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GRAND JUNCTION, COLORADO

1963 - 64

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

1963

SEPTEMBER

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1964

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College Calendar . . .

SUMMER QUARTER 1963

June 10	Registration, Term Begins
August 16	Summer Terms Ends

FALL QUARTER

September 1	New Student Credentials Due
September 6, 7	Colorado Junior College Conference Northeastern Junior College, Sterling, Colorado
September 10, 11	Faculty Workshop
September 12, 13, 14	Orientation, Registration Counseling, and Testing for New and Transfer Students
September 16, 17, 18	Registration
September 18, 12:30 p.m.	Classes Begin
September 25, 7:00-9:00 p.m.	Night School Registration
September 27	Last Day to Change Schedule
October 28-30	Mid Term Tests
November 27, 12:00, Noon	Thanksgiving Vacation Begins
December 2	Classes Resume
December 10	Final Examinations Begin
December 13	Fall Quarter Ends

WINTER QUARTER 1964

January 4, 8:00 a.m.	New and Transfer Student Testing
January 6	Registration
January 7, 8:00-11:00 a.m.	Registration Continues
12:30 p.m.	Classes Begin
7:00-9:00 p.m.	Night School Registration
January 15	Last Day to Change Schedule
February 10-12	Mid Term Tests
March 13	Final Examinations Begin
March 18	Winter Quarter Ends

SPRING QUARTER

March 23	Registration
March 24, 8:00-11:00 a.m.	Registration Continues
12:30 p.m.	Classes Begin
7:00-9:00 p.m.	Night School Registration
April 1	Last Day to Change Schedule
April 20-22	Mid Term Tests
May 29	Final Examinations Begin
June 5	Commencement

SUMMER QUARTER 1964

June 8	Registration, Term Begins
August 14	Summer Term Ends

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 and the \$10 application fee (see page 25) 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. (A \$10 application fee must accompany the admission application. See page 25.)
 - b. An official transcript of all credits earned from each college or university previously attended.
 - c. An official report of A.C.T. Test scores. (Transfer students who have not taken these tests previously must make arrangements with the Registrar to take them prior to registration.)

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 students 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 \$4 fee must be submitted with a reservation form to the A.C.T. Regional Office 4 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 26 for further information.)

Mesa College Catalog



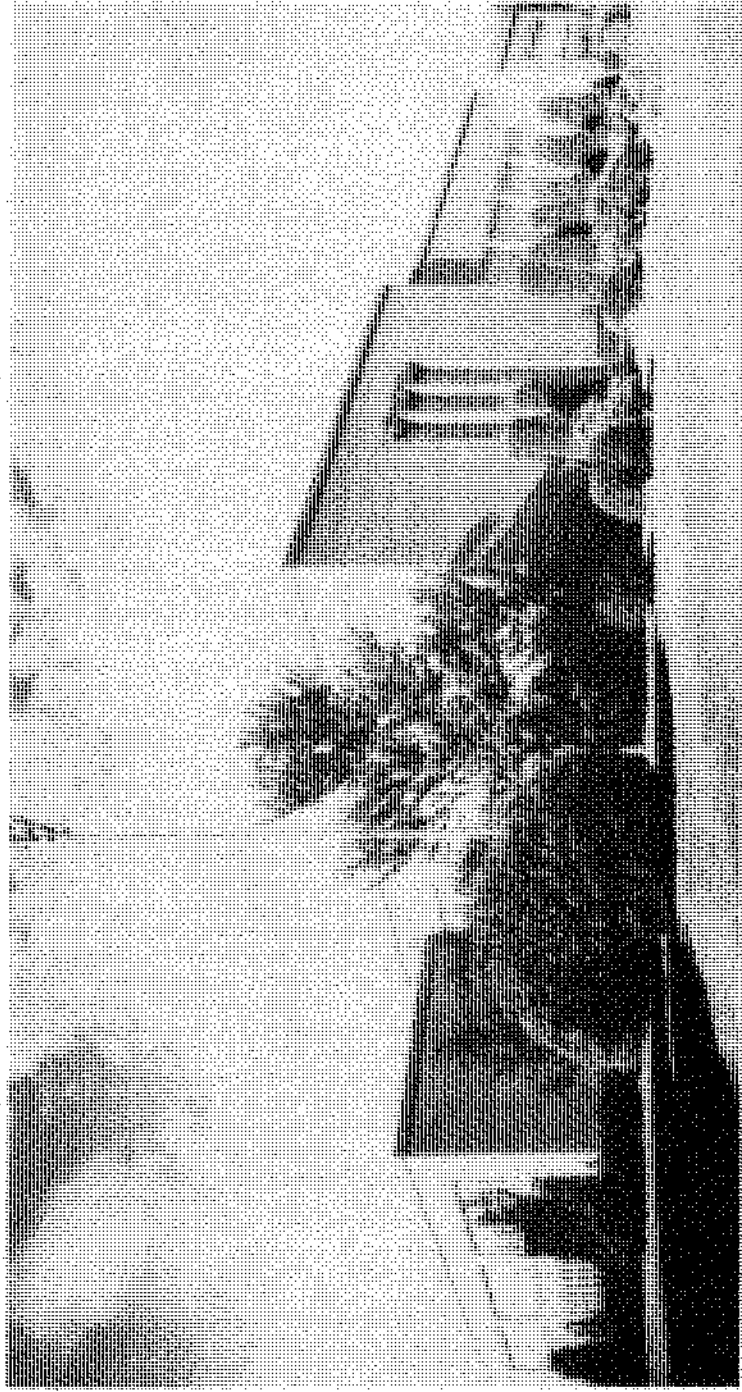
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GRAND JUNCTION
COLORADO

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.

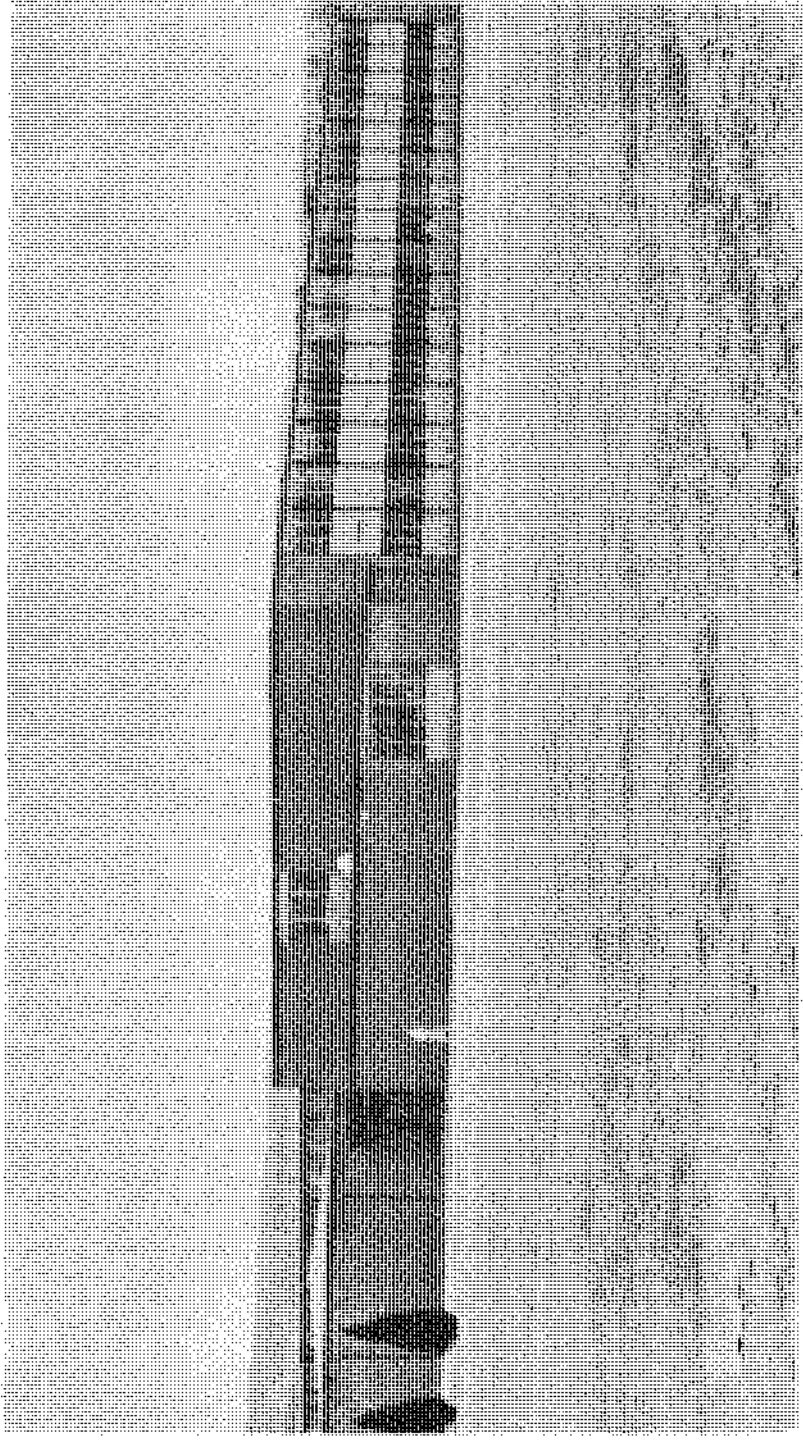
Mesa College is a democratic community institution founded upon the principle that the community should provide education for all its members. It is organized to serve all who are eligible to attend and who can profit from its offerings, regardless of age or experience. It provides a cultural center 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.

