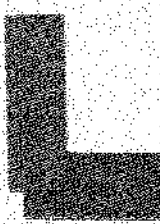


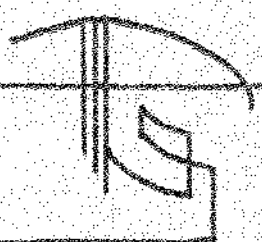
MESA COLLEGE

GRAND JUNCTION,
COLORADO

Catalog



NINETEEN SIXTY-TWO
NINETEEN SIXTY-THREE



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

1962

SEPTEMBER

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HOW TO APPLY FOR ADMISSION

Students Attending College for the First Time

1. Secure an Application for Admission form from your high school principal or from the Registrar at Mesa College.
2. Complete Part I of the Application for Admission; have your high school office complete part II and forward the form to the Registrar at Mesa College. Applications may be filed at any time after the close of the first semester of the senior year in high school and should be in our hands by September 1.
3. Upon receipt of your application the college will inform you of your admission status. (Admission status will be tentative until the record of the final semester of the senior year has been received.)
4. Prior to registration for the Fall Term you will receive additional information regarding the orientation program, health examinations, student insurance, and dormitory housing.

Transfer Students

1. File with the Registrar at Mesa College:
 - a. The standard Application for Admission form, Part I.
 - b. An official transcript of all credits earned from each college or university previously attended.

THE MESA COLLEGE PHYSICAL EXAMINATION REPORT SIGNED BY A PHYSICIAN IS REQUIRED AT REGISTRATION TIME OF ALL STUDENTS ENTERING MESA COLLEGE FOR THE FIRST TIME.

REGISTRATION AND COUNSELING TESTS

The college admission tests of the American College Testing (A.C.T.) Program are required of all new freshmen prior to registration at Mesa College. It is recommended that prospective students take these tests during their senior year. The tests are available at designated centers throughout the state and region on three different dates, usually in November, February, and April. A summer testing administration is available at certain centers.

A \$3 fee must be submitted with a reservation form to the A.C.T. Regional Office 3 weeks prior to the date on which the student elects to take the test. Detailed information regarding testing centers, dates, and registration supplies will be available through high school principals or from the Registrar at Mesa College. College Board, Scholastic Aptitude Test scores (S.A.T.) are not required by Mesa College and will not excuse the student from the A.C.T. program. (See page 25 for further information.)

Mesa College Catalog



1962

1963



GRAND JUNCTION
COLORADO

Mesa College Administration Building



Foreword...

There is today throughout the land a new 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 proportion 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.

Mesa 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 eligible to attend and who can profit from its offerings, regardless of age or experience. It provides a cultural center for the community and recognizes its moral and social responsibility toward the students and adult population while it makes provisions for meeting educational and vocational demands made upon it.

The administration and classroom building, first occupied in 1940, is well known throughout the region for its attractive appearance and excellent facilities. Other plant facilities include a new Science Building, Horace Wubben Hall; a new College Center Building; Mary Rait Hall, a women's residence hall; a group of men's dormitory units; and the college farm facilities.

The well qualified faculty, broad curriculum, and plant facilities make Mesa College 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 assist in furthering cultural standards in this region.

Thousands of students have entered the college since its inception in 1925. Many have gone on successfully to complete their advanced degrees in colleges and universities of the United States. Many have terminated their formal education with graduation from Mesa College and have taken their places in the commercial, industrial, family, and community life—all much better equipped for having shared in college opportunities.

Mesa 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.

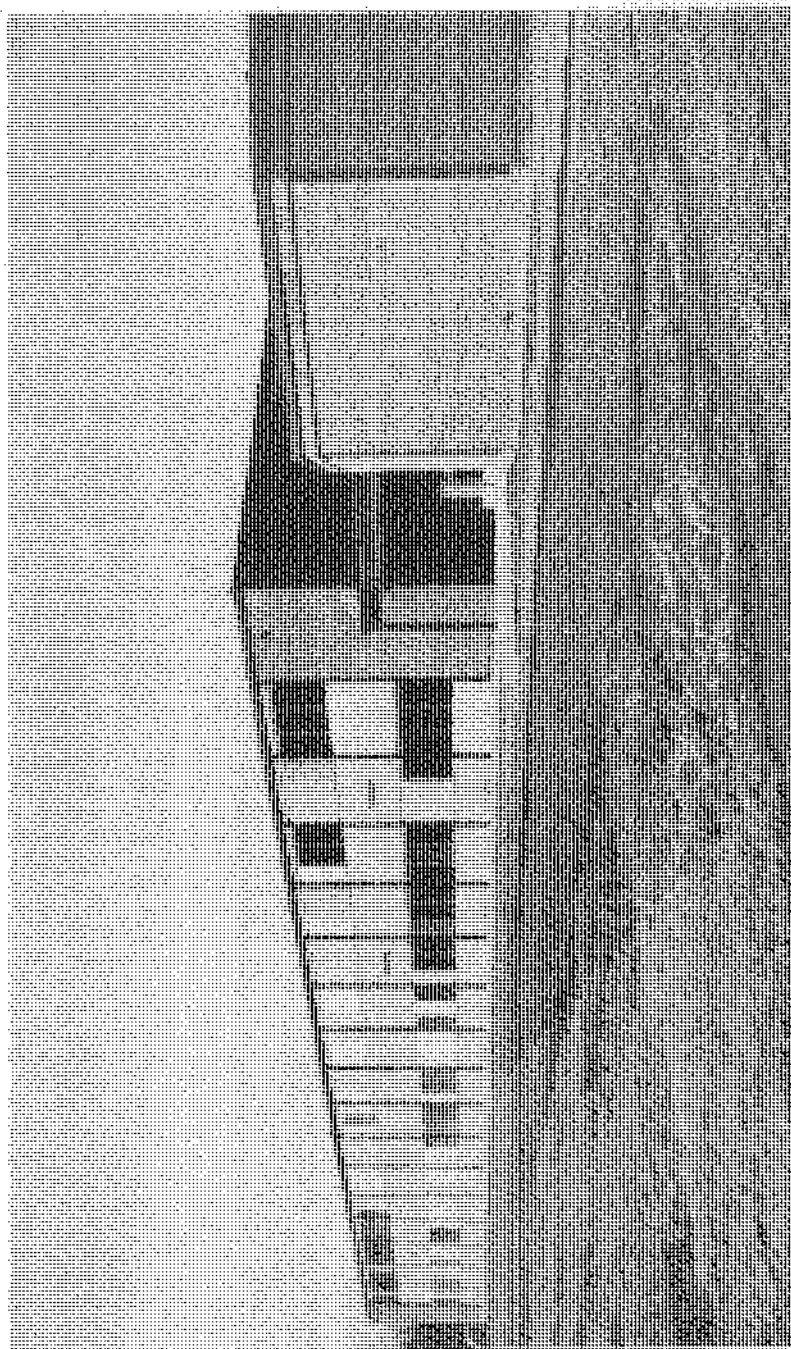
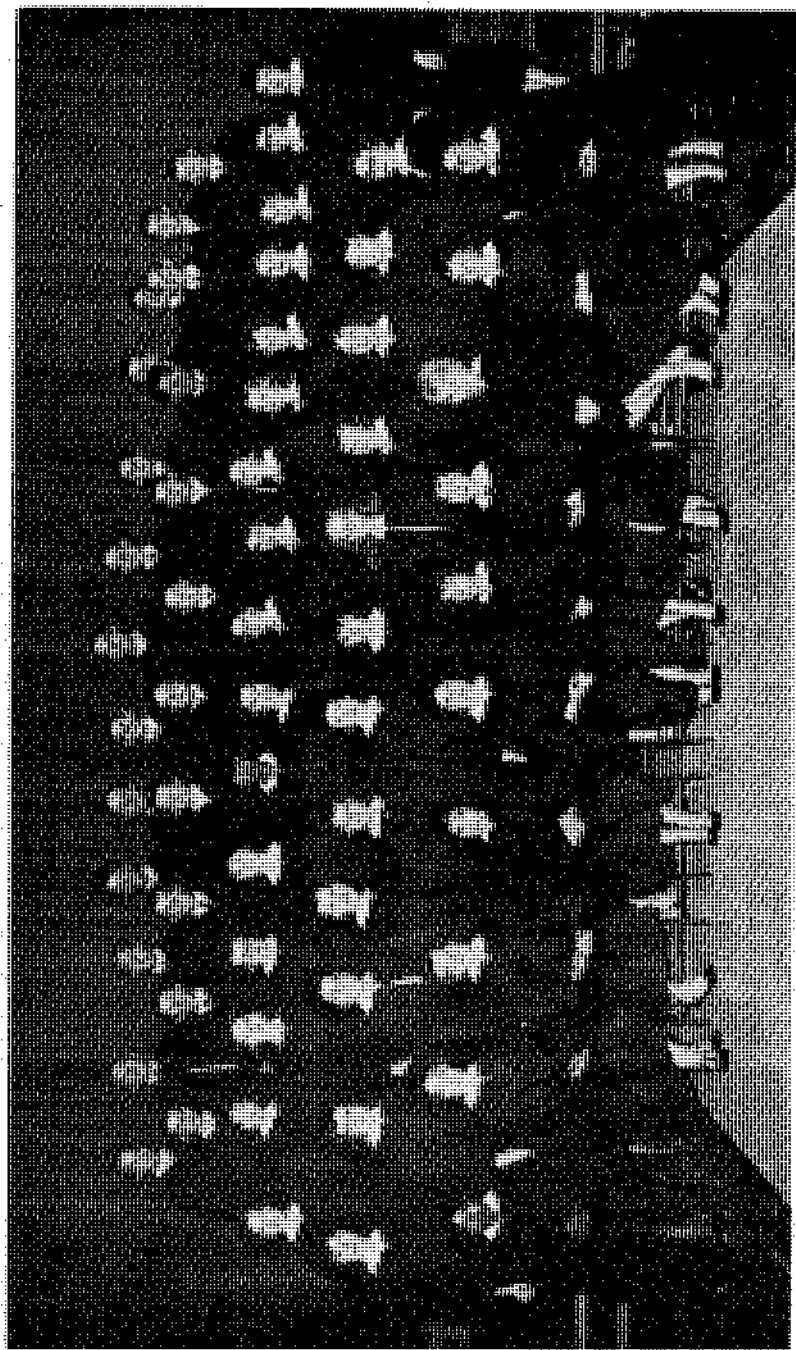


Figure 1. The building of the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, showing the curved facade and large windows.

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Mesa College Choir

MESA COLLEGE

PURPOSES

1. **FOR ALL STUDENTS.** To supply training for citizenship and enriched personal living to all students regardless of classification, by providing:
General courses and group activities through which they are enabled to gain for themselves personal, social, civic and vocational competencies;
A well-rounded education that develops within them a sound emotional and social balance and personal resources for continued intellectual growth;
Assistance toward better understanding and appreciation of the values of art, music, literature and other cultural activities;
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 extension 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 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 recreational 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 continuous revision is possible. 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 clientele of the college and to the social and industrial development of the community.

