriculture 1	5	Mathematics 15	3	Mathematics 20	3
Biology 21	5	Biology 22	5	Agriculture 3	2
Mathematics 10	3	Chemistry 21	5	Agriculture 23	5
English 1	3	English 2	3	Chemistry 22	5
Agriculture 01	1	Physical Education	1	English 2	3
	17		17		19

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Agriculture 31	5	Agriculture 32	5	Agriculture 33	5
Agriculture 51	5	Agriculture 62	3	Physics 1	5
Soc. Sci. or Lit.	3	Biology 31	5	Agriculture 43	2
Elective	5	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physical Education	1	Physical Education	1		
	17		17		16

*Terminal students may arrange a program to suit their present or future needs, with the aid of their counselor.

HOMEMAKING (Terminal)*

Mesa College Diploma

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Home Econ. 4	3	Home Econ. 2	5	Home Econ. 3	5
Home Econ. 11	2	Home Econ. 12	2	Home Econ. 53	2
Home Econ. 31	3	Art 12	3	Home Econ. 36	1
Art 11	3	Elective	2-3	Elective	2-3
Intro. to Home Ec.	1	Physical Education	1	Physical Education	1
Physical Education	1				
	16		16-17		16-17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Econ. 51	3	Home Econ. 52	3	Home Econ. 53	3
Home Econ. 61	3	Home Econ. 32	3	Economics 43	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Sociology 44	3
Speech 1	3	Elective	3	Elective	3
	15		15		15

* See page 33 for transfer curriculum



In the Biology Laboratory

Course Descriptions

AGRICULTURE

01. AGRICULTURAL PROFESSION F. 1 hour.

Required of all freshmen who will major in agriculture. A survey of the various fields of study. Guidance in choosing major and minor fields of study. The opportunities as well as responsibilities associated with positions in agriculture when operating one's own business as well as when employed in one of the professions.

1. INTRODUCTORY ANIMAL HUSBANDRY F. 5 hours

A study designed to furnish a general knowledge of the important principles of the livestock industry as it pertains to agriculture. Selections and evaluation of beef cattle, dairy cattle, sheep, and swine on a purebred and market basis are carried out. Emphasis is placed on types, breeds, markets, and market classification. Three lectures and two laboratory periods per week. Laboratory fee, \$3.00 per quarter.

3. LIVESTOCK JUDGING AND SELECTION S. 2 hours.

A study of animal form and its relation to the function of the individual. Emphasis is placed on the evaluation of live animals in terms of their probable value for producing the product for which they are intended. Market and breeding classes of livestock will be judged. Prerequisite: Agriculture 1. Two laboratory periods per week. Laboratory fee, \$3.00 per quarter.

- 23. CROP PRODUCTION.** S. 5 hours.
A study of the principles of field crop production with special emphasis on cultural practices for crops grown in the intermountain area. Pre-requisite: 10 hours botany. Four hours lecture and discussion and two hours laboratory per week. Laboratory fee, \$3.00 per quarter.
- 42. AGRICULTURAL ECONOMICS.** W. 5 hours.
A study of the principles of economics applied to the specific problems of agriculture in the management of farm credit, farm ownership, tenancy, land values, and the policies of Federal agencies relating to agricultural operations.
- 51. GENERAL HORTICULTURE.** F. 5 hours
A general course covering the principles underlying the propagation, culture, improvement, and marketing of horticultural crops. Prerequisite: 5 hours botany. Four class periods and one laboratory period per week. Laboratory fee, \$3.00 per quarter.
- 52. FRUIT PRODUCTION.** W. 5 hours.
A study of tree and small fruit production. Emphasis is given to selection of site, layout, planting, pollination, pruning, fruit thinning, soil management, fertilization, irrigation, and general orchard management. Four class periods and one laboratory period per week prerequisite: Agriculture 51 and Botany. Laboratory fee, \$3.00 per quarter.
- 53. GENERAL POULTRY HUSBANDRY.** S. 5 hours.
A study of breeds, judging, incubation, brooding, feeding, culling, and marketing. Designed to meet the needs of students wishing a general knowledge of the poultry industry and the problems of production. Four class periods and one laboratory period per week. Laboratory fee, \$3.00 per quarter.
- 61. FORAGE CROPS.** F. 4 hours.
A study of the production and preservation as hay or silage of the principal forage crops and cultivated grasses. Special attention is given to the production and maintenance of farm pastures. Prerequisite: Agriculture 23. Class meets daily.
- 62. GENERAL DAIRY HUSBANDRY.** W. 3 hours.
A general course in dairying. History and present status of the dairy industry; starting dairy herds; breeds of dairy cattle; cow testing, associations; club work; study of herd records; calf feeding; general principles of feeding, management and housing of dairy cattle. Prerequisite: Agriculture 1. Open to sophomore students. Two class periods and one laboratory period per week. Laboratory fee, \$3.00 per quarter.
- 63. FARM AND GARDEN INSECTS.** S. 3 hours.
Elementary anatomy and physiology of insects. A study of the life histories, and habits of the more important insect pests and recommendations for controlling them. Prerequisite: Zoology, five hours. Two classroom periods and one laboratory period per week. Laboratory fee, \$3.00 per quarter.