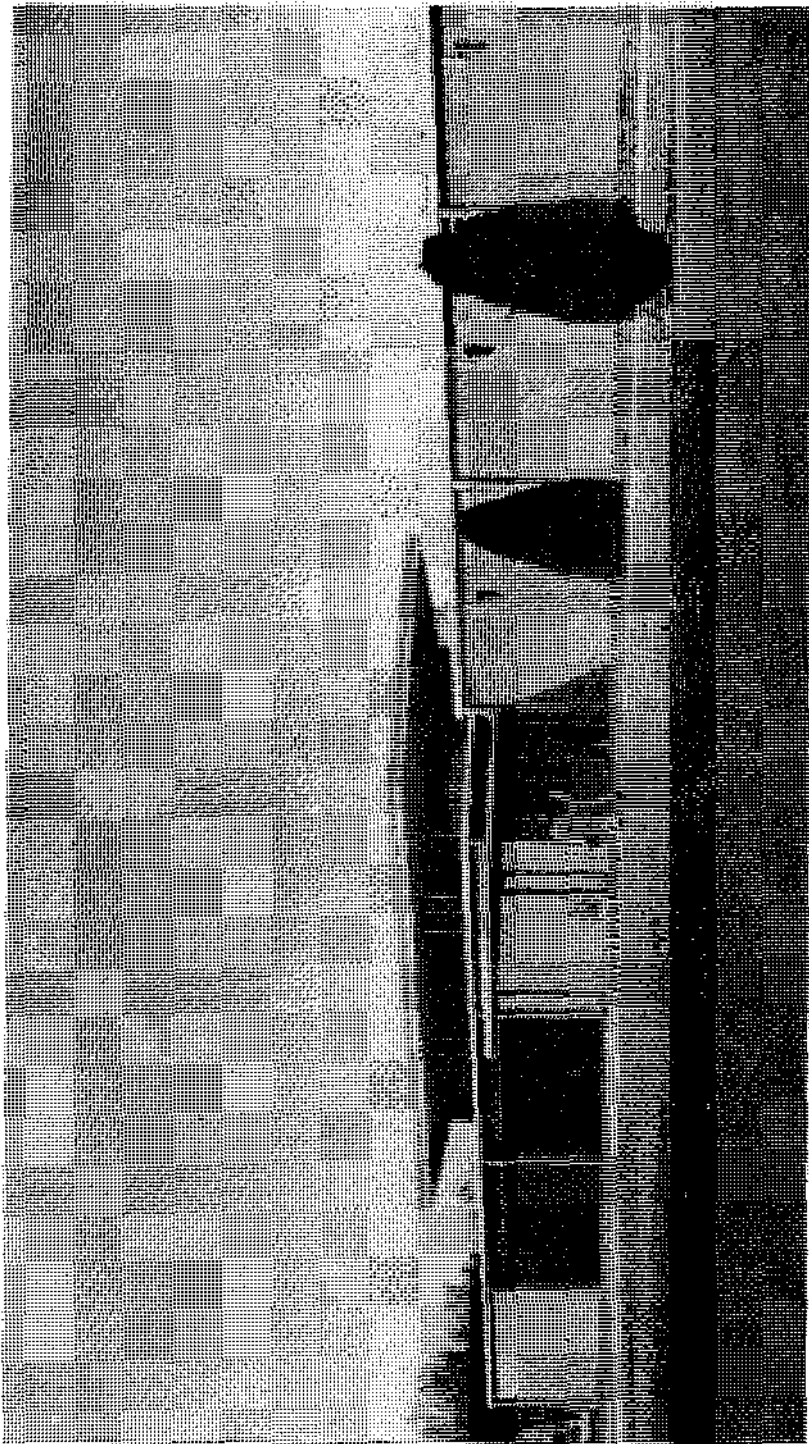
Mesa College is open to high school graduates and all others of sufficient maturity, experience and seriousness of purpose to enable them to benefit from its offerings.



New Science Building — "Horace Wubben Hall"

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New College Center — Mesa College

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.



Mesa College Civic Symphony Orchestra

Personnel

MESA COLLEGE COMMITTEE

Roc F. Saunders, President	Fruita
Claud Smith, Secretary	Grand Junction
Herbert L. Bacon, Treasurer	Grand Junction
Mrs. Clyde Biggs	Grand Junction
Arnold Weiss	Rangely

OFFICERS OF ADMINISTRATION - MESA COLLEGE

Horace J. Wubben	President
B.A., Colorado College	
M.A., University of Colorado	
LL.D., University of Denver	
William A. Medesy	President Elect
B.S., Purdue University	
M.F., Yale University	
M.A., Ed. D., Columbia University	
Kenneth LeMoine	Assistant to the President
B.A., M. Ed., University of Colorado	
Adv. Grad. Study, University of Colorado	
Jay Tolman	Dean of Men
B.S., M.S., Utah State University	
Adv. Grad. Study, University of Colorado, University of Utah	
Caryl LaDuke	Dean of Women
B.A., M. Ed., Colorado State University	
Lowell Heiny	Registrar
B.A., McPherson College	
M.A., Colorado State College	
Ed. D., University of Colorado	

OFFICERS OF ADMINISTRATION - RANGELY COLLEGE

To Be Appointed	Dean
Robert B. Clark	Business Officer and Registrar
B.S., M.S., Kansas State College at Pittsburg	
George B. Young	Superintendent of Buildings & Grounds
B.S., M.E., University of Des Moines	

ACADEMIC DIVISION CHAIRMEN

Alfred Goffredi, B.A., M.A.	Division of Business
Harry Hammer, B.M., M.M., Ed. D.	Division of Fine Arts
Esther Herr, B.A., M.A.	Division of Humanities
Lloyd Jones, B.A., M.A.	Division of Social Science
Wayne Nelson, B.S., M.S.	Division of Physical Education
Herbert Weldon, B.A., M.A.	Division of Science & Mathematics
Eugene W. Endsley, B.A., M.S.	Department of Biology
Melvin McNew, B.A., M.A.	Department of Chemistry
Louise G. Moser, B.A., M.N., R.N.	Director of Nursing Education
Walter E. Wheeler, B.A., M. Ed.	Division of Adult & Vocational Education

DIRECTORS OF COLLEGE SERVICES

Margaret Ann Arbenz	Librarian
B.A., M.A., University of Colorado	
B.S. in L.S., University of Denver	
Winnie LaMunyan	Assistant Librarian
Lewiston State Normal School	
Pauline Messenger	Assistant Librarian
B.A., Bethany College	
M.S., Kansas State Teachers College	

Tilman M. Bishop	Director of Counseling, Guidance and Testing B.A., M.A., Colorado State College Adv. Grad. Study, Colorado State College
Carl H. Close	Maintenance Superintendent
Wallace Dobbins, B.Ed., M.A.	Director of Publications
Roy E. Hannah, B.S.	Supervisor, College Farm
Eugene Hansen	Director of College Center B.A., M.A., Western State College
Bee Randolph	Director of Health Services R.N., St. Luke's School of Nursing
Elouise Severe	Financial Secretary Certificate, Business School, University of Minnesota Certificate, Cedar Rapids Business College

