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MESA  
COLLEGE

GRAND JUNCTION, COLORADO

1965-66

# 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, for Fall Quarter, and two weeks in advance of registration for Winter and Spring Quarters.
3. Upon receipt of your application and the \$10 application fee (see page ...) 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 each applicant will receive additional information and preliminary registration instructions and materials.

## 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 ...))
  - 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.)

Each approved applicant will be provided with the following pre-registration forms: A residence affidavit to be notarized and signed by a parent or legal guardian and filed on or before the Fall Quarter registration date of each academic year (or subsequent registration date for those entering at other quarters); a physical examination report to be completed by a physician and filed at registration time by 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 five different dates, in November, February, April, June and August. 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 four 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 ... for further information.)

# *Mesa College*

## CATALOG



1965

1966



GRAND JUNCTION  
COLORADO

# 1965

## SEPTEMBER

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## DECEMBER

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# 1966

## JANUARY

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## JULY

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## AUGUST

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28	29	30	31			

# College Calendar . . .

## FALL QUARTER, 1965

September 1	New Student Credentials Due
September 13, 1:00 p.m.	District Faculty Workshop Begins
September 15, 12:00 Noon	District Workshop Ends
September 16, 17	Mesa College Faculty Workshop
September 20, 21, 22	Orientation, Registration Counseling and Testing for New and Transfer Students
September 22, (1:00-4:00 p.m.), 23, 24	Registration
September 24, 12:30 p.m.	Classes Begin
September 27, 7:00-9:00 p.m.	Continuing Education Registration
October 6	Last Day to Change Schedule
November 1-3	Mid Term Examinations
November 24, 12:00 Noon	Thanksgiving Vacation Begins
November 29	Classes Resume
December 10	Final Examinations Begin
December 15	Fall Quarter Ends

## WINTER QUARTER, 1966

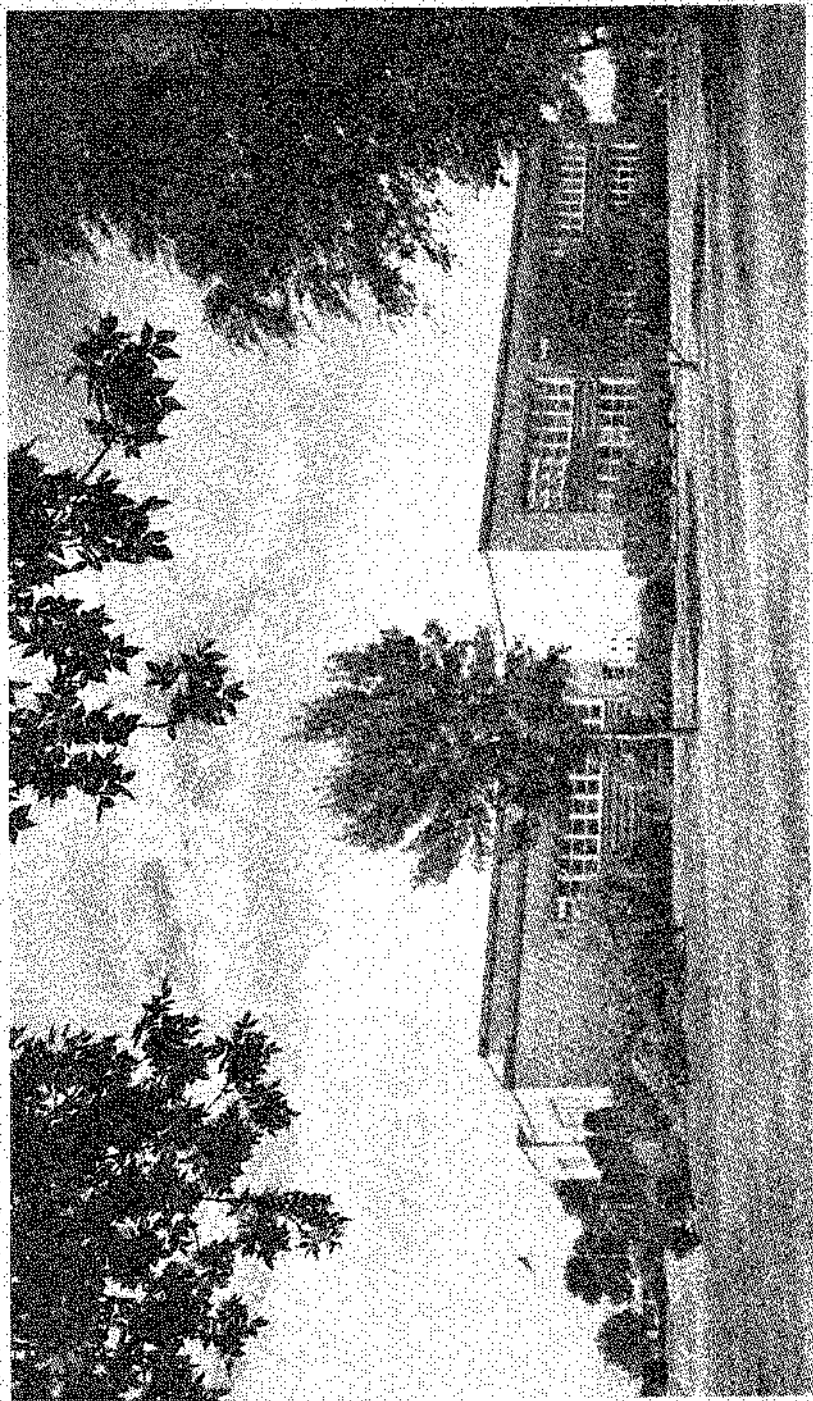
January 3	Registration Begins
January 4, 8:00-11:00 a.m.	Registration Continues
12:30 p.m.	Classes Begin
January 4, 7:00-9:00 p.m.	Continuing Education Registration
January 12	Last Day to Change Schedule
February 7-9	Mid-Term Examinations
March 15	Final Examinations Begin
March 18	Winter Quarter Ends