Personnel

MESA COLLEGE COMMITTEE

E. J. Duggan, President.....	Grand Junction
Claud Smith, Secretary.....	Grand Junction
Roe F. Saunders, Treasurer.....	Mack
Mrs. Clyde Biggs.....	Grand Junction
Arnold Weiss.....	Rangely

OFFICERS OF ADMINISTRATION - MESA COLLEGE

Horace J. Wubben, B.A., M.A., LL.D.....	President of the College
Kenneth LeMoine, B.A., M. Ed.....	Assistant to the President
Adv. Grad. Study, University of Colorado	
Jay Tolman, B.S. M.S.	Dean of Men
Caryl LaDuke, B.A., M. Ed.....	Dean of Women
Lowell Helny, B.A., M.A., Ed. D.....	Registrar

OFFICERS OF ADMINISTRATION - RANGELY COLLEGE

William A. Medesy, B.S., M.A., Ed.D.....	Dean
Robert B. Clark, B.S., M.S.....	Business Officer
Maurice C. Kreuz, B.S., M.S.	Administrative Assistant
George B. Young, B.S.M.E.....	Superintendent of Buildings and Grounds

INSTRUCTIONAL AND ADMINISTRATIVE PERSONNEL

Margaret Ann Arbenz.....	Librarian
B.A., M.A., University of Colorado	
B.S. in L.S., University of Denver	
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 C. Blamey.....	Dormitory Director
R.N., Graduate of Walter Reed Hospital School of Nursing.	
Orville L. Roge.....	Chemistry, Physical Science
B.A., Colorado State College	
M.A., Colorado State College	
Adv. Grad. Study, Michigan State University; University of the Pacific	
Michèle Novel-Cattin.....	French
B.A., Caen Teachers College, France	
Carl H. Close.....	Maintenance Superintendent
Mary M. Coleman.....	Mathematics
B.S., Alfred University	
M.P.S., University of Colorado	

- James C. Davis.....Mathematics, Engineering
B.A., M.A., Colorado State College
Adv. Grad. Study, University of Colorado; Colorado State University
- Wallace Dobbins.....Journalism, Publications
B. Ed., Colorado State University
M.A., Western State College
- Elaine E. Eddy.....Business, English
B.A., Yankton College; M.A., Western State College
- Eugene W. Endsley.....Biology
B.A., M.S., University of Denver
Adv. Grad. Study, University of Colorado
- Mason Farrow.....Mathematics, Science
B.S., Colorado State University
M.A., Stanford University
Adv. Grad. Study, University of Colorado
- Abbott Fay.....Social Science
B.A., M.A., Colorado State College
Adv. Grad. Study, Western State College; Denver University
- M. F. Fitzgerald.....Business
B.S., M.B.A., Denver University
- Agnes B. Gabelman.....Practical Nursing
R.N., Graduate of Roseland Community Hospital School of Nursing,
Chicago, Illinois
- H. Hugh Gibson.....Business, Accounting
B.S., M.B.A., University of Denver
Certified Public Accountant
- William Arch Girdley.....Geology
B.S., Indiana University
M.A.,
- Alfred Goffredi.....Business
B.A., M.A., Western State College of Colorado
Adv. Grad. Study, Western State College of Colorado
- Harry Hammer.....Music
B.M., M.M., Syracuse University
Adv. Grad. Study, Syracuse University, Aspen School of Music
Ed. D., University of Colorado
- Roy E. Hannah.....Farm Training Supervisor, Agriculture
B.S., Colorado State University
Adv. Grad. Study, Colorado State University
- Eugene Hansen.....Director, College Center
B.A., M.A., Western State College
- Helen M. Hansen.....Business
B.A., State College of Washington
Adv. Grad. Study, University of Denver; University of California
at Los Angeles

Kathleen Heidrich	English
B.A., Kansas Wesleyan University	
M.A., University of Denver	
Special Study, University of Colorado	
Lowell Heiny	Registrar
B.A., McPherson College	
M.A., Colorado State College	
Ed. D., University of Colorado	
Esther Herr	English Language, Literature
B.A., State University of Iowa	
M.A., Columbia University	
Lloyd Jones	Psychology, Social Science
B.A., M.A., Western State College of Colorado	
Adv. Grad. Study, University of Colorado; Western State College	
May Belle Kanavel	Business
B.A., B.E., University of Colorado	
M.S., School of Commerce, University of Denver	
Caryl LaDuke	Dean of Women, Education, English
B.A., M. Ed., Colorado State University	
Maurine M. Leighton	Home Economics
B.S., Home Economic Education, Oklahoma State University	
Adv. Grad. Study, Oklahoma University, Colorado State University	
Milton F. Lenc	Chemistry, Physics
B.A., Ohio Wesleyan University	
M.S., Clarkson College of Technology	
Adv. Grad. Study, Northeastern University, University of Texas	
Kenneth LeMoine	Assistant to the President
B.A., M. Ed., University of Colorado	
Adv. Grad. Study, University of Colorado	
Donald A. MacKendrick	Social Science
B.S., Colorado State University	
M.A., University of Colorado	
Adv. Grad. Study, University of Colorado	
Richard L. Marrs	Speech, English
B.S., M.A., University of Nebraska	
Melvin McNew	Chemistry, Mathematics
B.A., M.A., Western State College of Colorado	
Adv. Grad. Study, Denver University; Oregon State College	
Ethel Mae Moor	English
B.S., Nebraska Wesleyan University	
M.A., University of Nebraska	
Adv. Grad. Study, Bread Loaf School of English; University of Nebraska	
Louise G. Moser	Director of Nursing Education*
A.B., Wittenberg University	
M.N., University of Washington	
R.N., Grad. of Massachusetts General Hospital School of Nursing	

* Other instructors in nursing are to be appointed.

- Sandra Mowbray.....Physical Education
B.A., Western State College
Adv. Grad. Study, Western State College
- Wayne Nelson.....Director of Physical Education
B.S., M.S., Utah State University
Adv. Grad. Study, University of California
- Lorraine A. Nevue.....English
B.A., Ohio State University
M.A., Ohio University
Adv. Grad. Study, University of Colorado
- I. J. Nicholson.....Social Science
B.A., University of Colorado
M.A., Western State College
- Morton Perry.....Social Science
B.S., Rutgers University
M.A., University of Wyoming
Adv. Grad. Study, Rutgers University
- Dean N. Phillips.....Mathematics, Engineering, Physics
B.S., Architectural Engineering, University of Colorado
B.S., Business, University of Colorado
M.S., Industrial Engineering, Stanford University
- William E. Putnam.....Physics, General Science
B.S., Birmingham Southern College
M.S., Emory University
Ph. D., Rice University
- Bee Randolph.....Director of Health Service
R.N., St. Luke's School of Nursing
- Alvie Redden.....Art
B.S., West Texas State College
M.F.A., University of Colorado
Adv. Grad. Study, Ohio State University, Columbia Univ.
- Dan Roberts.....Social Science, Physical Education
B.A., Colorado State College
Adv. Grad. Study, Colorado State College; Western State College
- Mai Robinson.....English
B.S., Minot State Teachers College, North Dakota
- William S. Robinson.....Speech, Drama
B.A., Morris Harvey College
M.A., New York University
Adv. Grad. Study, University of Denver
- Wilma S. Schumann.....Practical Nursing
R.N., Boulder, Colorado Sanitarium and Hospital
- Elouise Severe.....Financial Secretary
- Bertha L. Shaw.....English
B.A., University of Iowa
Adv. Grad. Study, Northwestern University, Iowa State University,
Western State College

Dan M. Showalter.....	English, Literature
B.A., Western State College	
Adv. Grad. Study, University of Colorado; Colorado State College; Western State College	
Laura Smith.....	Foreign Language
B.A., University of Wichita	
M.A., University of Kansas	
Hugh Sutton.....	Mathematics, Engineering
B.S., Texas A&M College	
Adv. Grad. Study, Texas A&M College	
R. Bruce Sutton.....	Science, Mathematics
B.S., Ohio State University	
Adv. Grad. Study, University of Arizona	
Jay Tolman.....	Dean of Men, Geology
B.S., M.S., Utah State University	
Adv. Grad. Study, University of Colorado, University of Utah	
Joan Young.....	Biology
B.A., University of Colorado	
M.A., University of Kansas	
Adv. Grad. Study, Ohio State University	
Herbert Weldon.....	Mathematics, Physics
B.A., M.A., Western State College of Colorado	
Adv. Grad. Study, University of Colorado	
Walter E. Wheeler.....	Director, Adult and Vocational Program
B.A., 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	
LL.D. University of Denver	

SPECIAL MUSIC INSTRUCTORS

Dean Beck.....	Woodwind Instruments
Mary Leah Chavies.....	Bass Viol
Anna Ross Cheney.....	Voice
Alice Griggs.....	Piano
Marshall Griggs.....	Strings
Anna Mae Heiny.....	Piano
Marion L. Jacobs.....	Brass Instruments
Mrs. LeRoy Marsh.....	Organ, Piano
Raymond Miller.....	Voice
Charles Myers.....	Piano
Allen Porter.....	Flute
Cloyce B. Stokes.....	Woodwind Instruments
Leroy Thompson.....	Percussion
Marie Treece.....	Voice
Georgia Ann Watkins.....	Flute

GENERAL INFORMATION

ACCREDITATION

Mesa College is fully 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".

BUILDINGS AND EQUIPMENT

In addition to the main administration and classroom building, other facilities include the new Science Building, Horace Wubben Hall, the new College Center Building, Mary Rait Hall, a women's residence hall, a men's residence complex, and the Mesa College Farm.

The administration and classroom building covers nearly one-half city block in area. It is an attractive two-story structure of modern design and houses the administrative offices, class and lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructor's offices. The library, Murr Memorial Library, occupies a well-lighted and air conditioned room seating approximately 100 students. The book collection, which grows continuously, numbers approximately 12,000 volumes, for the most part arranged on open shelves. More than eighty periodicals are currently received.

Horace Wubben Hall was completed for occupancy in January, 1962, and incorporates the most modern of science and engineering classroom and laboratory facilities. In addition to the physical and biological sciences and engineering, other departments to be housed in this building include Agriculture, mathematics, Health Center, Testing Center, and a 100 capacity lecture and convocation hall equipped for the latest and most modern audio-visual and demonstration equipment. Approximately 20 individual faculty offices with appropriate clerical and reception facilities are available.

The College Center Building, occupied also in January, 1962, contains a modern, fully equipped cafeteria, bookstore, study and recreational lounges for students and faculty, office and conference facilities for faculty and for student government and activity leaders, a snack bar, game rooms and listening rooms for recorded music.

Housing facilities include Mary Rait Hall, a beautiful women's residence hall, with a capacity of seventy women, and a men's housing complex with facilities for approximately 85 men. Each woman resident has her own bedroom and shares a living room with modern bath facilities with four other women. The dormitory has recreation rooms, party kitchens, and a dating lounge on the first floor. The men's dormitory provides comfortable living quarters with bedrooms of varying sizes sleeping from one to four men. Full-time, trained counselors are in residence in each dormitory and are available at all times.

The Mesa College Farm includes 35 acres on the South Redlands where a Brown Swiss dairy herd, a herd of pure-bred Columbia sheep, and a poultry flock are housed in modern facilities. The farm stock and facilities are used both in the Agricultural program of the college and for the supplying of produce for the cafeteria.

Shop laboratories for classes in Machine Shop, Auto Mechanics, and Auto Body and Fender-Repair. Welding, etc. are available at the Farm and on a rental basis from the local school district for the use of the Mesa College adult, night school program.

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.

RANGELY COLLEGE

See pages 76-79.

HOUSING

Except for the 85 men who can be accommodated in the dormitory, men students are required to 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. All board and room jobs for women must be approved by the Dean of Women.

CAMPUS PARKING

Effective the fall semester, 1961 all students and staff must register vehicles if such vehicle is to be parked on college property. The College reserves the right to determine the zone in which each automobile will be parked.

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 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's 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.

HEALTH AND INSURANCE SERVICES

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. Expense of this examination is borne by the student. Health examination blanks are available at the college office.

The Director of Health Services, a registered nurse, maintains an office on the campus and minor health services and counseling are available at no extra cost to Mesa College students.

In addition an excellent student accident and sickness insurance plan is available to all full time Mesa College students. This plan protects the student for 24 hours per day at home, at school, or while traveling during the entire school year including interim vacation periods. This plan is optional to the student at minimal extra cost.

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.

The College Center Building will serve as the center of all student government and social activities. All students are welcome to the recreational, social, and study facilities of this fine building as well as to utilize the facilities of the cafeteria, snack bar, and bookstore.

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.

ENROLLMENT

Regular day school enrollment for the Fall Quarter, 1961 consisted of a Freshman class of 693 including 503 men and 190 women; the Sophomore class of 391 including 282 men and 109 women; and 27 additional graduate and special students for a total of 1111 students. The geographical distribution of home towns for these students was as follows: 533 from Mesa County; 481 from Colorado counties other than Mesa; 88 from out of state; and 9 from foreign countries.