INSTRUCTIONAL PERSONNEL

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
Orville L. Boge	Chemistry, Physical Science B.A., Colorado State College M.A., Colorado State College Adv. Grad. Study, Michigan State University; University of the Pacific
Christine Buechi	French B.A., Caen Teachers' College, Caen, France
James C. Carstens	Business B.A., M.A., Western State College
Mary M. Coleman	Mathematics B.S., Alfred University M.P.S., University of Colorado
John M. Cook	Engineering B.S., E.M., Colorado School of Mines
James C. Davis	Mathematics, Engineering B.A., M.A., Colorado State College Adv. Grad. Study, University of Colorado; Colorado State University
Yolanda J. D'Elia	Nursing B.S., New York University M.S., University of Colorado R.N., Cornell University — New York Hospital School of Nursing
Wallace Dobbins	Journalism, Publications B. Ed., Colorado State University M.A., Western State College
Elaine E. Eddy	Biology 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 Adv. Graduate Certificate, Western State College

- H. Hugh Gibson Business, Accounting
 B.S., M.B.A., University of Denver
 Certified Public Accountant
- William Arch Girdley Geology
 B.S., M.A., Indiana University
- 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, East-
 man 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
- Helen M. Hansen Business
 B.A., State College of Washington
 Adv. Grad. Study, University of Denver; University of California
 at Los Angeles
- James T. Harper Social Science
 B.A., Central Methodist College, Fayette Missouri
 LL.B., University of Colorado
 M.A., University of Colorado
- Kathleen Heidrich English
 B.A., Kansas Wesleyan University
 M.A., University of Denver
 Special Study, University of Colorado
- Esther Herr English Language, Literature
 B.A., State University of Iowa
 M.A., Columbia University
- Mrs. Cheo Humphries Physical Education
 B.S., Education, Indiana University
- Robert L. Johnson English, Speech
 B.A., Western State College
- 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.F., University of Colorado
 M.S., School of Commerce, University of Denver
- Ruth C. Kunkle Home Economics
 B.A., Arizona State University
 Grad. Study, Oregon 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

- Donald A. MacKendrick Social Science
 B.S., Colorado State University
 M.A., University of Colorado
 Adv. Grad. Study, University of Colorado
- Richard I. 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
- Marjorie A. Meyer Nursing
 B.S., Mt. St. Mary College
 M.Ed., Keene Teachers College
 R.N., Sacret Heart Hospital School of Nursing
- Donald E. Meyers
 B.F.A., University of Denver
 M.A., Colorado State College
- Bernadine J. Minion Practical Nursing
 R.N., Colorado Training School, Denver General Hospital
- 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
- 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
- Roberta R. Peck English
 B.A., University of Colorado
 M.A., University of Wyoming
 Adv. Grad. Study, University of Arizona
- Morton Perry Social Science
 B.S., Rutgers University
 M.A., University of Wyoming
 Adv. Grad. Study, Rutgers University; New Brunswick Theological
 Seminary
- Dean N. Phillips Mathematics, Engineering
 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

- 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
 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
- Richard Schlapman Business
 B.S., North Dakota State Teachers College (Dickinson)
 M.A., Colorado State College
- Wilma S. Schumann Practical Nursing
 R.N., Boulder, Colorado Sanitarium and Hospital
- Bertha L. Shaw English
 B.A., University of Iowa
 Grad. Study, Northwestern University, Iowa State University,
 Western State College
- Dan M. Showalter English, Literature
 B.A., Western State College
 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
 Grad. Study, Texas A&M College
- R. Bruce Sutton Science, Mathematics
 B.S., Ohio State University
 Grad. Study, University of Arizona, University of Colorado
- Harry A. Tiemann, Jr. Psychology
 B.A., University of Colorado
 Adv. Grad. Study, University of Colorado
- Mrs. Esther T. Tulley Nursing
 R.N., Swedish Hospital School of Nursing
 B.A., M.A., University of Denver
- Maxine Volpe Business
 B.A., Western State College
 Grad. Study, University of Colorado
 Grad. Study, Colorado State College
- 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	
Grad. Study, Teachers College, Columbia University	
M.Ed., Colorado State University	

SPECIAL MUSIC INSTRUCTORS

Gerald Bailey	Voice
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
Donna Jackson	Piano
Leslie Kittle	Organ, Piano
Allen Porter	Flute
Cloyce B. Stokes	Woodwind Instruments
Marion Summerville	Voice
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 15,000 volumes, for the most part arranged on open shelves. More than 180 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 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

Rangely College, a branch of Mesa College, was established in 1960 and admitted 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. (See pages 78-81.)

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

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

At Mesa College, each student is provided with opportunities for continuous guidance and counseling. This service includes academic, social, vocational and personal counseling.

The guidance program begins when freshmen and transfer students first arrive on the campus. Each student is assigned to a faculty advisor on the basis of his vocational and major subject interest. This person continues as the student's advisor as long as he is in college unless he asks to be transferred to another advisor. During the school year, the advisor helps the student register, basing his assistance on the student's preferences, previous records and standardized test scores. He also discusses with the student the college or vocational choice to be selected when ready to leave Mesa, and will help plan transfer of credits or entrance into a vocation.

Counseling services are available for all students of the college. These services provide an opportunity for students to receive help in determining their abilities, aptitudes and interests. A full time counselor is available for students who are having difficulty in making satisfactory adjustment to college life either personally or socially. Regardless of

the counseling situation, the student is assured of friendly, confidential aid.

Any student needing personal or vocational counseling may see, at any time, the Guidance Counselor, the Dean of Men, the Dean of Women, or other members of the staff who are especially qualified. The Deans, located in the Main Building will aid students with educational, social, financial, housing, employment, and discipline problems.

Representatives from the various four year institutions of higher learning in Colorado are continuously visiting Mesa College students. A close working relationship exists at all times with these institutions.

Representatives from the different branches of the military service frequently visit the campus to offer their counseling service. Mesa College is also a participant of the new two-year NROTC program for Junior College Transfer Students. This is an opportunity leading to a commission as an officer in the Navy or the Marine Corps.

Mesa College 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.

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 covers 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 school year including interim vacation periods.

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 serves 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.

ENROLLMENT

Regular day school enrollment for the Fall Quarter, 1962 consisted of a Freshman class of 768 including 524 men and 244 women; the Sophomore class of 422 including 289 men and 133 women; and 26 additional graduate and special students for a total of 1216 students. The geographical distribution of home towns for these students was as follows: 606 from Mesa County; 533 from Colorado counties other than Mesa; 69 from out of state; and 8 from foreign countries.

In addition, the night school program enrolled 181 part time students taking degree credit courses and 277 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 1674 individuals during the Fall Quarter of 1962.

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 from \$210 to \$250 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. Dormitory rooms are limited and reservations will be assigned in the order in which contracts and deposits are received.

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 College Fees shown in the following paragraphs.

In addition to these fees students who do not qualify as legal Colorado residents will be charged a tuition fee of \$100 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.

TUITION AND FEES

Application Fee (See page 25)	\$10
Colorado Residents	
Tuition	No Charge*
College Fee	\$60 per quarter
(This fee includes matriculation fee, student activity ticket, student publications, laboratory and machines fees, College Center use, health and accident insurance, library and other college services.)	
Out-Of-State Students	
Tuition	\$100 per quarter
College Fee (See above)	60 per quarter
Total	\$160 per quarter

*The college reserves the right to adjust this item for students outside the Mesa College District depending upon the Colorado Supreme Court decision relative to H. B. 360.

PRIVATE AND SPECIAL INSTRUCTIONAL FEES

Where private and special instructional services are required additional charges will be incurred by the student. These fees are payable in advance to the instructors and vary with the types of instruction, individual instructors, and other circumstances.

Private instruction in applied music is available through the college and from instructors approved by the College. Cost of this instruction varies from \$20 to \$50 per quarter for one lesson per week. Other special instructional services available at extra cost include bowling, golf, skiing, etc.