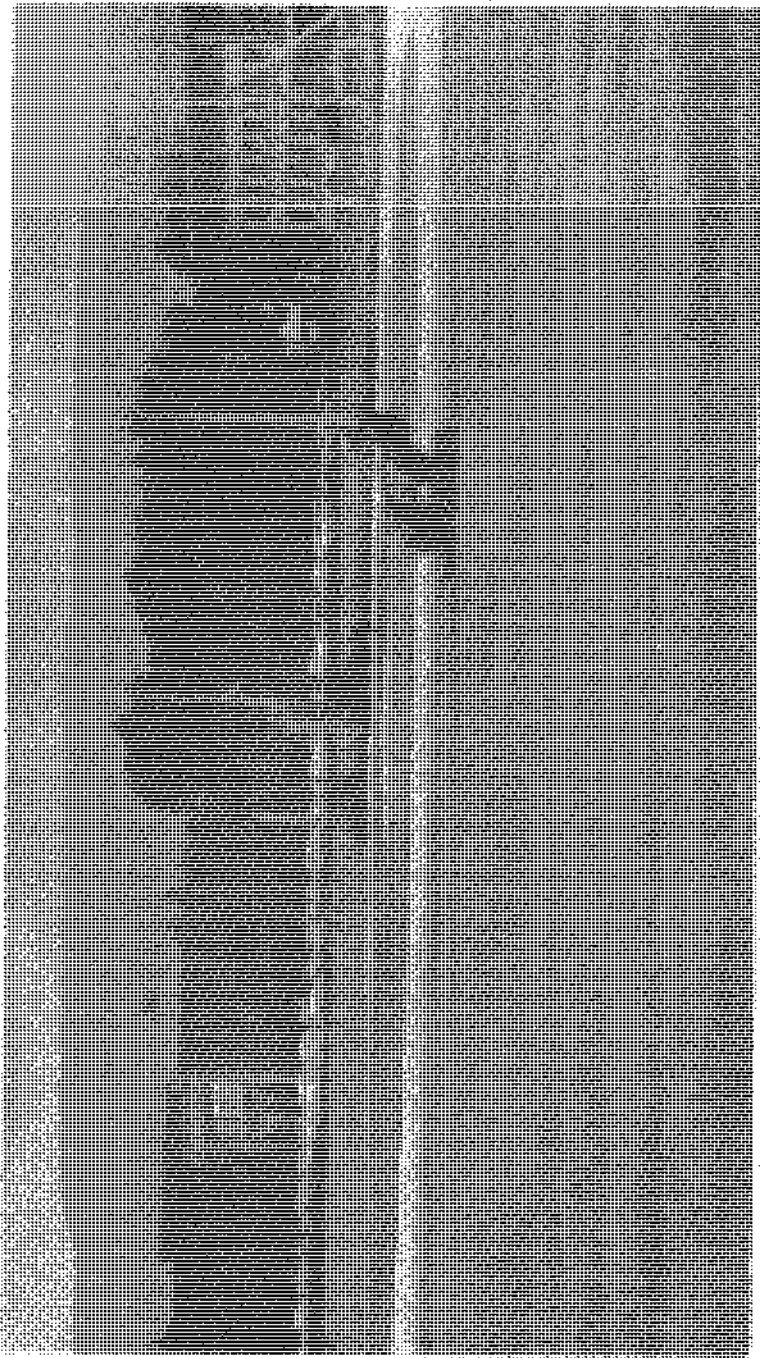
PRACTICAL NURSING

31, 32, 33, 34. PRACTICAL NURSING FWS, Sum. 15 hours

A 12-months' course designed to offer qualified women training in the basic principles of practical nursing and to prepare them for employment in hospital and doctors' offices as trained practical nurses. Five hundred hours of classroom and 1,200 hours of supervised clinical experience are required. Work experience, under the direction of a physician or a registered nurse, is rotated, providing training in the handling of Medical, Surgical, Pediatric, Geriatric, and Obstetrical cases. Some reimbursement is realized by students in connection with the supervised clinical training. The program is offered under the supervision of the Colorado Board of Examiners for the Licensing of Practical Nurses. Classes start the first of September and the first of February each year. A physical examination is required. Tuition: \$25.00 per quarter.