In addition, the night school program enrolled 150 part time students taking degree credit courses and 270 others enrolled in a wide variety of non-credit, adult learning type courses. Thus in its role as a community college Mesa College served a total of 1530 individuals during the Fall Quarter of 1961.

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

available for 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 local radio stations 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

Students living in the dormitories pay \$210 per quarter for room in the dormitory and meals at the cafeteria for a 7-day week. The cost of rooms for men in private homes depends on the type of accommodations furnished and ranges from \$20 to \$30 per month. Meals in the cafeteria cost \$165 per quarter for a 7-day week for students not living in the dormitory.

Reservations for rooms in the dormitories should be made not later than August 1. Reservation contracts are available from the Registrar or from the Deans and must be completed and returned with a \$20 deposit.

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 one hundred dollars for the year. Some saving may be realized by buying used books which may be available in limited quantities. Nursing students will have additional costs of uniforms and transportation to and from hospital training centers.

TUITION AND FEES

All Mesa College students pay the Matriculation and College Fees as itemized in the following paragraphs as well as special laboratory and instructional fees as indicated in course descriptions.

In addition to these fees students who do not qualify as legal Colorado residents will be charged a tuition fee of \$60 per quarter, payable at the time of registration. For purposes of assessing tuition charges, a Colorado resident is defined by law as, "A student who has been domiciled in Colorado for one year or more immediately preceding registration." Residence in Colorado for the purpose of attending Mesa College or any other institution of higher learning does not apply toward the establishment of Colorado resident status.

GENERAL FEES

Matriculation (paid once by each student)	\$ 5.00
Tuition (Not charged Colorado residents)	
Out-of-state students	60.00 per quarter
College Fee (paid by all students)	35.00 per quarter
(Includes student activity ticket, library services, student publications, College Center use, and other college services.)	

LABORATORY AND SPECIAL INSTRUCTIONAL FEES

Agriculture	\$ 3.00 per quarter
Applied Music, (one lesson per week)	20.00 per quarter
Other laboratory and special instructional fees as indicated in course descriptions.	

BOARD AND ROOM

Board Only Per Quarter (7 Day Week)	\$165.00
Room and Board (Dormitory) Per Quarter (7 Day Week)	\$210.00

EVENING SCHOOL FEES

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

MISCELLANEOUS FEES

Late registration	\$ 5.00
Change in schedule	2.00
Late or special examination	2.00
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.

REFUNDS**Room and Board**

Students withdrawing during a quarter are entitled to no refunds on room rent. Refunds on board will be determined on a prorated basis in accordance with the contract and subject to authorization by the Deans.

Tuition and Fees

If a student withdraws within 14 days from the date of registration, two-thirds of the tuition, plus \$20 of the college service fee, and special laboratory fees, subject to clearance by the instructor, may be refunded. No refunds will be made after the 14th day from the date of registration.

Dormitory Deposit

If a student officially cancels his reservation prior to August 15, the \$20 deposit may be refunded. Refund of the deposit for students withdrawing prior to the end of the quarter will be subject to clearance from the housing director.

SCHOLARSHIPS AND AWARDS

For many years Mesa College has followed the policy of awarding a **FRESHMAN TUITION SCHOLARSHIP** to a graduating senior from each Western Colorado high school. Applications for these scholarships should be submitted to the faculty scholarship committee on the Standard Scholarship Application Form not later than April 15. These forms are available from high school principals or from the Registrar's Office at Mesa College.

JOINT HONOR SCHOLARSHIPS awarded to high school graduates 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. In addition two Music Scholarships are provided by the Grand Junction Wednesday Music Club, one by the local Kiwanis Club, and three by the American Federation of Musicians, Local 164.

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.

One or more tuition scholarships for the junior and senior academic years are made available to outstanding Mesa College graduates by each of the four-year colleges and universities in the state. Application forms and information relative to these scholarships may be secured from the Registrar's office.

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 Raleigh B. and Raleigh James Flanders loan fund is a fund of \$750 available to women students for short term, small loans.

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.

In addition, Mesa College has been approved for participation in federal funds made available to college students through the National Defense Education Act. Students desiring such loans may secure information and application forms from the Dean of Men.

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.

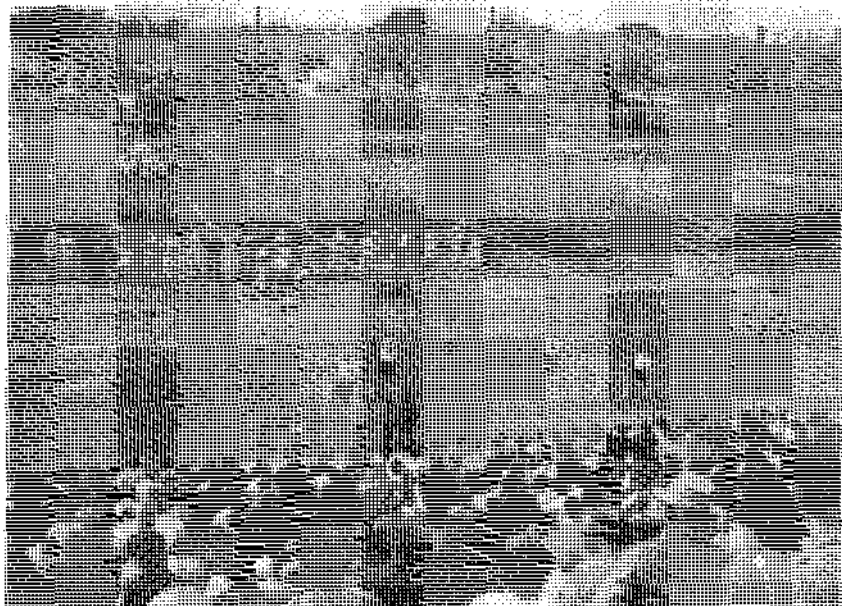
MESA COLLEGE RESERVES THE RIGHT TO WITHDRAW FROM ITS OFFERINGS ANY COURSE WHICH THE ENROLLMENT DOES NOT JUSTIFY GIVING, FOR ANY PARTICULAR QUARTER. ADDITIONAL COURSES WILL BE ADDED ANY QUARTER IF THE DEMAND IS SUFFICIENT.



Ski Class

Physical Education

Mesa College carries out a full program of Physical Education for men and women and participates in a three-quarter schedule of intra- and extra-mural athletic sports. Students are encouraged to take advantage of the opportunity to engage in intercollegiate games but eligibility regulations are strictly enforced and only bona fide students are permitted to participate. The program consists of football, basketball, wrestling, baseball, tennis and track for the respective quarters. Intra-mural 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 residents, at the office of the high school principal.

High School graduates who have completed satisfactorily a minimum of fifteen acceptable units of high school work, are eligible for admission to 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 should be on file in the Registrar's office not later than the first of September for the Fall Quarter. Applications for admission for the Winter and Spring Quarters should be on file in the Registrar's Office not later than two weeks prior to the beginning of the quarter.

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 first-time 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 sent from each institution attended. Transfer students will be required to take placement and counseling tests at Mesa College unless equivalent scores from the college or university previously attended are on file at registration time. Such test scores are not a regular part of the official transcript and are released by your former school only at your specific request.

HEALTH CERTIFICATE

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 OF VETERANS

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

The college is approved by the Veterans Administration for the education and training of Veterans under Public Laws 550 and 894.

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

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. 550 or 894) should come prepared to finance 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.

REGISTRATION AND COUNSELING TESTS

The college admission tests of the American College Testing (A.C.T.) Program are required of all new freshmen prior to registration at Mesa College. It is recommended that prospective students take these tests during their senior year. The tests are available at designated centers throughout the state and region on three different dates, usually in November, February, and April.

A \$3 fee must be submitted with a reservation form to the A.C.T. Regional Office 3 weeks prior to the date on which the student elects to take the test. Detailed information regarding testing centers, dates, and registration supplies will be available through high school principals or from the Registrar at Mesa College.

A residual testing program will be available in connection with Fall Registration for those students who do not take the tests during their senior year. These students will be required to report for Fall Registration one day early in order that the tests may be administered and the results available to students and their counselors for completion of scheduling and registration. The \$5 testing fee will be collected from these students at the time regular registration fees are paid.

Students do not "pass" or "fail" these tests. The results are available to the student and his counselor and form an excellent basis for counseling and planning a course of study to meet the particular needs of students, and assist in sectioning and placement of students in class sections in keeping with their abilities and interests. Extra classroom instruction is provided during the first quarter for those whose test scores indicate weaknesses or deficiencies in certain areas such as English and mathematics.

College Board Scholastic Aptitude Test scores (S.A.T.), when received, are filed in the student's permanent record and personnel folder where they are available for counseling purposes if desired. However these S.A.T. scores are not required by Mesa College and will not excuse the student from the A.C.T. program.

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, Nursing, 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.

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 (Minimum Requirements)

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 sciences 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.
(Refer to p. 32 for specific degree requirements.)

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.

TEACHER PREPARATION

Mesa College recognizes the need for teachers, and encourages students of ability to prepare for teaching. A four-year program of training is needed for entry into the teaching profession, and students should plan their two years at Mesa in accordance with the requirements of the higher institution to which they expect to transfer. Since the first two years of teacher training is basically general education for improvement of background, students should follow the General Liberal Arts (Transfer) program with suitable choice of electives.

Mesa College has an active student education association chapter, M.E.S.A., which is affiliated with the state Student Education Association. The Mesa College chapter is represented at most state education meetings and conventions.

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 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. 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 curriculum 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 hours for Junior standing.

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, the instructor, and the Records Office. 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.

ACADEMIC PROBATION AND SUSPENSION

Students who fail to maintain prescribed grade average requirements in any quarter may be placed on probation by the admissions committee and their class load restricted for a quarter. Students failing to meet minimum prescribed academic standards for two consecutive quarters are subject to academic suspension for one or more terms. Students who are on academic probation are not eligible to hold office in student organizations, nor to represent the college in any regularly sponsored group or activity.

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 two dollars is charged for a late or special examination.

GRADE REPORTS

Individual reports are sent to parents, or by request, to individual students who have reached their majority 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. If arrangements for satisfactory completion of the course are not made before the end of the following quarter a grade of "F" will be assigned for the course.

WITHDRAWAL FROM COLLEGE

A student who desires to withdraw from college should notify his counselor and make formal application to the Dean of Men or Dean of Women 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. Failure to record the withdrawal in the Records Office within one week after withdrawal proceedings have been initiated will result in the assignment of a grade of "TF", technical failure, in each course.