## SPRING QUARTER, 1966

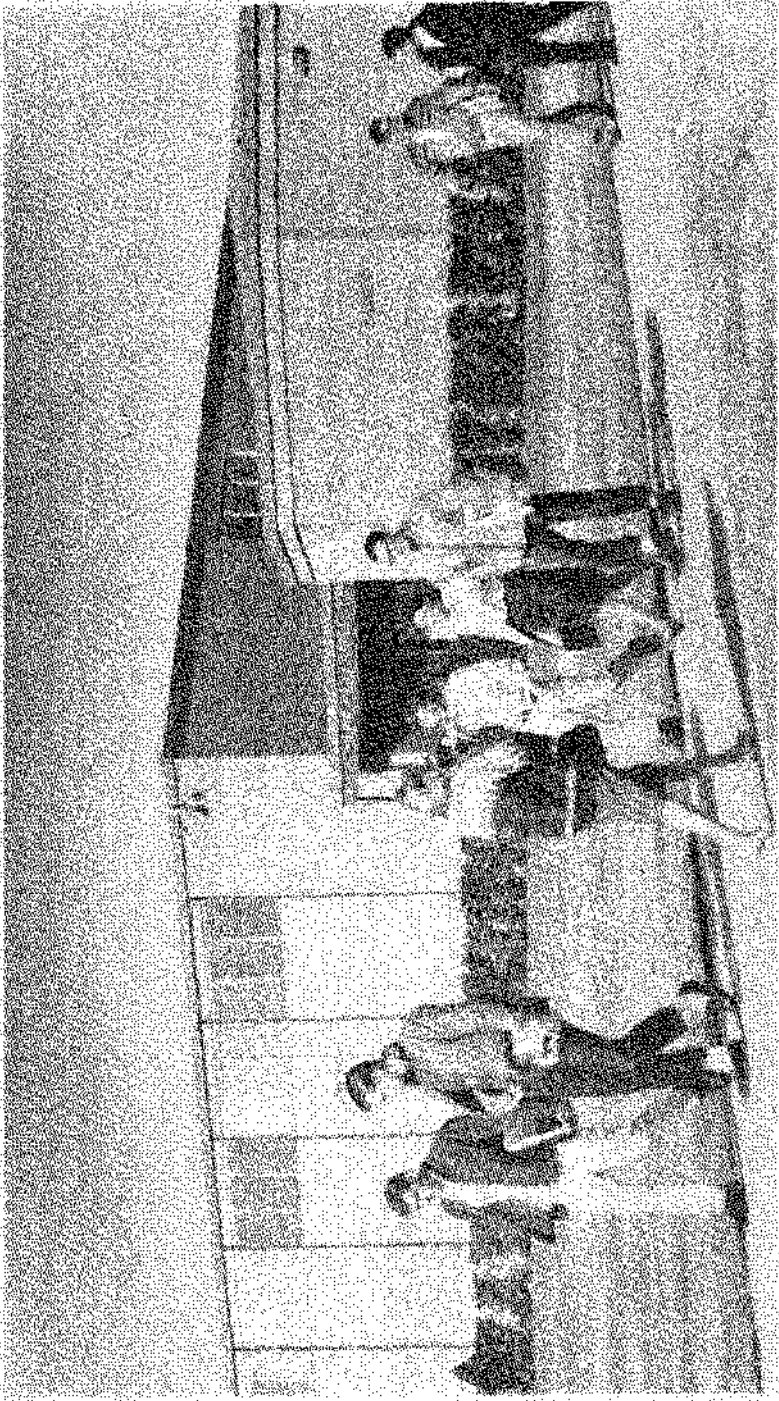
March 24, 7:00-9:00 p.m.	Continuing Education Registration
March 28	Registration Begins
March 29, 8:00-11:00 a.m.	Registration Continues
12:30 p.m.	Classes Begin
April 6	Last Day to Change Schedule
May 2-4	Mid Term Examinations
June 3	Final Examinations Begin
June 10	Commencement