BOARD AND ROOM

Board only (7 day week)	\$160 per quarter
Board and Room	
Men's Dormitory	\$210 per quarter
Mary Rait Hall (Women)	\$210 per quarter
Bel-Air Dormitory (Women)	\$250 per quarter

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 a class fee of \$6 per quarter for each class hour for which they register. 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, and two-thirds of the College fee 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 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 a limited number of 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 fees.

A number of NURSING SCHOLARSHIPS have been made available by interested community groups and individuals for students in the Associated Degree program in nursing. Application forms for these scholarships may be secured from, and should be filed with, the Director of the nursing program.

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

The offices of the Dean of Men and the Dean of Women provide employment information and placement services for students who find it necessary to earn a part of their expenses while attending Mesa College. Applications for such employment may be filed with the appropriate dean by writing in advance, or at any time during or after the registration period. The Director of the Business Division also maintains a placement service for qualified students in that division who are seeking part-time employment, or for graduates who may be seeking full-time employment.

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.



SE 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.



Basketball Class

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.

A \$10 fee must accompany the admission application. This fee will be applied toward the College Registration Fee for those applicants who are approved and subsequently enroll. It will be refunded in the event the applicant is not approved for admission. However, the fee is not refunded for those applicants who are approved for admission but fail to enroll.

Colorado 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 the high school level tests in General Educational Development or, in some cases, 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 students prior to registration at Mesa College. It is recommended that prospective students take these tests during their senior year. Transfer students should contact the registrar sufficiently in advance of registration to make arrangements to take the tests or to have an official report of the scores from a previous administration on file prior to registration. The tests are available at designated centers throughout the state and region on three different dates usually in November, February, and April. Summer testing is available at certain centers.

A \$4 fee must be submitted with a reservation form to the A.C.T. Regional Office 4 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 and Winter Registration for those students who do not take the tests during their senior year. These students will be required to take the tests during the Fall Registration Orientation program or, for the Winter Quarter, one day prior to registration in order that results will be available to students and their advisors during registration. The \$4 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.

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 science or literature, 9 hours; Freshman English, 9 hours; and physical education, 3 hours; to qualify for the MESA COLLEGE DIPLOMA. Additional requirements for an ASSOCIATE DEGREE include the specific course requirements listed on pages 33 and 67 and, in the event that credit hours exceed 93, an overall average of C or better is required on all credit hours attempted.
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

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; WP, withdrawn passing; WF, withdrawn failing; 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 WP for each course in which he is passing at the time of withdrawal, and a grade of WF 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.

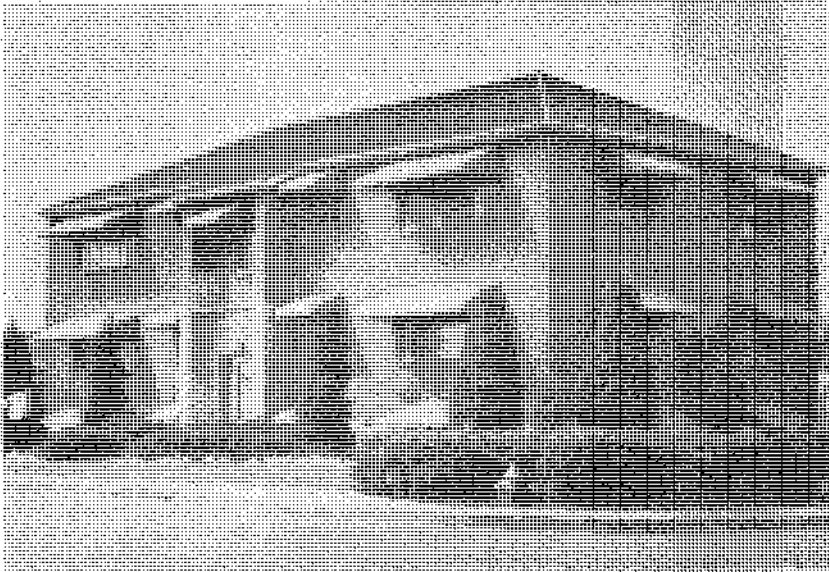
No permission to withdraw will be granted during the last three weeks of a quarter, except in emergencies.

HONORABLE DISMISSAL

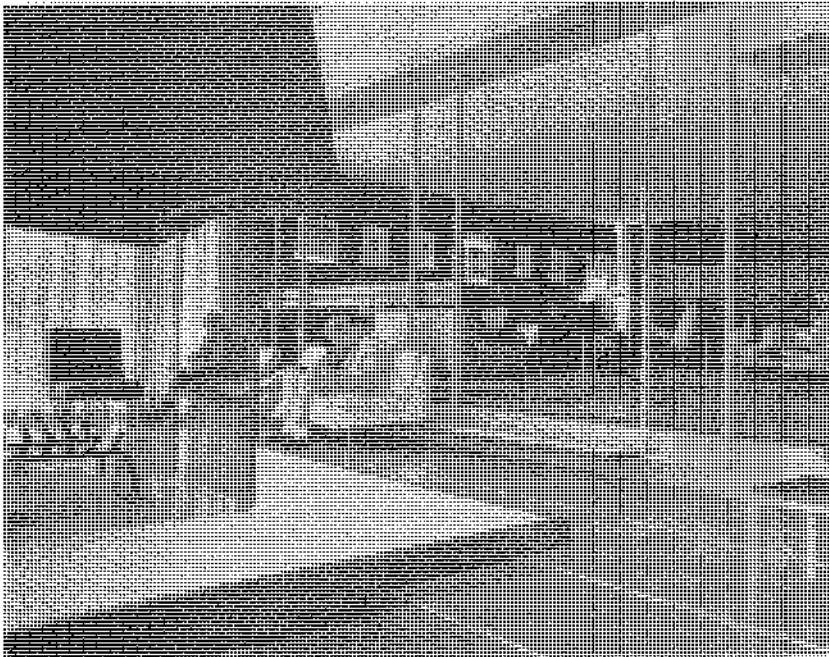
A statement of "honorable dismissal" will be given a student if at the time of withdrawal his status as to conduct, character and scholarship is such as to entitle him to continue in the college.



Mesa College Library



A Unit of Men's Dormitory Complex



College Center Social Lounge

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 qualify as regular students, spend at least one year in residence, meet the general requirements for graduation stated on page 27 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 67 and 68.

#Students majoring in nursing must complete prescribed course of study for that program. Ref. page 40.

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 32	5
English 11	3	English 17	3	English 13	3
Chemistry 21	5	Chemistry 22	5	Chemistry 23 or 33	5
Mathematics 10	3	Mathematics 15	3	Mathematics 20	3
Agriculture 1	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 11	5	Agriculture 42	5	Agriculture 23	6
Biology 21	5	Agriculture 62	3	Agriculture 33	5
English 11	3	English 12	3	English 13	3
Agriculture 1	1	Biology 22	5	Speech 11	3
Physical Education	1	Physical Education	1	Physical Education	1
	15		17		18

*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 61, American Government, World Civilizations, Speech, Literature, Economics. Suggested electives for the Applied Agriculture major: Agriculture 12, Agriculture 56, Mathematics 10, 15, 20; 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 11	3	English 12	3	English 13	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Art 14	3	Art 15	3	Art 16	3
Art 41	3	Art 42	3	Art 43	3
Art 11	2	Art 12	2	Art 13	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 11	3	Science 12	3	Science 13	3
	15		15		15

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

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Chemistry 31	5	Chemistry 32	5	Chemistry 33	5
Mathematics 10 or 14	3	Mathematics 15	3	Biology 32	5
Speech 11	3	Biology 31	5	Mathematics 70	3
Orientation	1	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
Chemistry 51 and 54	5	Chemistry 52 and 55	5	Chemistry 53 and 56	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
	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 11	3	English 12	3	English* 13	3
Mathematics* 14	3	Mathematics 16	3	Mathematics 30	5
Mathematics* 24	2	Mathematics* 26	2	Engr. Drawing 13	3
Engr. Drawing 11	3	Engr. Drawing 12	3	Engr. Problems 23	1
Engr. Problems 21	1	Engr. Problems 22	1	Chemistry 33	5
Chemistry 31	5	Chemistry 32	5	Physical Education	1
Engr. Professions	1	Physical Education	1		
	18		18		18