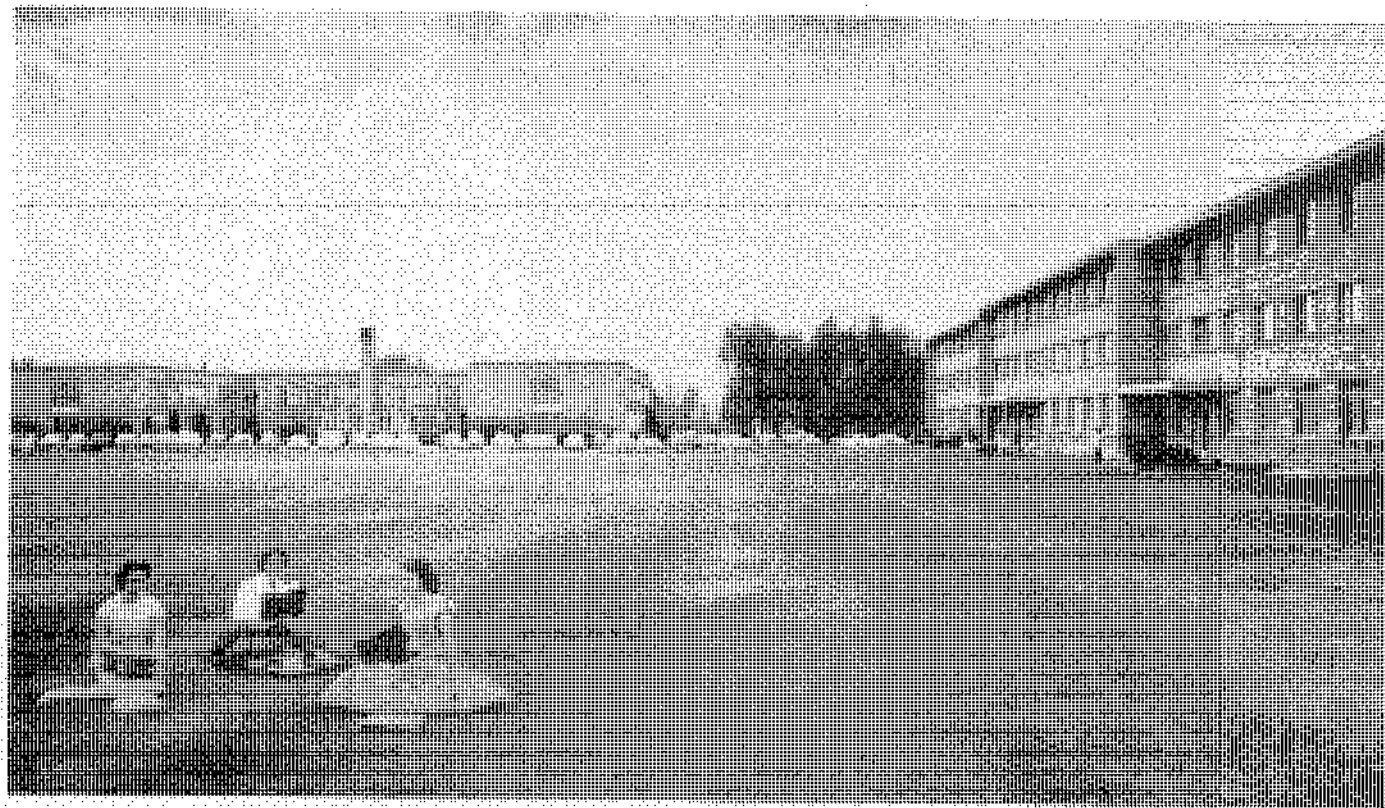
No permission to withdraw will be granted during the last three weeks of a quarter, except in emergencies.

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.



Mesa College Library



Campus View with Administration Building (left) and Mary Rait Hall (right) in background

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, 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 26 and in addition complete the appropriate specific degree requirements as follows.*

General Requirements and The MESA COLLEGE DIPLOMA

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

Students satisfactorily completing these general requirements are entitled to the MESA COLLEGE DIPLOMA.

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 Associate in Commerce Degree may be found on pages 66 and 67.

#Students majoring in nursing must complete prescribed course of study for that program. Ref. page 39.

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.

AGRICULTURE

AGRICULTURE SCIENCE*

Associate in Science

Those students entering into Agriculture Science should have a good mathematical and science background and have been an above average student in high school. The following freshman curriculum is recommended.

FIRST YEAR

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

APPLIED AGRICULTURE*

Associate in Science or Diploma

The following curriculum is suggested for those students not electing to major in Agriculture Science but who are interested in a course suitable for transfer and leading to a Bachelor of Science degree.

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Agriculture 1	5	Agriculture 02	3	Agriculture 23	5
Biology 21	5	Agriculture 02	3	Agriculture 53	5
English 1	3	English 2	3	English 3	3
Agriculture 01	1	Biology 22	5	Speech 11	3
Physical Education	1	Physical Education	1	Physical Education	1
	15		17		17

*Consult with counselor to plan a program that will best meet individual transfer needs for second year curriculum. Suggested electives for the Agriculture Science major: Chemistry 01, Agriculture 6, American Government, World Civilizations, Speech, Literature, Economics. Suggested electives for the Applied Agriculture major: Agriculture 2, Agriculture 56, Mathematics 15, 16, 22; American Government, World Civilizations, Literature, Chemistry 21, 22, 23.

TERMINAL AGRICULTURE

Students who plan to terminate their formal education with study at Mesa College may follow a course of study of their own choosing. Such a course may lead to a Mesa College Diploma or Associate Degree. (See page 32).

ART

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	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 31	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	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Lit. or Soc. Sci.	3	Lit. or Soc. Sci.	3	Lit. or Soc. Sci.	3
Psychology 21	3	Psychology 22	3	Psychology 23	3
Art 61	3	Art 62	3	Art 63	3
Art 71	3	Art 72	3	Art 83	3
Science 1	3	Science 2	3	Science 3	3
	15		15		15

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 10 or 12	3	Mathematics 15	3	Biology 3	3
Biology 1	3	Biology 2	3	Mathematics 20	3
Orientation	1	Elective	2	Elective	2
Physical Education	1	Physical Education	1	Physical Education	1
	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 21	3	Psychology 22	3	Psychology 23	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

Refer to General Liberal Arts — Page 37

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	3
Mathematics* 24	2	Mathematics* 28	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
Engr. Problems	1	Physical Education	1		
	18		18		18

*Students with a deficiency in mathematics will replace the indicated courses with: Mathematics 16 and Physical Education, Fall Quarter; Mathematics 24, Winter Quarter and Mathematics 28, 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	3	Statics 42	4	Dynamics 63	4
Elective	1				
Physical Education	1				
	17		17		17

*Sophomore engineers should consult with counselors regarding specific requirements of the professional engineering school of their choice.

ENGINEERING TECHNICIAN

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	3	Engr. Drawing 52	3	Engr. Drawing 53	3
Elective*	3	Elective*	3	Elective*	3
		Physical Education	1		
	16-17		17-18		16-17

*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 26	2	Chem. 3 or Geol. 3	5
Chem. 1 or Geol. 1	3	Chem. 2 or Geol. 2	5	Soc. Sci. or Lit.	1
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
Orientation	1	Psychology 22	3	Music 20	2
Music 19	2	Music 20	2	Psychology 23	3
Psychology 21	3	Art 44	2	Speech 12	3
Physical Education	1	Physical Education	1	Physical Education	1
	15		16		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
History	3	History	3	History	3
Science	5	Science	5	Psychology 33	3
Elective	5	Elective	5	Science	5
Literature	3	Literature	3	Elective	2
	16		16	Literature	3

GENERAL LIBERAL ARTS (Transfer)**Associate in Arts****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	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
Chemistry or Geol.	5	Chemistry or Geol.	5	Chemistry or Geol.	5
Mathematics 10 or 15	3	Mathematics 15	3	Mathematics 20	3
Orientation	1	Elective	1	Elective	1
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Literature	3	Literature	3	Literature	3
Psychology 31	3	Psychology 22	3	Psychology 23	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 (Transfer)**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. 11	2	Home Econ. 2	5	Home Econ. 3	5
Art 11	3	Art 12	3	Home Econ. 33	2
Chemistry 21	5	Chemistry 22	3	Home Econ. 36	3
Intro. to Home Ec.	1	Physical Education	1	Physics 1	5
Speech 1	3				
	17		17		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Econ. 51	3	Home Econ. 52	3	Home Econ. 53	3
Psychology 21	3	Psychology 22	3	Biology 53	5
Biology 21	5	Chemistry 51	3-5	Chemistry 52	3-5
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	Physical Education	1		
			15-17		15-17

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. 33	2
Home Econ. 31	3	Art 12	3	Home Econ. 36	3
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

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
Pol. Sci. 1	3	Pol. Sci. 2	3	Pol. Sci. 3	3
History 11	3	History 12	3	History 13	3
Mathematics 10 or 14	3	Math. 15	3	Math. 20	3
Biology 1	3	Biology 2	3	Biology 3	3
Physical Education	1	Physical Education	1	Physical Education	1
Orientation	1				
	17		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physical Science	4-5	Physical Science	4-5	Physical Science	4-5
Foreign Language	5	Foreign Language	5	Foreign Language	5
Literature	3	Literature	3	Literature	3
Speech 11	3	Speech 12	3	Elective	3-5
Elective*	3	Elective	3		
	17-19		17-19		15-18

*Recommended Electives: Accounting or Economics.

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	5	Biology 32	5
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	3	Speech 13	3
Speech 11	3	Elective	4		
	19		17		17

*It is recommended that pre-medical students work toward a major in either biology or chemistry. Those electing the chemistry major should follow the mathematics sequence outlined for the science or engineering major on page 35.

MUSIC**Associate in Arts****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Music 1	3	Music 2	3	Music 3	3
Music 7	1	Music 8	1	Music 9	1
Applied Music	2	Applied Music	2	Applied Music	2
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Music 21	1	Music 22	1	Music 23	1
Music 10	2	Music 20	2	Music 30	2
Ensemble	1	Ensemble	1	Ensemble	1
Orientation	1	Physical Education	1	Physical Education	1
Physical Education	1				
	13		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21	3	Psychology 22	3	Psychology 23	3
Music 51	3	Music 52	3	Music 53	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

NURSING***Associate in Science****FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biology 11 (Human Anatomy & Physiology)	5	English 1	3	Home Econ. 15 (Nutrition)	3
Psychology 21	3	Biology 12	3	Psychology 33 (Human Growth & Development)	3
Orientation	1	Psychology 23	3	Sociology 53	3
Nursing 1 (Fundamentals)	3	Sociology 61	3	Nursing 13 (Medical-Surgical)	6
Survey of Physical Science	3	Nursing 12 (Medical-Surgical)	4	Physical Education	1
Physical Education	1	Physical Education	1		
	18		17		16

SUMMER — Eight Weeks

Nursing 20 (Psychiatric Nursing) 5 hours.

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biology 53 (General Microbiology)	5	English 2	3	English 3	3
Sociology 44 (Marriage and the Family)	3	Nursing 52 (Medical-Surgical)	8	Speech 11	3
Nursing 61 (Maternal and Child Health)	8	Electives (one in social science)	5	Nursing 63 (Problems)	8
	16		16	Nursing 73 (Trends)	2

*Since the nursing curriculum is in process of development as this catalog goes to press, the courses listed are projected, but are subject to change.

PRE-OPTOMETRY AND PRE-PHARMACY

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* and 24*	5	Mathematics 15 and 25*	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				
	15		17		17

*Students with a deficiency in mathematics will replace the indicated courses with: Math 10, Fall Quarter; Math 24, Winter Quarter; and Math 26, Spring Quarter.

SECOND YEAR* (Pre-Optometry)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21	3	Psychology 22	3	Psychology 23	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	Speech 1	3	Physics 43	4
		Elective	2		
	15		15		15

*Consult with counselor regarding Mathematics 51, 52, 53 for Optometry.