## SUMMER QUARTER

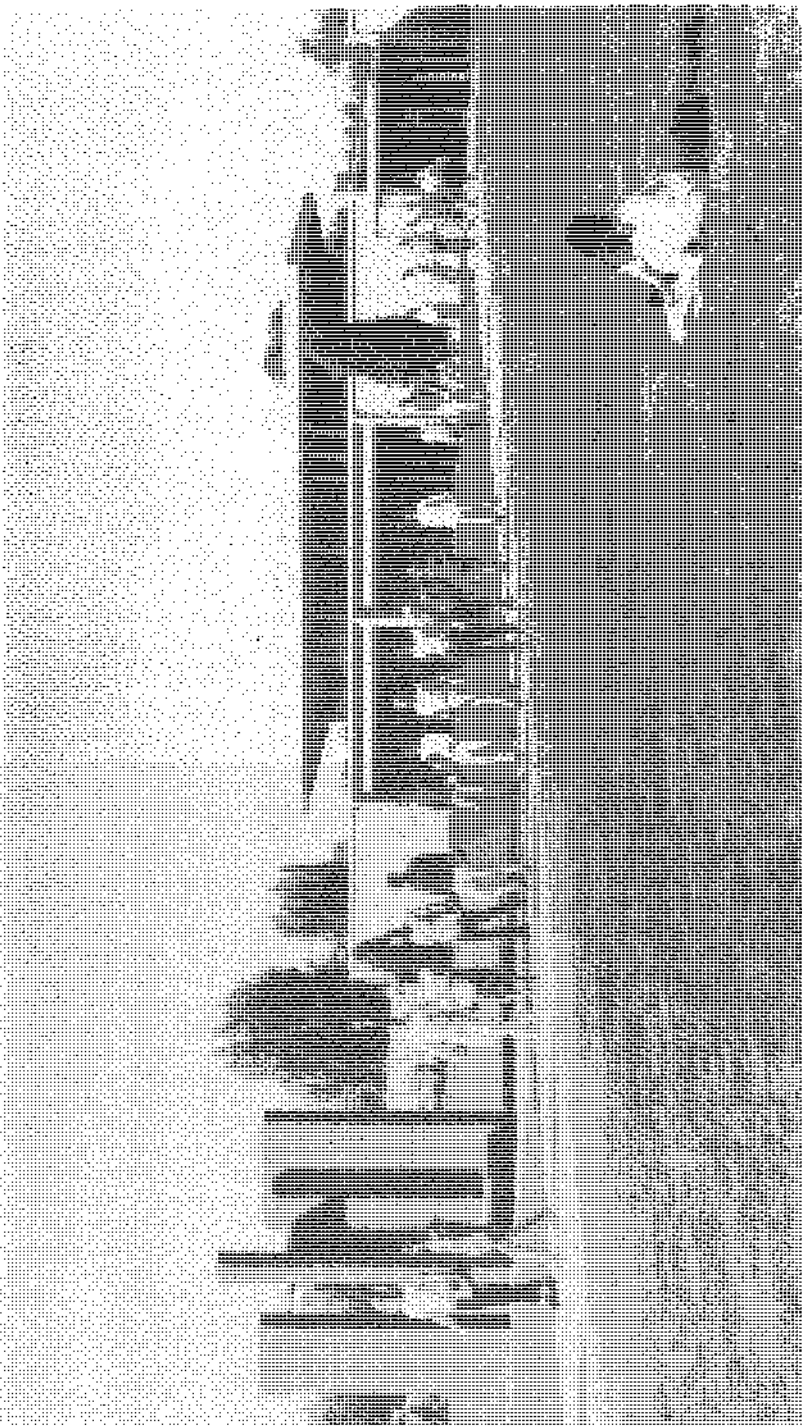
See page 97 for Summer Quarter information