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

SECOND YEAR*

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 51	5	Mathematics 52	5	Mathematics 53	5
Physics 51	5	Physics 52	5	Physics 53	5
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
English 13 or Elective	3	Statics 62	4	Dynamics 63	4
Physical Education	1				
	17		17		17

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

PHYSICAL SCIENCE OR MATHEMATICS*

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Mathematics 14	3	Mathematics 16	3	Mathematics 30	5
Mathematics 24	2	Mathematics 26	2	Chem. 33 or Geol. 13..	5
Chem. 31 or Geol. 11..	5	Chem. 32 or Geol. 12..	5	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Physical Education	1
Orientation	1	Physical Education	1		
	17		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 51	5	Physics 52	5	Physics 53	5
Mathematics 51	5	Mathematics 52	5	Mathematics 53	5
Chemistry 51, 61, or electives	5	Chemistry 52, 62, or electives	5	Chemistry 53, 63, 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		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Orientation	1	Psychology 22	3	Music 30	2
Music 10	2	Music 26	2	Psychology 23	3
Psychology 21	3	Art 44	2	Speech 11	3
Physical Education	1	Physical Education	1	Physical Education	1
	15		16		17

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		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		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	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 14	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		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Literature	3	Literature	3	Literature	3
Psychology 21	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 11	3	English 12	3	English 13	3
Home Economics 11	2	Home Economics 15	5	Home Economics 16	5
Art 14	3	Art 15	3	Home Economics 32	3
General Biology 11	3	Biology 12	3	Home Economics 36	3
Speech	1	Mathematics 10 or Elective	3	Biology 13	3
Orientation	1				
Physical Education	1				
	16		17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Economics 51	3	Home Economics 52	3	Home Economics 53	3
Psychology 21	3	Psychology 22	3	Biology 53	5
Chemistry 21	5	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Chemistry 22	5	Electives	5
Home Economics 71	3	Home Economics 12	3	Physical Education	1
		Physical Education	1		
	17		18		17

HOMEMAKING (Terminal)

Mesa College Diploma

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Elective	3	Home Economics 15	5	Home Ec. 10 or 16	5
Home Economics 11	2	Home Economics 12	3	Home Economics 36	3
Home Economics 32	3	Art 15	3	Home Economics 24	2
Art 14	3	Elective	2-3	Physical Education	1
Intro. to H. Econ.	1	Physical Education	1	Elective	3
	16		17-18		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Economics 51	3	Home Economics 33	2	Home Economics 35	2
Home Economics 61	3	Home Economics 52	3	Home Economics 53	3
Psychology 21	3	Home Economics 34	3	Economics 43	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Speech 11	3	Elective	3	Sociology 44	3
				Elective	3
	15		17		17

PRE-LAW

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Pol. Sci. 11	3	Pol. Sci. 12	3	Pol. Sci. 13	3
History 11	3	History 12	3	History 13	3
Mathematics 10 or 14	3	Mathematics 15	3	Mathematics 20	3
Biology 11	3	Biology 12	3	Biology 13	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*	5	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 11	3	English 12	3	English 13	3
Chemistry 31	5	Chemistry 32	5	Chemistry 33	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 42	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Elective	7
Chemistry 41	3	Speech 12	3	Speech 13	3
Speech 11	3	Elective	4		
	18		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		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	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				
	<u>18</u>		<u>17</u>		<u>17</u>

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		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 11	3	Science 12	3	Science 13	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
	<u>17</u>		<u>17</u>		<u>17</u>

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

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	3
Biology 14	5	Biology 15	3	Biology 53	5
Psychology 21	3	Psychology 22	3	Psychology 33	3
Orientation	1	Home Economics 12	3	Nursing 13	5
*Nursing 11	3	Nursing 12	4	Physical Education	1
Physical Education	1	Physical Education	1		
	<u>16</u>		<u>17</u>		<u>17</u>

SUMMER — Eight Weeks

Nursing 20 (Psychiatric Nursing) 6 Hours
at Fort Logan Mental Health Center, Denver, Colorado

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Nursing 51	8	Nursing 52	8	Speech 11	3
Sociology 61	3	Sociology 62	3	Nursing 63	5
Electives	3	Electives	3	Nursing 73	2
				Electives	3
	<u>14</u>		<u>14</u>		<u>14</u>

*Each nursing course includes laboratory (clinical experience). For example, Nursing 11 consists of two class hour and one three-hour laboratory per week. The proportion of laboratory to class time increases as the student progresses into the second year.

PRE-OPTOMETRY AND PRE-PHARMACY

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13*	3
Math. 14* and 24*	5	Math. 16 and 26*	5	Mathematics 30	5
Biology 11	3	Biology 12	3	Biology 13	3
Chemistry 31	5	Chemistry 32	5	Chemistry 33	5
Physical Education	1	Physical Education	1	Physical Education	1
Orientation	1				
	18		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 11	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 11	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 11	3	English 12	3	English 13	3
Biology 41 (Hygiene)	3	Elective	3	Biology 13	3
Biology 11	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Soc. Sci. or Lit.	3	Science 12	3	Elective	2
Physical Education	1	Biology 12	3	Science 13	3
Orientation	1	Physical Education	1	Physical Education	1
Science 11	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 14	5	Biology 15	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		16

SOCIAL SCIENCE

Associates in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Pol. Sci. 11	3	Pol. Sci. 12	3	Pol. Sci. 13	3
History 11 or 21	3	History 12 or 22	3	History 13 or 23	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 11	3	Science 12	3	Science 13	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
Fire-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-Vocational



College Center Study Lounge



Art Class

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, (except for Music) the courses numbered from 1 through 9 are remedial in nature and not intended for transfer nor for Associate Degree requirements. Courses numbered from 10 to 50 are designed for freshmen and those numbered above 50, for sophomores. Numbers end in 1, 2, 3, according to the quarter in which they are regularly offered. Some courses, however, are offered two or three quarters during the year so that students may enter at the beginning of any quarter and be able to take a full schedule of work. FWS means fall, winter, spring.

Orientation

1. FRESHMAN ORIENTATION

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.

1. **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.
11. **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.
12. **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.
14. **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 11. Two laboratory periods per week.
23. **CROP PRODUCTION** S. 6 hours.
A study of the principles of field crop production with emphasis on cultural practices and botanical characteristics of crops grown in the intermountain region. Four hours lecture and four hours laboratory per week.
33. **FEED AND FEEDING** S. 5 hours.
Fundamentals of animal nutrition. Feeds and their uses. Calculation of rations to meet livestock requirements.
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.

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 31 and 32, or Chemistry 21 and 22.

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

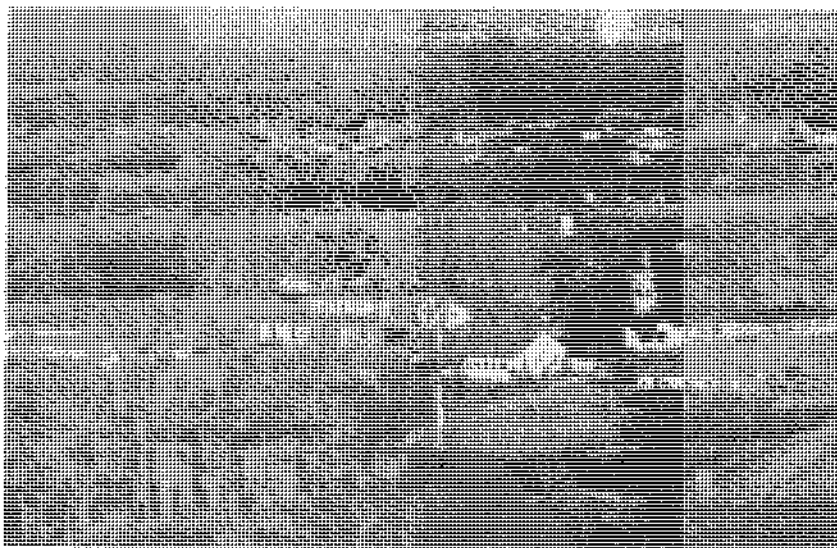
A study of the production and preservation as hay or silage of the principle forage crops and cultivated grasses. Special attention is given to the production and maintenance of farm pastures. Prerequisite: Agriculture 23. Class meets daily.