SECOND YEAR (Pre-Pharmacy)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41	4	Physics 42	4	Physics 43	4
Economics 51	3	Economics 52	3	Economics 53	3
Speech 1	3	Chemistry 51	5	Chemistry 52	5
Electives	7	Electives	5	Electives	5
	17		17		17

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 2	3
Orientation	1	Physical Education	1	Physical Education	1
Science 1	3				
	17		16		15

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21	3	Psychology 22	3	Psychology 23	3
Biology 51	5	Biology 52	3	Education 53	3
Education 51	3	Sociology 62	2	Sociology 63	2
Soc. Sci. or Lit.	3	P.E. 42	3	Soc. Sci. or Lit.	3
Elective	2	Soc. Sci. or Lit.	3	Elective	2
		Elective	2	P.E. 43	3
	16		16		15

SOCIAL SCIENCE

Associates in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Pol. Sci. 1	3	Pol. Sci. 2	3	Pol. Sci. 3	3
History 1 or 11	3	History 2 or 12	3	History 3 or 13	3
Foreign Language or electives	5-6	Foreign Language or electives	6	Foreign Language or electives	6
Orientation	1	Physical Education	1	Physical Education	1
Physical Education	1				
	16-17		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Literature	3	Literature	3	Literature	3
Science 1	3	Science 2	3	Science 3	3
Psychology or Biology	3	Psychology or Biology	3	Psychology or Biology	3
Economics 51	3	Economics 52	3	Economics 53	3
History 51	3	History 52	3	History 53	3
Sociology 61	2	Sociology 62	2	Sociology 63	2
	17		17		17

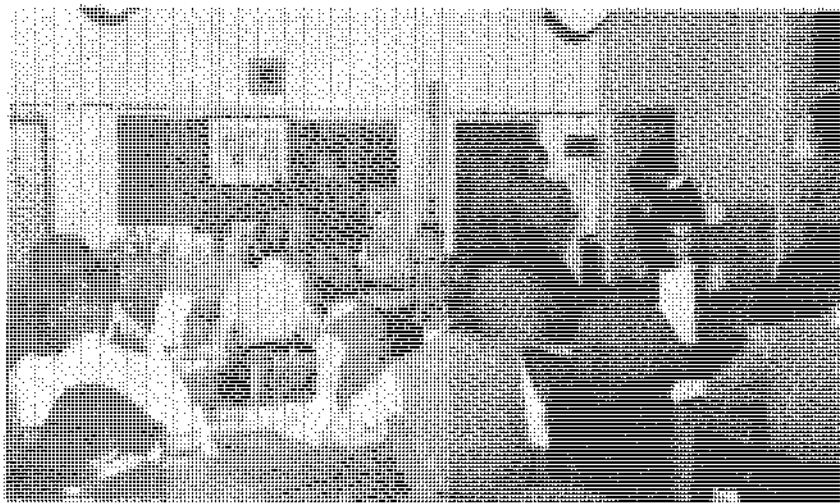
Other subject matter and vocational areas in which students may secure one or two years of lower division course work at Mesa College are:

Biology
Chemistry
Drafting
Dramatics
Economics
English
Pre-Forestry
Geology
Government
History
Journalism
Laboratory Technician
Language

Library Science
Literature
Mathematics
Medical Technician
Music Education
Philosophy
Physics
Physical Therapy
Political Science
Psychology
Sociology
Speech
Pre-Veterinary



Aerial View of the Campus



Class in Color and Design

COURSES OF INSTRUCTION

Arts and Science courses offered at Mesa College are grouped in fifteen 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, **History 52** is a course number and **United States History** 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

01. FRESHMAN ORIENTATION

FW. 1 hour

Orientation is a one hour, one quarter 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 cocurricular activities, social and personal adjustments. Students meet in small groups, with assigned faculty advisors for this course. Credit not intended for transfer.

Agriculture

Students enrolling for the study of agriculture at Mesa College should at the very outset decide whether they wish to take a course leading toward Agricultural Science, Applied Agriculture, or a terminal program. Career interest, aptitude, and scholastic background will, in a large measure, determine which of the above three alternatives the student should select. This selection is to be made after consultation with a faculty adviser.

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 per quarter.

2. FARM POWER

W. 2 hours.

A theory and demonstration course on internal combustion engines, electrical systems, and power transfer. Special attention is given to proper operation, care, and adjustment of motors, engines, and transportation equipment of the farm.

3. LIVESTOCK JUDGING AND SELECTION

F. 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 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. Prerequisite: 10 hours botany. Four hours lecture and discussion and two hours laboratory per week. Laboratory fee, \$3 per quarter.

42. ECONOMIC ORGANIZATION OF AGRICULTURE

W. 5 hours.

A study of the history of economic forces as they relate to American agriculture; the role of agriculture in today's economy; future economic prospects for agriculture; the scope of agricultural industry; and the relationships between government and agriculture.

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 per quarter.

56. SOILS**S. 5 hours.**

A study of the formation, properties, and management of soils. Special attention is given to soil conditions that affect crop yields. Four hours lecture and three hours laboratory per week. Prerequisite: Chemistry 1 and 2, or Chemistry 21 and 22. Laboratory fee, \$5.

61. FORAGE CROPS**F. 4 hours.**

A study of the production and preservation as hay or silage of the principle 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 per quarter.

63. FARM AND GARDEN INSECTS**W. 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 per quarter.



Mesa College Farm Overlooks the City

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.

1, 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 per quarter.

11, 12, 13. COLOR AND DESIGN

FWS. 2 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, \$5 per quarter. Six laboratory hours per week.

33. 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 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 per quarter.

83. LETTERING**S. 2 hours.**

Skills in pen and pencil lettering are emphasized. Word construction and layout designs 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 per quarter.

11, 12. HUMAN ANATOMY AND PHYSIOLOGY**Fall 5 hours****Winter 3 hours**

A study of the structure and function of the human body. Open to all students but designed especially for majors in nursing. Laboratory fee, \$15, payable Fall Quarter only.

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

The structure and functions 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 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 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 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 MICROBIOLOGY **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. Prerequisite: 9 hours biology, botany, or zoology. Laboratory fee, \$5 per quarter.

English

011 PRE FRESHMAN ENGLISH **FW. 3 hours.**

This is a remedial course stressing correct sentence structure, spelling, vocabulary, and reading. Entering Freshmen who fail to make satisfactory scores on the American College Test will be required to take this course and to pass a standardized test of college level before enrolling in English I. The class meets daily. Credit is not intended for transfer nor for graduation requirements. Special fee, \$1.

02. STUDY SKILLS **FW. 1 hour.**

This course is provided for students interested in improving reading efficiency and developing good study habits. Emphasis is placed on rate of reading, comprehension, vocabulary building, note taking, and the learning of techniques of concentration. Recommended for foreign students, for students who have had English 011, and those who have not been in school for a considerable length of time. Credit not intended for transfer nor for Associate degree.

03. READING IMPROVEMENT **F.W. or S. 1 hour.**

This developmental reading course is offered for students who wish to increase the effectiveness of their reading. It offers exercises to improve mechanical skills of reading and develops secondary skills and habits of thought necessary to efficient reading at higher levels. Credit not intended for transfer nor for Associate degree.

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. Because of the variation in subject matter sequence, students may not transfer from Arts and Science to Business School English sections until two consecutive quarters have been completed.

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. Eng. 21 stresses techniques of spelling improvement. Eng. 22 emphasizes vocabulary improvement. A student may, with the consent of the instructor, elect Eng. 22 without having taken Eng. 21.

31, 22, 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. LITERATURE**FWS. 3 hours.**

The student is introduced to representative literary figures of the world, to major types and forms of literary classics, and to their cultural backgrounds. British and American writers are not included because of their availability in other courses offered. Works studied include Homer, the Bible, Sophocles, Dante, Cervantes, Goethe, Moliere, Pushkin and others.

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.

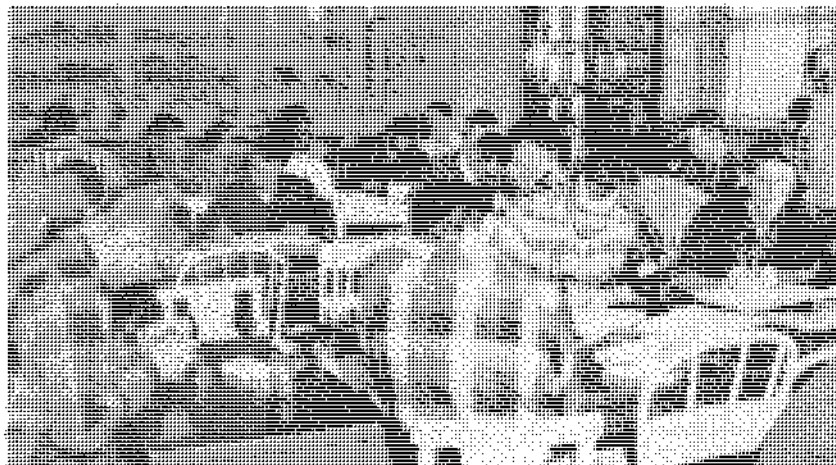
Note: The series 41, 42, 43, and 44 will fulfill the 9 hour literature requirement for graduation.

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

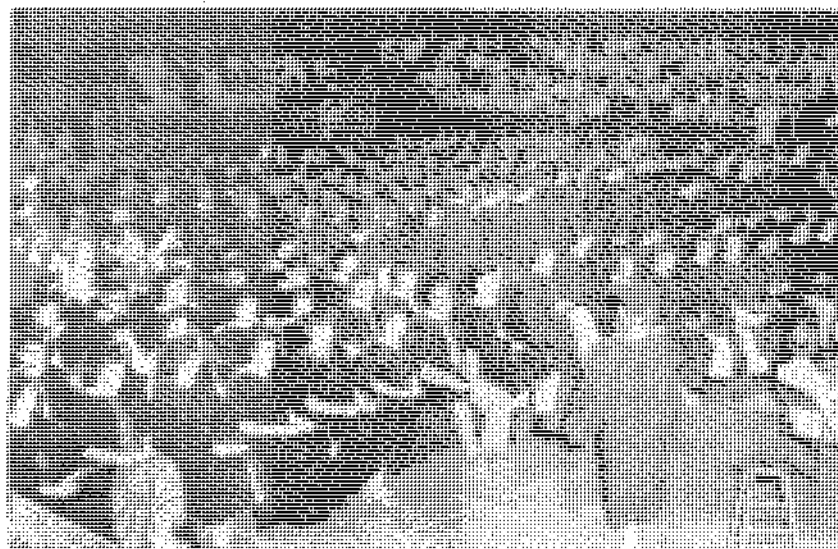
This course is planned to develop the students' understanding and appreciation of English and American poetry. The class analyzes poems as to form and philosophy and later the individual student engages in evaluation of representative poetry. Open to freshmen and sophomores.

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.



Biology Laboratory



Graduation

44. ESSAY AND BIOGRAPHY**S. 3 hours.**

Representative writings in the essay, biography and autobiography serve to acquaint the student with the development and place in literature of these three literary types. A survey study of the essay through the years is made. The contributions of Cellini, Franklin, Joyce, and Strachey are used to increase the student's knowledge and appreciation of biography and autobiography. Open to freshmen and sophomores.

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

11, 12. FUNDAMENTALS OF SPEECH**FWS. 3 hours.**

The first quarter is a basic course in speech designed to aid the student in acquiring ease, poise and effectiveness in speaking. Emphasis is placed on platform behavior, diction, delivery and speech organization. The second quarter places emphasis on the organization and delivery of various types of speeches.

13. ORAL INTERPRETATION**S. 3 hours.**

This course places emphasis on the oral reading of prose, poetry and drama in an expressive and artistic manner. Diction, quality of tone and meaning of material receive special attention. Prerequisite: Speech 11, 12 or permission of instructor.

16. VOICE AND DICTION**S. 3 hours.**

A study of the development and use of the speaking voice with emphasis on voice placement, speech sounds and the phonetic alphabet.

23, 24. RADIO AND TELEVISION SPEECH**FWS. 3 hours.**

A study in basic microphone techniques designed for all students interested in improving their oral reading of prose, poetry, news and other types of printed material. Emphasis on voice and diction.

41, 42, 43. PLAY PRODUCTION**FWS. 2 hours.**

This course acquaints the student with the many problems of play production. The first quarter places emphasis on acting techniques, the second quarter emphasizes the technical aspects of a production and the third quarter stresses direction and critical evaluation of productions.

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. Pre-requisite: Sophomore standing, or previous training in debating.

55. DRAMATIC ACTIVITIES**W. 2 hours.**

The use of creative dramatics in the teaching and correlating of subject material by the use of projects and puppets. This course is designed for the teacher, recreational leader or Sunday School teacher.

Foreign Language

The foreign language department operates a laboratory consisting of a monitoring console and fifteen student listening booths, each equipped with earphones, microphone, and a dual-channel tape recorder. The student can hear the voices of native speakers of the language he is studying, also can record and play back his own voice repeating the words of the master tape.

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.

51, 52, 53. SECOND YEAR FRENCH**FWS. 3 hours.**

A course to build up proficiency through reading some of the masterpieces of French literature and current French periodicals. This course affords also intensive practice in composition and conversation. Pre-requisite: two years high school French or one year college French. Open to freshmen who qualify.

GERMAN

1, 2, 3. FIRST YEAR GERMAN**FWS. 5 hours.**

This course develops the ability to speak and write simple German, and to read 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.