Main Building

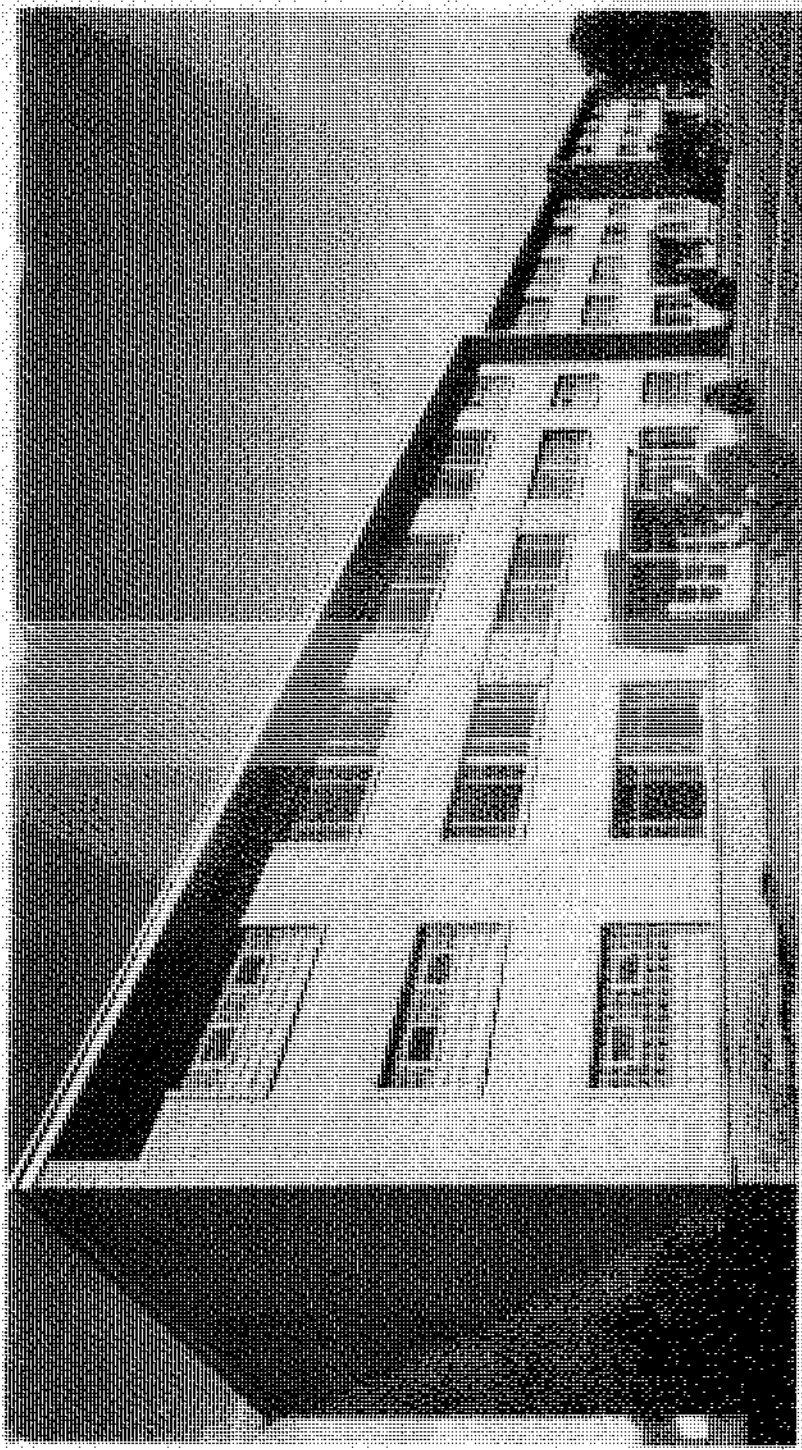


Horace Wubben Hall



Gallery Center





THE UNIVERSITY BUILDING

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# 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.

## FACILITIES, FACULTY, CLIENTELE

Mesa College was founded in 1925. The present 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, and a new College Center Building, occupied in the spring of 1962; Mary Rait Hall, a women's residence hall, and a group of men's dormitory units.

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.

# MESA COLLEGE

## PURPOSE

- 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 and technical training for specific occupations and to offer opportunity to students desiring basic or extension training in several skilled trades.
3. **FOR CONTINUING STUDENTS.** To provide two-year courses of study leading to entrance into the third year class for those who are to continue their formal education in a senior college or university, in liberal arts or the professions.
4. **FOR ADULTS.** To provide opportunities for adults to participate in academic, cultural, recreational and vocational activities according to their needs, interests or desire to learn.
5. **FOR THE COMMUNITY.** To stimulate and lead the intellectual and cultural life of the community; to furnish programs for information and entertainment; to provide a center for participation in recreational activities; and to foster activities leading to civic, social, moral and educational improvement of the community.

## CURRICULUM

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

## Personnel

### MESA JUNIOR COLLEGE DISTRICT COMMITTEE

Roe F. Saunders, President (1965) .....	Fruita
Claud Smith, Secretary (1969) .....	Grand Junction
Herbert L. Bacon, Treasurer (1967) .....	Grand Junction
Mrs. Helen Dufford (1969) .....	Grand Junction
Arnold Weiss (1965) .....	Grand Junction