A Scene in the Home Economics Department



Atlantic Pacific Field with Power Lines in the Background



Joe and Jane College

ADULT EDUCATION

Adult education, as indicated by the objectives of the College attempts to serve two community needs through the courses offered. The first type of course offered is for adults interested in cultural, international, appreciation, and general educational subjects. The second type of course is aimed at developing vocational skills or increasing general civic and vocational understanding.

This training is usually offered in the night school through short unit courses, as the community demands and needs are indicated. Instruction is carried on through lecture-discussion, demonstration, laboratory, field trips, and shop work. Guest instructors are used in many cases to add new experience and give greater breadth to the course.

General Educational and Cultural Courses

These courses include classes offered in connection with the Music, Dramatic, Art, Science, English or Educational Departments. Courses that have been or are being offered are Music Appreciation, CH Patacog, Modern Dance, Recreation for Women, Geography, Cosmopolitan, Photography, Creative Writing, Conversational Spanish, and Literature.

Vocational Courses

BUSINESS EDUCATION

The basic purposes of the Evening School of Business is to afford the people of the community an opportunity to receive training which will fit them for employment, and also to offer supplementary training in the fields in which individuals are now engaged for the purpose of advancement in these fields.

Courses are offered regularly five evenings each week during fall, winter, and spring quarters, from 7:00 to 10:00 p.m. A student may take a maximum of three courses per quarter at a cost of \$15 for each course. These courses may be taken for college or high school credit, or on a non-credit basis. The curriculum for the Evening School of Business is built around the following main courses: Bookkeeping and Accounting, Shorthand, Typewriting, and Office Machines.

Courses offered once during the school year include Business Mathematics, Business English, Business Law and Business Correspondence.

Other courses in the field of business are offered when there is sufficient interest to warrant the organization of a class.

AGRICULTURAL EDUCATION

Short unit courses for adult farmers can be offered in rural communities on problems of production, marketing, farm management and farm mechanics. Classes may be organized for at least ten sessions for 20 clock hours. Discussion on the above problems will be based upon the needs of the local community. Improving farming practices is the objective of such courses.

DISTRIBUTIVE EDUCATION

Short unit courses are offered in the field of sales and service. The following are examples of courses which have been offered or are currently being offered: Insurance, Real Estate, Speech Help for Sales People, Sales Training, Show Card Writing, Tourist Service Training and Food Service Training.

HOMEMAKING EDUCATION

Evening courses for adult homemakers are currently being offered. The following types of courses are offered when ten women indicate an interest: Dressmaking, Individualized Clothing, Tailoring, Parent-Education, Candy Making, Cake Decoration, Furniture Upholstery, Furniture Repair and Remodeling, Law for Laymen, Millinery, Slip Covering, Meal Planning, and Living in the Home. Other similar courses will be offered if there is a need in the community.

TRADE AND INDUSTRIAL EDUCATION

Courses in Machine Shop, Auto Body and Fender Repair, Auto Mechanics, Welding, Carpentry, Plumbing, Sheet Metal, Slide Rule, Electricity, Gas Fitters Code Interpretation, Lead Wiping, Foremanship, Management Development, and Firemanship have

been and may be offered where there is sufficient need. These courses may be offered as pre-employment, trade-extension, or as related instruction to indentured apprentices.

Other courses may be offered similar to those mentioned above if need in the community is apparent.

SAMPLE ONE-YEAR COURSE

Breakdown of Carpentry Apprenticeship Related Training

	Clock Hours
Estimating	20
Stair Building	8
Interior Trim and Finish	12
Cabinet Work	12
Blue Print Reading	20
Advanced Carpentry Mathematics	20
Industrial Labor Relations	8
General Review	20
Examinations (written and performance)	15
Miscellaneous	12
	144

Class meets two nights weekly for 2½ hours per session, for nine months.

SUMMER QUARTER 1958

The summer quarter will begin June 15 and end August 21, 1958. The quarter will be divided into two terms of five weeks each and students may receive credit for work done in either term or for the entire quarter. Fifteen hours credit may be earned during the quarter. The maximum number of classes to be taken at one time is three. If there is sufficient demand a limited number of courses in engineering, surveying, and mathematics may be offered.

SCHOOL OF BUSINESS

Beginning and advanced courses in bookkeeping, shorthand, and typewriting will be offered. Other courses will be given according to demand from among the following: Business English, Business Machines, Business Arithmetic, Office Practice, Business Law I and II.

Fees

Matriculation	\$ 3.00
Each five weeks' course	10.00
Each ten weeks' course (except typing)	15.00
Typewriting (10 weeks—double period)	20.00

Tuition

Mesa County residents	no charge
Nonresidents, each five-weeks' term	\$5.00

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