51, 52, 53. SECOND YEAR GERMAN**FWS. 3 hours.**

This course reviews the main essentials and includes the reading of representative works of German literature, and a continuation of the study of conversation and composition. Pre-requisite: two years high school German or one year college German. Open to freshmen who qualify.

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. Reading in text is supplemented by reading of short stories and newspapers.

51, 52, 53. SECOND YEAR SPANISH

FWS. 3 hours.

This course is designed to acquaint the student with representative works of Spain, Mexico, and South America. Considerable time is given to the reading of current Spanish periodicals and to the practice of spoken and written Spanish. Prerequisite: two years high school Spanish or one year college Spanish. Open to freshmen who qualify.

Home Economics

01. ORIENTATION (Introduction To Home Economics)

F. 1 hour.

An orientation course for Home Economics majors.

4. CLOTHING

FS. 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 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 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 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. 3 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.

32. HOME MANAGEMENT

W. 3 hours.

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

34. INTRODUCTION TO CHILD CARE

F. 3 hours.

A lecture course pertaining to pre-natal growth; care of mother and baby; behavior patterns of the pre-school age child as shown in physical, emotional, and social growth.

35. PRE-SCHOOL LABORATORY

W. 2 hours.

A continuation of the Introduction to Child Care. The course consists of practical laboratory observation and experience with pre-school-age children. Laboratory schedule to be arranged. Prerequisite: H.Ec. 34.

36. **HOME FURNISHING AND HOUSE PLANNING** 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 per quarter.
53. **PREPARATION AND SERVICE OF MEALS** S. 3 hours.
Planning, preparing and serving family meals. Laboratory fee, \$5 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 per quarter.

Mathematics and Engineering

MATHEMATICS

01. **BASIC MATHEMATICS** F. 3 hours.
A course in the fundamentals of basic algebra and plane geometry for students lacking adequate mathematical background for Math 10. Credit not intended for transfer nor for Associate degree requirements.
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.
14. **COLLEGE ALGEBRA** F. or W. 3 hours.
A course for students with a good foundation of high school mathematics as shown by high school transcripts and entrance tests. 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.
15. **COLLEGE ALGEBRA** W. or S. 3 hours.
A course for general liberal arts students. Topics included are: number systems, graphs, proportion, variation, progressions, permutations, combinations, and an introduction to probability, statistics, and finance. This course is also recommended for pre-medicine, pre-law, business administration and psychology students. Prerequisite: Math 10 or 14.
16. **COLLEGE ALGEBRA** W. or S. 3 hours.
A course for engineering students, mathematics majors, and technicians who need functional mathematics. Emphasis is on application. Topics included are inequalities, variations, mathematical induction and the binomial formula, progressions, complex numbers, theory of equations, partial fractions, and infinite series. Prerequisite: Math 14 or Math 10.

- 20. PLANE TRIGONOMETRY** S. 3 hours.
A general introduction to the theory and uses of trigonometry for liberal arts students. 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 De Moivre's Theorem. 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 numbered and spherical coordinates. Prerequisite: Math. 26 or consent of instructor.
- 51, 52, 53. DIFFERENTIAL AND INTEGRAL CALCULUS.** FWS. 5 hrs.
Fall quarter: Variables, functions, limits, differentiation, successive differentiation, differential, integration of simple forms, constant of integration, the definite integral, integration a process of summation, and applications. Winter quarter: applications of transcendental functions, parametric and polar equations, curvature, radius and circle of curvature, Theorem of Mean Value, integration of standard elementary forms. Spring quarter: formal integration by various devices, reduction formulas, tables of integrals, series, expansion of functions, ordinary differential equations, partial differentiation, multiple integrals. Prerequisite: Math 30 or consent of instructor.
- 63. INTRODUCTION TO DIFFERENTIAL EQUATIONS** S. 3 hours.
A study of elementary topics in differential equations including an expansion of topics usually studied in third quarter calculus and applications thereof. Prerequisite: Mathematics 53.

ENGINEERING

- 01. ORIENTATION (Engineering Professions)** F. 1 hour.
An orientation course for Engineering Majors.
- 1, 2, 3. ENGINEERING PROBLEMS** FWS. 1 hour.
A course which emphasizes proper methods of problem solving, correct form, and an introduction to some of the elements of various fields of engineering. The first quarter's work stresses correct form, logarithmic solutions, use of handbooks, and engineering procedures. Students may not take E-1 simultaneously with Math 01. The second quarter is devoted to the study of the slide rule, and students must have had, or must be taking, a course in trigonometry. The third quarter is devoted to a study of elementary statics and dynamics, with E-2 as a prerequisite.

11. 13. 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, and development of surfaces are included in Course 13. 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 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 required to make complete working drawings of each problem. Prerequisite: E 11, 12, and 13.

62. STATICS**W. 4 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. 4 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, and field astronomy. Prerequisite: Math 24 and 26. Laboratory fee, \$5, Fall Quarter.

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. Laboratory fee, \$5.

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. Laboratory fee, \$5.

Music

THEORY AND MUSIC

1, 2, 3. ELEMENTARY THEORY**FWS. 3 hours.**

This course is designed to give the student a thorough ground work in the elements of music. A detailed study is made of keys, scales, modes, intervals, triads, seventh chords, etc. The techniques and rules of simple, four-part harmony are studied and practiced and keyboard techniques for the above are developed.

7, 8, 9. SIGHT SINGING AND EAR TRAINING**FWS. 1 hour.**

Sight singing is developed by practice in vocal recognition of tonal and rhythm patterns and by singing graded musical exercises. Ear training is developed by means of rhythmic, melodic, and harmonic dictation exercises. The course should be taken in conjunction with Elementary Theory since materials in both courses are correlated.

11. MUSIC FUNDAMENTALS**F. 1 hour.**

Designed for those students who have little previous knowledge of music. Among the topics studied are: Notation, scales, key signatures, harmony, and melody. Fundamentals of piano and voice, and a description of orchestral instruments are presented.

12, 13. MUSIC EDUCATION METHODS**WS. 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; rhythm bands; methods of teaching rote and note songs; treatment of non-singers; organization of music groups; teaching music appreciation to children.

10, 20, 30. HISTORY OF MUSIC**FWS. 2 hours.**

This course makes a survey of the history of musical development from prehistoric to modern times. Musical events are studied in their relation to world history. Lectures and readings are illustrated with recordings, films, and guest performances. The course is open to any student any quarter.

21, 22, 23. INSTRUMENTAL CLASS**FWS. 1 hour.**

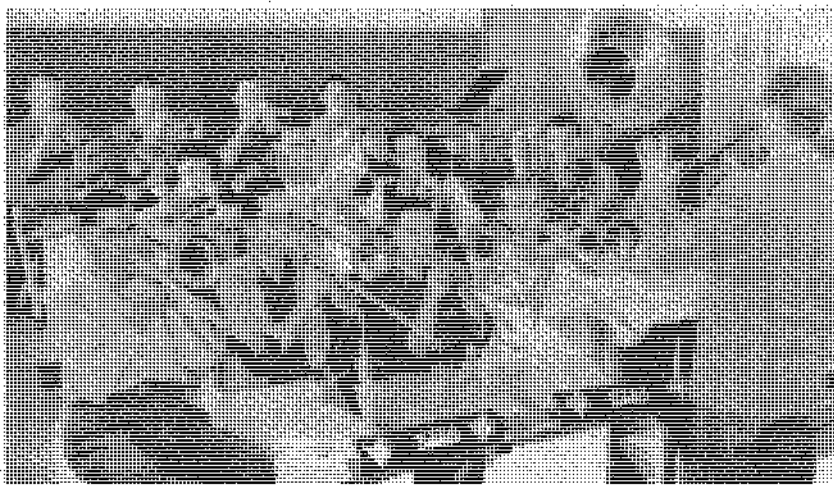
This course provides classroom instruction to beginners in woodwinds (Fall Quarter), strings (Winter Quarter), and brass (Spring Quarter).

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

Only those who have mastered the material of Elementary Theory should register for this course. Topics studied include altered chords, modulations, non-harmonic tones, elementary counterpoint, and musical forms. Four-part harmony from melody and figured bass is stressed. Original composition is practiced and encouraged. Drill in sight-singing, and melodic and harmonic dictation is continued from the first year program.

67, 68, 69. CONDUCTING**FWS. 1 hour.**

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



Brass Choir

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. ½ 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. 1½ 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. 1½ 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. 1½ 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 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.

4e, 5e, 6e, 54e, 55e, 56e. VOICE**FWS. 1 hour.****4, 5, 6, 54, 55, 56. VOICE****FWS. 2 or 4 hours.****14e, 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.****44e, 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.**

Nursing

This is a new program at Mesa College. It is approved by the State Board of Nursing for the admission of the first class in September, 1962. Upon completion of the prescribed course of study, the graduate receives the Associate in Science degree and is eligible to take the examination for licensure as a Registered Nurse.

The purpose of the nursing curriculum is to prepare graduates to serve as registered nurses in first level (staff nurse) positions in hospitals, nursing homes, physicians' offices, and other health agencies where adequate direction is provided.

Laboratory experiences are planned with St. Mary's Hospital, Veterans' Administration Hospital, and other health and welfare agencies in the community. Psychiatric nursing is scheduled for the summer following the first academic year, in an institution to be selected. Generally three hours of laboratory are equivalent to one hour of class. While the time allotted to each is not noted in the following course descriptions, laboratory is considered a vital part of each clinical nursing course.

1. FUNDAMENTALS OF NURSING

F. 3 hours.

The student learns and applies basic principles of nursing care. She learns to deal with and care for patients who present nursing problems within the scope of her ability to solve. Laboratory fee, \$10.

12, 13, and 52. MEDICAL-SURGICAL NURSING

WS., and F. or W., second year 18 hours.

The student learns to care for patients with medical and surgical conditions, beginning in Nursing 12 with those who present relatively simple nursing problems, and progressing through Nursing 52, to the more complex. Consideration is given to the various treatments used—medicines, operative procedures, rehabilitative measures, etc.

20. PSYCHIATRIC NURSING

Summer. 6 hours.

Although the concepts of psychiatric and mental health nursing are integrated throughout the curriculum, eight weeks in the summer of the first year are devoted to intensive learning in relation to patients with mental and emotional disturbances. Emphasis is placed upon the therapeutic milieu and the role of a nurse in the development of positive mental health both for herself and for others. Laboratory fee, \$10.

61. MATERNAL AND CHILD HEALTH.

F. or W. 8 hours.

The student learns to care for mothers in the pre- and post-partum period as well as during labor and delivery, for the infants, and for children. She views the life-cycle from the focus of the family, and learns to teach parents in the care of themselves and their children. Experience is gained in the hospital and in other health and social agencies where mothers, babies, and children are found. Laboratory fee, \$10.

63. PROBLEMS IN NURSING

S. 8 hours.

In this course the student learns to solve increasingly complex nursing problems such as may confront her as a graduate nurse. Examples are: the care of patients requiring a variety of nursing measures and a high quality of knowledge and skill; care of groups of patients; direction of auxiliary workers; emergency situations; rehabilitative measures. Clinical experiences will be drawn from hospital and health agencies.

73. TRENDS IN NURSING**S. 2 hours.**

Although the historical heritage of nursing will be considered throughout the program, this course will bring together the past development of the profession, its current situation, and the way these may determine its future development. Each student will be encouraged and assisted to find her own role in nursing.

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 students, except one-year business students and adults over twenty-five, are required to take physical education for a minimum of three quarters 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.**

Activities vary according to season and include one or more of the following: tennis, football, touch-football, basketball, tumbling, gymnastics, volleyball, softball, baseball, track, wrestling, social dancing, folk and square dancing, bowling, skiing, and golf. 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, shuffleboard, bowling, and social dancing.
PEW 2 & 52. Winter quarter includes such activities as basketball, volleyball, badminton, tumbling, bowling, skiing, social and modern dancing.