(Date indicates expiration of six-year term.)

### OFFICERS OF ADMINISTRATION—MESA COLLEGE

William A. Medesy .....	President
B.S., Purdue University	
M.F., Yale University	
M.A., Ed.D., Columbia University	
Lowell Heiny .....	Dean of Faculty
Director, Admissions and Records	
B.A., McPherson College	
M.A., Colorado State College	
Ed.D., University of Colorado	
Kenneth LeMoine .....	Dean of Administration
B.A., M.Ed., University of Colorado	
Jay Tolman .....	Dean of Students
B.S., M.S., Utah State University	
Tilman Bishop .....	Associate Dean of Students
B.A., M.A., Colorado State College	
Esther Tulley, R.N. ....	Associate Dean of Students
Swedish Hospital School of Nursing	
B.A., M.A., University of Denver	
Herbert Weldon .....	Assistant Dean of Faculty
B.A., M.A., Western State College	
Walter Wheeler .....	Director, Continuing Education
B.A., University of Colorado	
M.Ed., Colorado State University	
Don A. Shore, C.P.A. ....	Business Officer
B.S. in Accounting, Kansas State University	

### OFFICERS OF ADMINISTRATION—RANGELY COLLEGE

John E. Roberts .....	President
B.A., Bethany-Peniel College	
M.A., North Texas State University	
Ph.D., University of Denver	
Donald Courtier .....	Business Officer
B.S., University of Colorado	

### DIRECTORS OF COLLEGE SERVICES

Margaret Ann Arbenz .....	Librarian
B.A., M.A., University of Colorado	
B.S., in L.S., University of Denver	
Wallace Dobbins .....	Director of Publications and Public Information
B.Ed., Colorado State University	
M.A., Western State College	
Eugene Hansen .....	Director of College Center
B.A., M.A., Western State College	

Bee Randolph, R.N.	Director of Health Service
St. Luke's School of Nursing	
Daryl Monroe	IBM Supervisor
B.S., Bemidji State College	
Curtis Sweet	Assistant Director College Center.
	Director Audio-Visual Aids
B.A., M.A., Colorado State College	
Carl H. Close	Superintendent of Building and Grounds