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 11. Open to sophomore students. Two class periods and one laboratory period per week.

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.



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.

11, 12, 13. 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.

14, 15, 16. COLOR AND DESIGN **FWS. 3 hours.**

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

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.

71, 72, 73. 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. 11, 12, 13 and Art 14, 15, 16.

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

11, 12, 13. 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.

14, 15. 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.

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.

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.

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.
- 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.

English

- 1. READING LABORATORY** **FW. 1 hour.**
 A course in reading improvement open to all students and required for the student whose English placement score indicates a need for special help in reading. Instruction is designed to help the student understand better the nature of the reading process and to help him improve speed, comprehension and vocabulary skills. In practice sessions, he may work at his particular level of ability with a variety of materials. Since emphasis is given to reading for study purposes, many students should find this course a helpful elective. Credit not intended for transfer nor for Associate degree requirements.
- 2. 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.
- 3. READING IMPROVEMENT** **FW. 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.
- 4. 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 Associate degree requirements.
- 11, 12, 13. 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 para-

graph development, on the study and discussion of essays of current interest. A study of functional grammar as related to themes and investigative papers follows. Attention is also given to vocabulary, to critical writing, to the study of the informal essay and of a selected novel. Required of all freshmen.

21, 22. WORD STUDY

F.W. or S. 2 hours.

A course designed to increase the active vocabulary of the student and to give him mastery of words through correlating their spelling, pronunciation, meaning, and usage. 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, 32, 33. INTRODUCTION TO JOURNALISM

FWS. 2-3 hours.

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

51, 52, 53. CREATIVE WRITING

FWS. 3 hours.

The student is directed in practice designed to develop correctness and ease in written expression. Expository writing in the Fall Quarter, with emphasis on the form and content of critical and self analytical themes, is followed by practice in descriptive writing, the personal essay and foundations of fiction in the Winter Quarter; a study of the technique of the short story and narrative composition constitutes the work of the Spring Quarter. Students are advised to plan for at least two of the three quarters, one of which should be the Winter Quarter. Prerequisite: English 11, 12, 13 or English 11 and 12 with permission of instructor.

Literature

31, 32, 33. WORLD 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.

34. MYTHOLOGY

F. 2 hours.

This is a one-quarter course offered to acquaint the student with basic stories of mythology, which have marked the religions of antiquity and which have been quoted so universally that a knowledge of them is essential to literary appreciation. Open to Freshmen and Sophomores. Offered fall quarter and on demand.

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.**

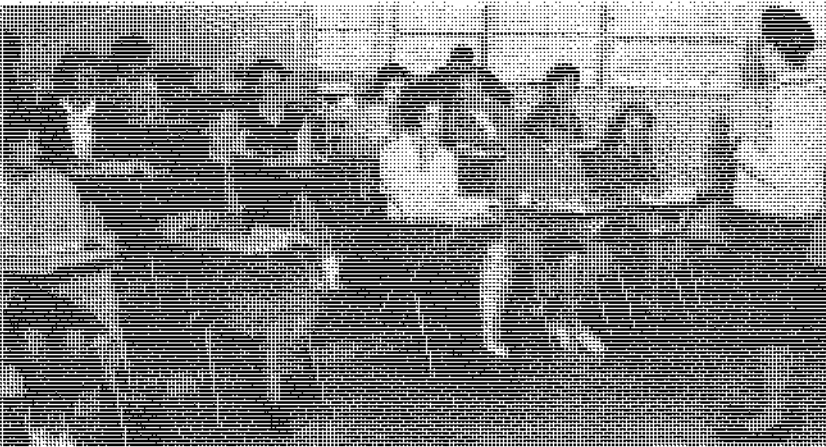
This course is planned to develop the students' understanding and appreciation of English and American poetry. The class analyzes poems as to form and philosophy and later the individual student engages in evaluation of representative poetry. Open to freshmen and sophomores.

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.



Associate Degree Nursing Students Study Anatomy



Science Class in Wabben Hall

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 12.

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 12.

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. INTRODUCTION TO THEATER ARTS**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, 53. DISCUSSION AND DEBATE**FW. 2 hours.**

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

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

11, 12, 13. 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.**

The second year course emphasizes practice in conversation, review of fundamentals, reading of French literature, and advanced composition. Prerequisite: two years of high school French or one year of college French. Open to freshmen who qualify.

GERMAN

11, 12, 13. 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.**

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. Prerequisite: two years high school German or one year college German. Open to freshmen who qualify.

SPANISH**11, 12, 13. 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**1. ORIENTATION (Introduction To Home Economics)** F. 1 hour.
An orientation course for Home Economics majors.**10. CLOTHING** WS. 5 hours.
Basic clothing construction processes applied to the individual. Designed for those not majoring in Home Economics. Two hours lecture, four hours laboratory.**11. COSTUME SELECTION** FS. 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.**15. 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.**16. 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.**24. HOUSEHOLD MARKETING** FS. 2 hours.
Designed to develop intelligent buying practices and skill in making wise choices. Study of legislation affecting the consumer, organization of our marketing system, the influence of advertising, and how these influence our spending habits.**32. HOME MANAGEMENT** FWS. 3 hours.
Study of family-living problems with emphasis on management, child care, personal and family relationship. Three hours lecture.**38. HOUSE PLANNING** W. 2 hours.
A combination lecture and laboratory course which involves the analyzing and evaluating of house plans as well as developing plans which the student can present to an architect when and if he becomes involved in the building of a house.

34. **INTRODUCTION TO CHILD CARE** W. 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** S. 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** 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.
37. **FOOD SELECTION AND PREPARATION (MEN)** F. 2 hours.
A course designed for young men interested in learning the basic principles of food selection with some practice in developing the simple skills of food preparation.
- 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.
53. **PREPARATION AND SERVICE OF MEALS** S. 3 hours.
Planning, preparing and serving family meals.
61. **TAILORING** F. 3 hours.
Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Ec. 13, 15.
64. **BASIC DRESS DESIGN** F. 3 hours.
Basic elements of design in theory and practice. Includes sketching, patterning, and draping, followed by making of garment of original design. Two hours lecture, four hours laboratory. Prerequisite: H. Ec. 10 and 15 or consent of instructor.
71. **CHILD DEVELOPMENT** FS. 3 hours.
Essentials of child psychology. Study of the growth and development of young children, with emphasis on understanding and guidance. Motor skills, intelligence, emotional patterns and social behavior, examined and related to the child's place in our society.

Mathematics and Engineering

MATHEMATICS

1. **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 1.

- 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, and theory of equations. 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; 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 or consent of instructor.

ENGINEERING

1. **ORIENTATION (Engineering Professions)** F. 1 hour.
An orientation course for Engineering Majors.
- 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.
- 21, 22, 23. **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 22 as a prerequisite.
- 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: F 62 and Math 52.

71. 72. SURVEYING AND MAPPING F. W. 3 hours.

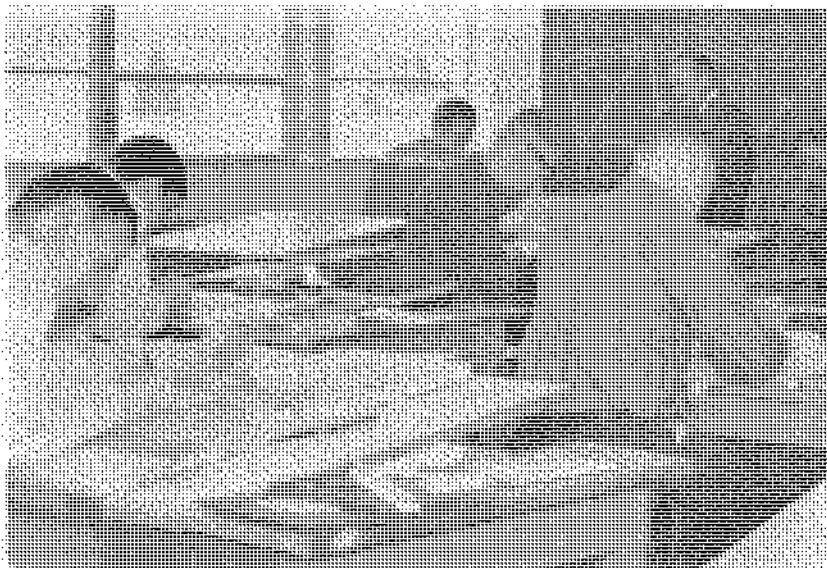
One lecture-recitation period and two laboratory periods per week. The course includes surveying theory, practice, and computations; the use and adjustment of instruments; and the study of land surveying, and field astronomy. Prerequisite: Math 24 and 26.