PEW 3 & 53. Spring quarter includes such activities as softball, golf, archery, tennis, bowling, social dancing, and modern dance.

20. FIRST AID**FWS. 2 hours.**

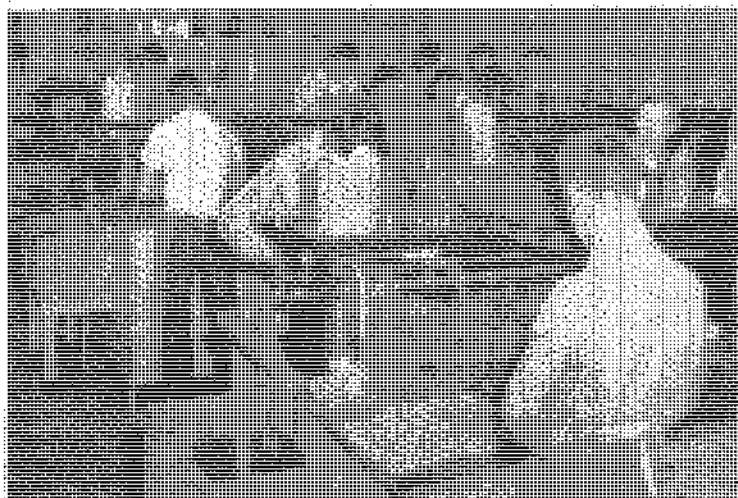
This course includes standard and advanced First Aid procedures. Red Cross certification.

P.E. 42. INTRODUCTION TO PHYSICAL EDUCATION W. 3 hours.

A course to acquaint students with the background, growth, philosophy, and trends in physical education. Physical education's role in the development and adjustments of the individual, and the qualifications, responsibilities, and training of physical education teachers are given consideration.

P.E. 43. OFFICIATING AND MANAGEMENT OF SPORTS**W. 3 hours.**

A class for physical education majors designed to acquaint the students with the roles of the three major sports: football, basketball, and baseball. Problems pertaining to organizing and administering school athletic programs are also considered.



Chemistry Laboratory

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 astronomy, meteorology, and geology; course 2 includes force and motion, heat, electricity, sound and light; and course 3 includes the chemistry of matter and nuclear energy. Not open to students who are taking or have taken other college courses in physical science.

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. Math 10 or 14 must be taken prior to, or concurrently with this course. Laboratory fee, \$5 per quarter.

21, 22, 23. GENERAL CHEMISTRY**FWS. 5 hours.**

Lectures and laboratory. Fundamental principles of general inorganic chemistry and application 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, Nursing, Veterinary Medicine, Homemaking, and Agriculture. Laboratory fee, \$5 per quarter.

51, 52. ORGANIC CHEMISTRY**WS. 3 or 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. Course may be taken without laboratory for 3 hours credit. Prerequisite: Chemistry 2 or 22. Laboratory fee, \$5 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 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 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 per quarter.

2. GEOLOGIC PROCESSES**W. 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 1. Laboratory fee, \$5 per quarter.

3. HISTORICAL GEOLOGY**S. 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 per quarter.

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

A course in physics consisting of lectures, demonstrations, discussions, and laboratory work is 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. Four discussion and lecture periods and one three-hour laboratory period per week. Laboratory fee, \$5 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. The topics studied are mechanics, heat, electricity and magnetism, sound, light and atomic physics. Three discussion and lecture periods and one three-hour laboratory period per week. Prerequisite: Trigonometry. Laboratory fee, \$5 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 lectures and discussion periods and one three-hour laboratory period per week. Note: Calculus must be taken parallel with this course. Laboratory fee, \$5 per quarter.

Social Science

ECONOMICS

43. CONSUMER ECONOMICS**F. 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.**

An introductory course the dual purpose of which is to provide basic background for the student who plans to pursue advanced study in the field as well as to equip the ordinary citizen with some basic tools of economic analysis needed for enlightened citizenship. The study includes an analysis of American capitalism, national income, government and fiscal policies, money, banking and monetary policies, the economics of the firm, international economic policies, competitive economic systems, and some current domestic and international economic problems. Not open to freshmen.

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, special emphasis is placed on the historical and ideological reasons for these events. Economic, social, and political problems are discussed. Although current periodicals are the chief source of materials, students are encouraged to obtain necessary background by the use of library resources. The course 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 discussions, reports, lectures, textbooks, a wide range of reading in books and periodicals are used.

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

A study of the basic teachings of the great philosophers of the Western tradition, particularly in the fields of logic, ethics, and politics. Reading, lecture, and discussion are used to provide introductory knowledge of important philosophical concepts and to aid the student in defining the elements of his own developing philosophy of life. This is a foundation-type course for upper division courses in philosophy, religion, humanities, and social science.

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.

SOCIOLOGY**61, 62. GENERAL SOCIOLOGY****FW. 3 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. 3 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. Prerequisite: Soc. 61 and 62.

44. MARRIAGE AND THE FAMILY**FWS. 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.

GEOGRAPHY**1, 2, 3. GEOGRAPHY****FWS. 3 hours**

A comprehensive survey of basic physical, social and economic geography of world regions. Course includes study of basic social patterns, exports and imports, topographical features, climates, and political influences in the various sections of the earth. Map study, readings and research reports are included in the course requirements. North and South Americas are studied Fall Quarter; Europe and Asia Winter Quarter; Spring Quarter includes study of Africa, Australia, sections of Asia, Arctic and Antarctic regions, ocean and island areas.

Education And Psychology

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.

PSYCHOLOGY**21, 22, 23. 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. Special fee, \$1.

33. HUMAN GROWTH AND DEVELOPMENT**S. 3 hours.**

This course is designed to assist the student in understanding the physiological development of the individual from conception through the period of old age. Prerequisite: Psychology 21 and 22. Special fee, \$1.

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. Special fee, \$1.

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.

ASSOCIATE IN COMMERCE 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 in addition complete the following special course requirements.

Social Science or Literature	18 hours
Business Mathematics	4 hours
*College Mathematics and/or Science	9 hours
Business Machines (May include machine transcription)	3 or 4 hours
Additional special requirements for those in the Accounting option include:	
Accounting (Principles)	9 hours
Business Law	6 hours
Intermediate Typewriting	2 hours
Additional special requirements for those in the Secretarial option include:	
Business Law	3 hours
Intermediate and Advanced Typewriting	4 hours
Beginning Dictation	4 hours
Secretarial Practice	3 hours
Secretarial Accounting or equivalent	3 hours

*This requirement may include Home Economics 2, 12, 51, 52, 53, for terminal students.

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. It is a terminal course and is not required for those who plan to take Principles of Accounting. No credit allowed if credit already established in Accounting 32.

31, 32, 33. 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 principals of double-entry book-keeping, 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 per quarter.

62, 63. INTERMEDIATE ACCOUNTING WS. 3 hours.

A two quarter course developed to fit the needs of two groups of students: the terminal student who wishes to have a better understanding of accounting theory; and, the accounting and business administration majors for whom the intermediate study is the foundation for specialized courses. The course presents a continuation of Corporate accounting with emphasis on financial statements and current items. Final quarter is devoted to a further study emphasizing noncurrent items and corporate capital. Prerequisite: Accounting 33. Special fee, \$3 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.

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.

15. WORD STUDY (Business)

S. 2 hours.

Continuation of Business 10.

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 calculators, and posting machine. A student earns two hours for each machine completed. Class meets daily. Special fee, \$5 per quarter.

32. 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.

39. INSURANCE

S. 3 hours.

A basic study of the common types of protection afforded by insurance including fire, life, automobile, accident, and health.

41. BUSINESS MATHEMATICS

FWS. 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** **F. 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 Principle 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. BEGINNING TYPEWRITING** **FW. 2 hours.**
 A course for those students with no previous training. No credit will be given if student has high school credit. Class meets daily. Special fee \$5 per quarter. Available in night school only.
- 2. BEGINNING TYPEWRITING (continuation of SS 1)** **WS. 2 hours.**
 No credit will be given if student has high school credit. Class meets daily. Special fee, \$5 per quarter. Available in night school only.
- 14. 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 per quarter.
- 15. 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: SS 14. Class meets daily. Special fee, \$5 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. 14. Special fee, \$5 per quarter.
- 21. SHORTHAND THEORY** **F. 4 hours.**
 A course for those students with no previous knowledge of shorthand. No credit will be given if student has high school credit. Class meets daily.
- 22. SHORTHAND THEORY (continuation of SS 21)** **W. 4 hours.**
 A limited amount of dictation is given during this quarter. No credit will be given if student has high school credit. Class meets daily.

- 23. BEGINNING DICTATION** FWS. 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: SS. 22 or equivalent. SS. 11 or enrollment in SS. 14. Class meets daily. Special fee, \$3 per quarter.
- 31. INTERMEDIATE DICTATION AND TRANSCRIPTION** W. 4 hours.
A dictation speed of 90-100 words a minute is attained, with a mailable transcript. Prerequisite: SS. 23. Class meets daily. Special fee, \$3 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: SS. 31. Class meets daily. Special fee, \$3 per quarter.
- 33. SECRETARIAL PRACTICE** S. 3 hours.
The application of typing and shorthand to office situations. Business dress, business ethics, personality development. Prerequisite: SS. 23 and S.S. 14.

Suggested Type Curriculums in Business

BUSINESS ADMINISTRATION

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Mathematics 10 or 14	3	Mathematics 15	3	Mathematics 20	3
Chem. or Geol.	5	Chem. or Geol.	5	Chem. or Geol.	5
Elective	2	Elective	4	Speech 11	3
Orientation	1	Physical Education	1	Elective	2
Physical Education	1			Physical Education	1
	15		16		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	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

ACCOUNTING (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Accounting 31	3	Accounting 32	3	Accounting 33	3
Business 31	1	English 2	3	English 3	3
English 1	3	Business 32	2	Business 23	2
Business 41	4	Elective	3	Sec. Science 14	2
Elective	4			Elective	6
Bus. 10	2				
	17		16		16

ACCOUNTING (18 Months)

Associate in Commerce

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 61	1	Business 33	3	Sec. Science 14	2
Accounting 31	3	Accounting 32	3	Accounting 33	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		17-15		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	2	Speech 11	3
Literature*	3	Literature*	3	Literature*	3
Psychology	3	Psychology	3	Psychology	3
Elective	3	Accounting 62	3	Accounting 63	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		15		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 31	3
English 1	3	English 2	3	English 3	3
Sec. Science 1	2	Sec. Science 2	2	Sec. Science 14	2
Business 10	2	Business 23	2	Speech 11	3
Business 41	4	Elective	7	Elective	5
Elective	4				
	16		16		15

STENOGRAPHIC COURSE (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 31	1	Speech 11	3	Accounting 13 or 31	3
English 1	3	English 2	3	English 3	3
Sec. Science 14	2	Business 42	2	Business 23	2
Sec. Science 23	4	Elective	2	Business 41	4
Business 10	2	Sec. Science 15	2	Sec. Science 32	4
Elective	4	Sec. Science 31	4		
	16		16		15

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 21	4	Sec. Science 22	4	Sec. Science 14	2
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Science 23	4
Business 01	1	Physical Education	1	Sec. Sci. or Lit.	3
Business 41	4	Speech 11	3	Physical Education	1
		Elective	2	Accounting 13 or 31	3
	15		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
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physical Education	1	Sec. Science 15	2	Sec. Science 13	1
Business 51	3	Sec. Science 31	4	Sec. Science 33	3
Business 21	2	Elective	2-4	Business 23	2
Elective	2-4			Elective	2-4
	16		16		16

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

ADULT AND VOCATIONAL EDUCATION

In keeping with the purposes of the college, the adult and vocational education program attempts to serve community needs through the courses offered. The first type of course offered is for adults interested in cultural, informational, appreciational, and general educational subjects. The second type of course is aimed at developing vocational skills, competence, and understanding. 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

Courses are being offered in Psychology, Sociology, Reading Improvement, Word Study, Geology, World Civilizations, Spanish, French, Rocketry, Driver Education, Basic Mathematics, Algebra, Investments, Woodwork, Lapidary & Silverwork, Ladies and Men's Physical Recreation, Citizenship, Great Decisions discussion program on foreign policy, Mesa College Civic Symphony and many others. Programs are developed by the Music, Art, Dramatic and Science departments. Future courses planned include Community chorus, Music Understanding, Chemistry, Physics, Small Business Management, Real Estate and others depending upon the interest of the community. Contact the Adult Education Office for a brochure and additional information.

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 four evenings each week during fall, winter, and spring quarters, from 6:30 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. Book-keeping 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, farm law, farm welding, 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, Interior Decoration, Candy Making, Cake Decoration, Furniture Upholstery, Furniture Repair and Remodeling, Law for Laymen, Millinery, Slip Covering, Meal Planning, and Living in the Home. Parent Education for pre-school children is offered in Grand Junction, Fruita, and Loma in mornings and afternoons.

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 hospitals and doctors' offices as trained practical nurses. Five hundred hours of classroom and 1200 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 at the beginning of the fall quarter. Application for admission should be made by August to the Adult Education office. A physical examination is required. Tuition: \$25 per quarter.

*Credits earned in this course are not applicable to the Associate degree program.

Trade and Industrial Education

A limited selection of Trade and Industrial courses are offered in the adult night school program for terminal credit. Such courses are open to day school students if desired.

1N, 2N, 3N. AUTO MECHANICS

FWS. 2½ hours.*

This course includes theory and practice in maintenance and repair of the automobile. Electrical theory, motor tune-up, transmission overhaul and adjustment, motor overhaul including bearing, piston, and ring fitting, carburetor and adjustment, and repair of all related accessories. Offered in the evening only. Instructional fee: \$13.00.

4N, 5N, 6N. WELDING

FWS. 2½ hours.*

This course is designed to prepare the student for certification tests on plate in the four positions. Arc (DC-AC) and acetylene are available. Fundamental operations taught with mild steel; however stainless and pipe welding, cutting, brazing and hard-surfacing are taught to those interested. ASME bend test used on welds. Individual instruction. Gloves, helmet, and goggles required. Offered in the evening only. Instructional fee: \$13.00 plus materials fee: \$23.00.

11N, 12N, 13N. AUTO BODY AND FENDER REPAIR

AND PAINTING

FWS. 2½ hours.*

A course designed to prepare the trainee for employment as an auto body mechanic or painter. Theory and practice is given in alignment, metal working, light welding, use of presses and arbors in straightening parts, matching colors and painting, and assembly and disassembly of the auto body. Offered in the evening only. Instructional fee: \$13.00.

21N, 22N, 23N. MACHINE SHOP

FWS. 2½ hours.*

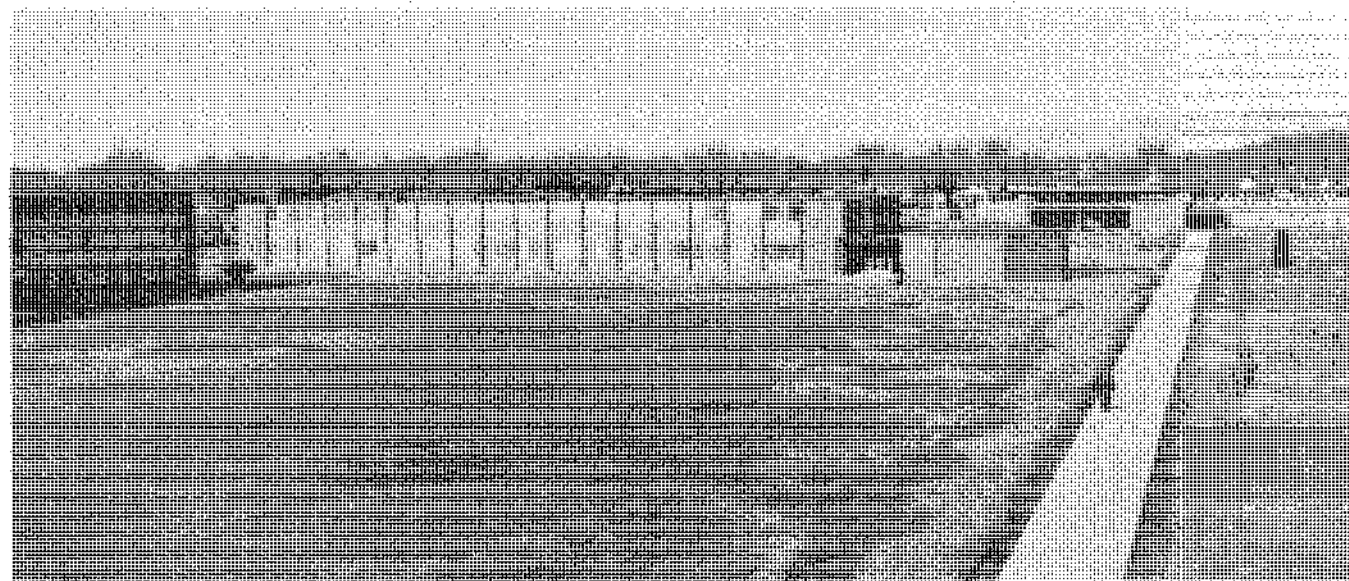
A general course in machine shop practice to prepare the student for employment in machine shop, factories, or related occupations. Blueprint reading, shop mathematics and the operation of engine lathes, milling machines, grinders, drills, etc. in making individual projects and in a production line. Offered in the evening only. Instructional fee: \$13.00.

*Credits earned in this course are not applicable to the Associate degree program.

Additional courses including Firemanship, Carpentry, Plumbing, Sheet Metal, Slide Rule, Electricity, Electronics, Drafting, Layout for Metalworkers, Building Code Interpretation, Blueprint Reading, Supervisory Training and Management Development 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.

Additional information and course descriptions can be obtained from the Adult Education Office.



Looking North from Administration Building — Mary Rait Hall (left); Horace Wubben Hall, and New College Center Building (right)

SUMMER QUARTER 1962

The summer quarter will begin June 11 and end August 17, 1962. The quarter will be divided into two terms of five weeks each and students may receive credit for work done in either term in certain courses or for the entire quarter.

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	\$ 5.00
Each five weeks' course	10.00
Each ten weeks' course (except typing)	15.00
Typewriting (10 weeks—double period)	20.00

ARTS AND SCIENCES

One or more courses will be available in each of the following subject matter areas: mathematics, physical sciences, English, biological sciences, social sciences, humanities, and applied music. These courses will be taught by regular staff members and will conform in content and presentation to regular course offerings as described in the catalog. This will provide the opportunity for brush-up in preparation for academic courses to be taken during regular terms at Mesa College or elsewhere, or for the accumulation of credit hours to be used as replacement for those of similar courses offered during the regular school year. Additional information will be available from the Registrar after May 1.



Homecoming Queen Ceremony

RANGELY COLLEGE

OFFICERS OF ADMINISTRATION

William A. Medesy, B.S., M.A., Ed.D.	Dean
Robert E. Clark, B.S., M.S.	Business Officer
Maurice C. Kreutz, B.S., M.S.	Administrative Assistant
George B. Young, B.S.M.E.	Superintendent of Buildings and Grounds

FOREWORD

Rangely College, a branch of Mesa College, was established in 1960 and will admit its first class in September of 1962. As a branch of Mesa College the college at Rangely is accredited by the North Central Association of Colleges and Secondary Schools.

LOCATION

Rangely College is located in Rangely, Rio Blanco County, on Highway 64 between Artesia and Meeker approximately 90 miles northwest of Grand Junction. The college grounds are located on a 300 acre tract of land overlooking and to the East of the Town of Rangely.

PROGRAM

Rangely College offers instruction in three types of two-year programs as follows: (1) arts and science (transfer) leading to the degree of Associate in Arts or Science for students who plan to continue their studies in a four-year institution, (2) technical or professional (terminal) leading to the degree of Associate in Applied Science for students who do not plan to attend college for more than two years and who are interested in a definite employment objective, and (3) general education (terminal) leading to the degree of Associate in Arts for students who wish to acquire a general cultural background.

BUILDINGS AND EQUIPMENT

The Rangely campus comprises 300 acres on which are located nine buildings erected during 1961-62. Constructed in western style architecture, at a cost in excess of \$2,600,000, the campus has one of the finest small college physical plants in the country.

The main building, the Student Center, includes administrative offices, faculty offices, library, health office, cafeteria, bookstore, and recreational areas.

Four buildings provide facilities for classroom and laboratory instruction. In addition to laboratories for instruction in chemistry, physics, and general science, the college has a completely equipped dental hygiene clinical laboratory and three laboratories for instruction in technical fields. The several laboratories are fitted with modern equipment, providing students with an opportunity to accomplish high quality work.

The gymnasium is furnished with equipment for physical education classes, sports, and social activities. Athletic fields are located nearby.

Two residence halls, one for men and one for women, each accommodating 40 students, provide comfortable quarters for students assigned two to a room. A full-time trained counselor is in residence and available for consultation at all times. Two additional residence halls, each accommodating 40 students, are scheduled for construction during 1962-63.

HOUSING

All women students, except those living at home in Rangely or commuting from their homes, are required to live in campus residence halls. A limited number of accommodations for men students are available in private homes in Rangely.

PERSONNEL SERVICES

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

HEALTH SERVICES

A full-time registered nurse is on duty during class hours. Two physicians and two dentists are available for private consultation. A new 32 bed hospital in Rangely is available for extended illnesses or injuries.

STUDENT ACTIVITIES

The administration and faculty will assist the first class to organize activities such as student government, publications, musical organizations, interest clubs, intramural sports, etc.

PHYSICAL EDUCATION AND SPORTS

One year of physical education is required. Activities are designed to develop and maintain physical fitness and improve basic athletic and leisure time recreational skills of interest and value to the future graduate.

The intramural program is organized in a large variety of sports permitting students to compete in activities of their choice.

Initially, the inter-collegiate athletic program will consist of informal competition which best fits the needs of the college and its students.

ENROLLMENT

The administration is preparing for an enrollment of 100 to 125 students when the college admits its first class in September of 1962. By 1965 the enrollment is expected to grow to 250 students. The planned capacity of the physical plant is 500 students.

EXPENSES

The following table shows expenses for one year at Rangely College. All costs are approximate and the administration reserves the right to make changes.

	Within District	Res. Outside District	Out of State
Tuition	None	None	\$180
Room and Board	\$695	\$695	695
College Fee	105	105	105
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	\$800	\$800	\$980

The room and board cost includes 20 meals per week. Each student is required to pay a matriculation fee of \$5.00. The College Fee covers a student activity ticket, library services, student publications, College Center use, health services, and other college services. Laboratory fees vary from \$5.00 to \$10.00 per quarter. Books and supplies vary with the student's program and range from \$50.00 to \$90.00 per year.

FINANCIAL AIDS

Rangely College expects to participate in the National Defense Education Act Student Loan Program. A financial aids program for needy and worthy students is being developed. Some part-time employment on the campus will be available.

CURRICULUM

Each program covers two academic years leading to the degree of Associate in Arts, Associate in Science, or Associate in Applied Science.

ADMISSION TO RANGELY COLLEGE

Admission to Rangely 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 residents, at the office of the high school principal.

High School graduates who have completed satisfactorily a minimum of 15 acceptable units of high school work, are eligible for admission to the freshman class.

The programs and special course preparation required for each follow:

Curriculum	Courses and Units
Dental Hygiene	Biology (1), Chemistry (1)
Electronic Technology	Mathematics (2½), Physics (1)
Medical Office Assistant	Biology (1), Chemistry (1)
Radiology Technology*	Biology (1), Mathematics (1)
Minerals Technology	Mathematics (2½), Chemistry (1)
Technical Administrative Assistant	Mathematics (1), Science (1)

*A nine month program preceded by three months and followed by 21 months of instruction at St. Mary's Hospital in Grand Junction.

FOR FURTHER INFORMATION

Write to Director of Admissions
Rangely College
Rangely, Colorado

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