73. TOPOGRAPHIC SURVEYING S. 3 hours.

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

74. ROUTE SURVEYING S. 3 hours.

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



Engineering Drawing Class

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), brass (Winter Quarter), and bowed strings (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 conducting: Choir (Fall Quarter), Band (Winter Quarter), Orchestra (Spring Quarter).

ENSEMBLE MUSIC

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

- 31, 32, 33. **COLLEGE BAND** FWS. 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. Admission by special permission of the director.
- 47, 48, 49. **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. ½ 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. ½ 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. ½ 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 minimum fee of \$20 per quarter is charged for each lesson per week. Higher fees may be charged by some instructors. 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 "c" 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.
34c, 35c, 36c, 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, initiated in September, 1962. It is approved by the Colorado Board of Nursing. 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. An eight-week course in psychiatric nursing is scheduled for the summer following the first academic year, at the Fort Logan Mental Health Center in Denver.

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.

11. 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.

12, 13, and 52. NURSING OF CHILDREN AND ADULTS
WS, and W; second year 4, 5, and 8 hours.

The student learns to care for patients of all ages, primarily 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. The individual needs — medical, operative, psycho-social, rehabilitative — of each patient, as well as principles learned in the sciences, are considered as the student plans and gives nursing care.

20. PSYCHIATRIC NURSING **Summer. 6 hours.**

Although the concepts of psychiatric and mental health nursing are integrated through the curriculum, eight weeks in the summer of the first year are spent at the Fort Logan Mental Health Center in Denver. This time is 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.

61. MATERNAL AND CHILD HEALTH **F. 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.

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 11, 12, 13, 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 11, 12, 13, 51, 52, 53. PHYSICAL EDUCATION FOR WOMEN**FWS. 1 hour.**

PEW 11 & 51. Fall quarter includes such activities as tennis, volleyball, archery, ping pong, shuffleboard, bowling, and social dancing.

PEW 12 & 52. Winter quarter includes such activities as basketball, volleyball, badminton, tumbling, bowling, skiing, social and modern dancing.

PEW 13 & 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**S. 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 in Webber Hall

Physical Science

11, 12, 13. 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

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.

31, 32, 33. GENERAL CHEMISTRY AND QUALITATIVE ANALYSES 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. Prerequisite: High school chemistry and satisfactory A.C.T. scores; or chemistry 21.

51, 52, 53. **ORGANIC CHEMISTRY** FWS. 3 hours.

Lectures and discussions on the preparation and reactions of aliphatic and aromatic compounds of carbon. Course may be taken with or without accompanying laboratory. Prerequisite: Chemistry 22 or 32.

54, 55, 56. **ORGANIC CHEMISTRY LABORATORY** FWS. 2 hours.

Laboratory exercises to accompany Chemistry 51, 52, 53. Provides experience in the preparation and reactions of aliphatic and aromatic compounds and includes syntheses of simple drugs and dyes.

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 33 and a usable knowledge of logarithms.

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.

GEOLOGY

11. **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 per week. One all-day field trip to observe local geologic features.

12. **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. Four lectures and one 2-hour laboratory period per week. Prerequisite: Geology 11.

13. **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 per week. One all-day field trip to study local stratigraphy. Prerequisite: Geology 11.

PHYSICS

10. **INTRODUCTION TO PHYSICS** G. 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

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.

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.

Social Science

ECONOMICS

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

21, 22, 23. 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 HISTORY**FWS. 3 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

11, 12, 13. 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.

53. PHILOSOPHY OF AMERICAN DEMOCRACY S. 3 hours.

A course which deals with the main political issues in American democracy presented in a philosophical context. Emphasis will be placed on the American Enlightenment, the Jeffersonian and Jacksonian Eras, and more recent developments. Lectures, discussion, and outside reading. Prerequisite: American Government.

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. The two quarters should be taken consecutively and 61 is prerequisite to 62.

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**11. INTRODUCTION TO GEOGRAPHY****F. 3 hours.**

This course is a basic survey of essentials of college geography, including vocabulary, basic principles and techniques.

12. ECONOMIC GEOGRAPHY**W. 3 hours.**

The relationship of geographical factors to economic life of people in various world regions constitutes the emphasis of this course.

13. CULTURAL GEOGRAPHY**S. 3 hours.**

A survey of world regional geography, with attention focused on social and behavioral patterns resulting from environment.

Education And Psychology

EDUCATION**51. INTRODUCTION TO EDUCATION****S. 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.

PSYCHOLOGY**21, 22, 23. GENERAL PSYCHOLOGY****FWS. 3 hours.**

A 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.

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.

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 21 and 22, which is prerequisite.

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. The Associate in Arts degree, the Associate in Commerce degree or the Mesa College Diploma 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.

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 in page 27 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	2 hours

Additional special requirements for those in the Accounting option include:

Accounting (Principles)	9 hours
Business Law	6 hours
Business Correspondence	3 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
Business Correspondence	3 hours

*This requirement may include Home Economics 12, 15, 51, 52, 53, and General Biology for terminal students.

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 Business and work toward the Associate in Arts degree.

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.

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.

General Business

1. **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.
11. **BUSINESS CORRESPONDENCE** FWS. 3 hours.
A study of the essentials of English in business communication. Letters of the business office are criticized, planned, prepared, and discussed. Prerequisite: 6 quarter hours English and a knowledge of typing.
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.
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.
26. **SALESMANSHIP** F. 3 hours.
Selling techniques developed. Psychological factors, initiative, and personality involved in influencing others in business transactions are studied.
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. Financial problems of consumers will be studied.
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

10. **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. Available in night school only.
11. **BEGINNING TYPEWRITING (continuation of SS 10)** WS. 2 hours.
No credit will be given if student has high school credit. Class meets daily. 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 11 or equivalent. Class meets daily.
15. **ADVANCED TYPEWRITING** W. 2 hours.
Study of tabulations, telegrams, and legal forms. Fundamental skills are developed on duplicating machines and transcription machines. Development of speed on varied material rather than straight-copy work. Prerequisite: SS 14. Class meets daily.
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. 14 or enrollment in SS. 14. Class meets daily.
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.
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.
33. **SECRETARIAL PRACTICE** W. 3 hours.
The application of typing and shorthand to office situations. Business dress, business ethics, personality development. Prerequisite: Credit or enrollment in SS. 23 and SS. 14.

Suggested Type Curriculum in Business

BUSINESS ADMINISTRATION

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	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 31	3	Accounting 32	3	Accounting 33	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
Business 11	3	Elective	4	Elective	4
	15		16		16

ACCOUNTING (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Accounting 31	3	Accounting 32	3	Accounting 33	3
Business 1	1	English 12	3	English 13	3
English 11	3	Business 22	2	Business 23	2
Business 41	4	Elective	8	Sec. Science 14	2
Elective	4			Business 11	3
Business 10	2			Elective	3
	17		16		16

ACCOUNTING (18 Months)

Associate in Commerce

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	1	Business 32	3	Sec. Science 14	2
Accounting 31	3	Accounting 32	3	Accounting 33	3
English 11	3	English 12	3	English 13	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
Elective	2	Elective	3	Elective	3
	16-18		17-16		16-15

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Economics 51	3	Economics 52	3	Economics 53	3
Business 51	3	Business 52	3	Speech 11	3
Literature*	3	Literature*	3	Literature*	3
Psychology	3	Psychology	3	Psychology	3
Business 11	3	Accounting 67	3	Accounting 63	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

Suggested Electives: Insurance, Personal Finance and Money Management, General Sociology, Salesmanship, History.

*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 1	1	Business 42	2	Accounting 13	3
English 11	3	English 12	3	English 13	3
Soc. Science 11	2	Soc. Science 12	3	Sec. Science 14	2
Business 10	2	Business 22	2	Speech 11	3
Business 41	4	Elective	7	Business 11	3
Elective	4			Elective	2
	16		16		16

STENOGRAPHIC COURSE (9 Months)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	1	Speech 11	3	Accounting 13	3
English 11	3	English 12	3	English 13	3
Soc. Science 14	2	Business 42	2	Business 23	2
Soc. Science 23	4	Elective	2	Sec. Science 32	4
Business 10	2	Sec. Science 15	2	Business 11	3
Business 41	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 11	3	English 12	3	English 13	3
Sec. Science 21	4	Sec. Science 22	4	Sec. Science 14	2
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Sec. Science 23	4
Business 1	1	Physical Education ..	1	Soc. Sci. or Lit.	3
Business 41	4	Speech 11	3	Physical Education ..	1
		Elective	2	Business 11	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
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physical Education ..	1	Sec. Science 15	2	Sec. Science 33	3
Business 51	3	Sec. Science 31	4	Business 23	2
Business 21	2	Elective	2-4	Accounting 13	3
Elective	2-4			Elective	2
	16		16		16

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

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 1,200 hours of supervised clinical experience are required. Work experience, under the direction of a physician or a registered nurse, is rotated, providing training in the handling of Medical, Surgical, Pediatric, Geriatric, and Obstetrical cases. Some reimbursement is realized by students in connection with the supervised clinical training. The program is offered under the supervision of the Colorado Board of Examiners for the Licensing of Practical Nurses. Classes start 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.*

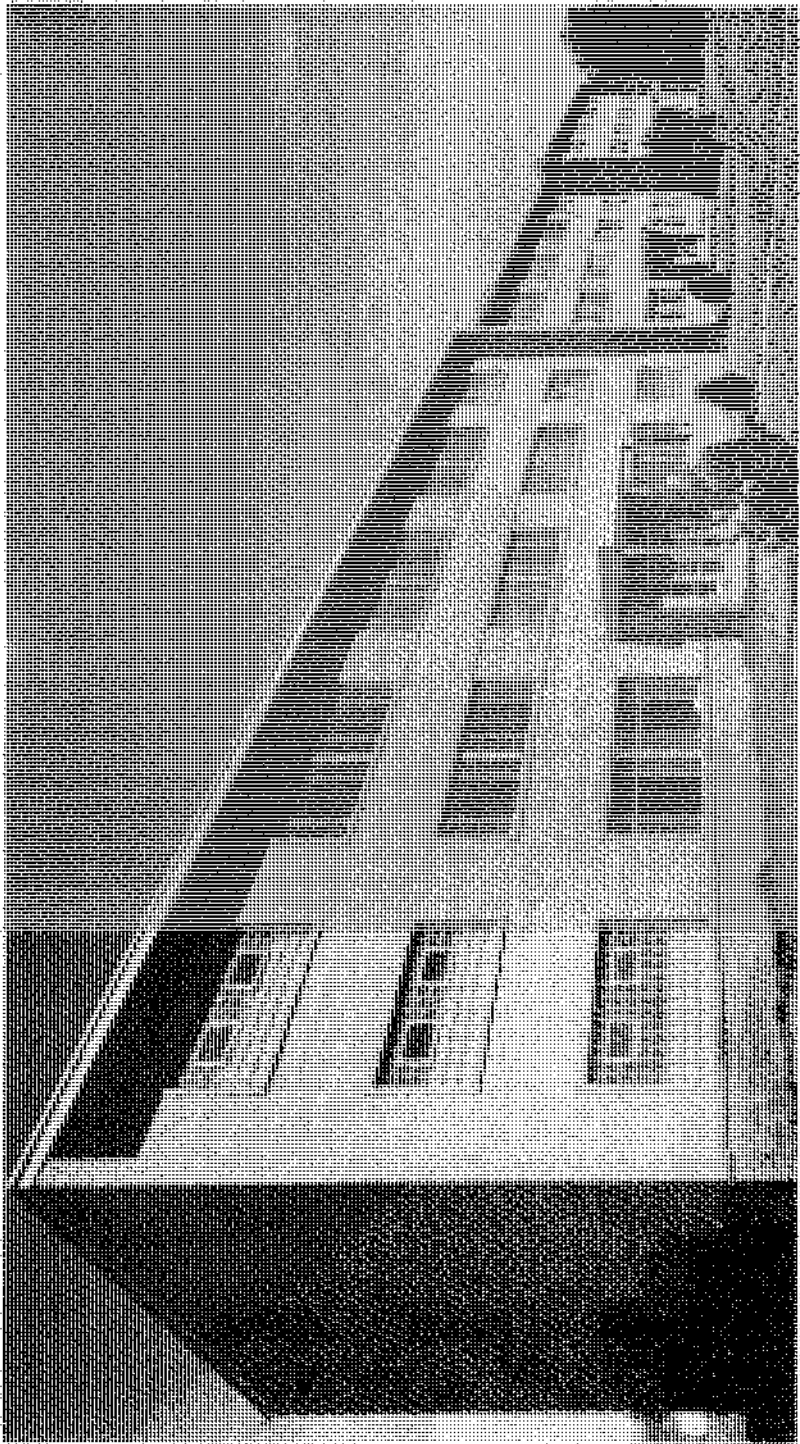
A general course in machine shop practice to prepare the student for employment in machine shop, factories, or related occupations. Blueprint reading, shop mathematics and the operation of engine lathes, milling machines, grinders, drills, etc. in making individual projects and in a production line.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



Hof Hotel, East Hotel, West Hotel, St. Louis, Mo.

SUMMER QUARTER 1963

The summer quarter will begin June 10 and end August 16, 1963. 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

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

ARTS AND SCIENCES

A limited number of courses in general Arts and Sciences may be provided in the summer term if there appears to be a sufficient demand. Usually a minimum of 10 students is required to justify offering courses in these areas. Tentative bulletins on summer school offerings are usually available after May 1.



Cafeteria, Center Inland Sea

RANGELY COLLEGE

OFFICERS OF ADMINISTRATION

William A. Medesy, B.S., M.A., Ed.D.	Dean
Robert B. Clark, B.S., M.S.	Business Officer
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 admitted 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 Mecker approximately 90 miles northwest of Grand Junction. The college grounds are located on a 190 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 190 acres on which are located nine buildings completed in June of 1962. 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 planned for construction in the future.

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 student body 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

82 students were enrolled for the academic year, 1962-1963. The administration is planning for an enrollment of 150 students for 1963-1964. 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	\$300
Room and Board	\$695	\$695	695
College Fee	180	180	180
	<hr/>	<hr/>	<hr/>
	\$875	\$875	\$1175

The room and board cost includes 20 meals per week. The College Fee covers a student activity ticket, library services, student publications, College Center use, health services, laboratory fees, health and accident insurance, and other college services. Books and supplies vary with the student's program and range from \$50.00 to \$90.00 per year.

FINANCIAL AIDS

Rangely College participates 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 is 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.

A \$10 fee must accompany the admission application. This fee will be returned in the event the applicant is not approved for admission. It will be applied toward the College Registration Fee for those applicants who are approved and subsequently enroll. The fee is not refunded for those applicants who are approved for admission but fail to enroll.

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
Arts and Sciences	General Courses
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)
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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**COURSES OF STUDY (CURRICULA) OFFERED BY
COLORADO COMMUNITY JUNIOR COLLEGES**

Courses of Study	Lamar	Mesa	North- eastern	Otero	Rangely	Trinidad
Agriculture	X	X	X	X		
Auto Body Maintenance	X					
Auto Mechanics						X
Building Trades & Carpentry						X
Business Administration	X	X	X	X	X	X
Chemical Technology			X	X		X
Civil Technology		X	X	X		X
Cosmetology	X					
Data Processing Technology				X		
Dental Hygiene					X	
Drafting & Design Technology				X		X
Electronics Technology	X		X		X	X
Fine Arts	X	X	X	X		X
Gunsmithing						X
Liberal Arts	X	X	X	X	X	X
Medical Office Assisting					X	
Police Technology						X
Practical Nursing		X	X			X
Pre-Professional	X	X	X	X	X	X
Radiology Technology					X	
Registered Nursing		X				
Secretarial Science	X	X	X	X		X
Soils Technology				X		
Technical Administrative Assisting					X	