**RESIDENCE HALL SUPERVISORS**

Mrs. Wilma Lee and Mrs. Mary Overall	Mary Rait Hall
Mrs. Shirley Gorman	Bel-Air Hall
Clarence Scott	Men's Hall

**ACADEMIC PERSONNEL**

Herman C. Allmaras	Science, Mathematics
B.S., University of Wisconsin	
M.S., Highlands University	
Margaret Beard	Business
B.S., Indiana State College	
Raymond Berett	Music
B.M., University of Denver	
Walter F. Bergman	Physical Education
B.S., M.Ed., Colorado State University	
Frances Best	English
B.A., William Jewell College	
Certificate, Kansas City Business College	
Darrell C. Blackburn	Acting Head, Department of 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	
Clifford Britton	Mathematics
B.A., Adams State College	
M.A., San Diego State College	
Tennie Ann Capps	Business
B.S., Business, University of Oklahoma	
James C. Carstens	Business
B.A., M.A., Western State College	
Blake Chambliss	Engineering Drawing and Mathematics
B.S., University of Colorado	
M.S. in Architecture, Harvard University	
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 Leon Daily	Social Science
B.A., University of Maryland	
M.A., Western State College	
James C. Davis	Mathematics, Engineering
B.A., M.A., Colorado State College	

Yolanda J. D'Elia, R.N.	Nursing
Cornell University—New York Hospital School of Nursing	
B.S., New York University	
M.S., University of Colorado	
Elaine E. Eddy	Biology
B.A., Yankton College	
M.A., Western State College	
Eugene W. Endsley	Biology
B.A., M.S., University of Denver	
Richard Frohock	English
B.A., William Jewell College	
M.A., University of Oregon	
Virginia Fulghum	English
B.A., Western State College	
Alfred Goffredi	Business
B.A., M.A., Western State College of Colorado	
Roy E. Hannah	Agriculture
B.S., Colorado State University	
Helen M. Hansen	Business
B.A., Washington State University	
M.A., University of Denver	
James T. Harper	Social Science, Band
B.A., Central Methodist College	
LL.B., University of Colorado	
M.A., University of Colorado	
Margaret Harper	Business
B.S., Central Methodist College	
Edwin C. Hawkins	Mathematics
B.A., M.A., Colorado State College	
John G. Henson	Mathematics
B.S., Texas Technological College	
Cleo Humphries	Physical Education
B.S., Indiana University	
Robert L. Johnson	English, Speech
B.A., Western State College	
Lloyd Jones	Chairman, Division of Social Science
B.A., M.A., Western State College of Colorado	
Alvin King	Music
B.A., Ohio State University	
B.M., Yale University	
M.M., University of Colorado	
Ruth C. Kunkle	Home Economics
B.A., Arizona State University	
Maurine M. Leighton	Home Economics
B.S., Home Economics Education, Oklahoma State University	
Milton F. Lenc	Chemistry, Physics
B.A., Ohio Wesleyan University	
M.S., Clarkson College of Technology	
Donald A. MacKendrick	Social Science
B.S., Colorado State University	
M.A., University of Colorado	
Daniel MacKendrick	English
B.A., Western State College	
M.A., Western State College	

- Melvin McNew ..... Head, Dept. of Chemistry  
B.A., M.A., Western State College of Colorado
- Pauline Messenger ..... Assistant Librarian  
B.A., Bethany College  
M.S., Kansas State Teachers College
- Donald E. Meyers ..... Art  
B.F.A., University of Denver  
M.A., Colorado State College
- Bernadine J. Minion, R.N. .... Practical Nursing  
Colorado Training School, Denver General Hospital
- Jean Mitchell, R.N. .... Nursing  
B.A., Muskingum College  
Diploma, Johns Hopkins Hospital School of Nursing  
B.S., Johns Hopkins University  
M.A., University of Nebraska
- Daryl Monroe ..... Data Processing  
B.S., Bemidji, State College
- Ethel Mae Moor ..... English, Literature  
B.S., Nebraska Wesleyan University  
M.A., Ohio State University
- Louise G. Moser, R.N. .... Director of Health Programs  
Graduate of Massachusetts General Hospital School of Nursing  
B.A., Wittenberg University  
M.N., University of Washington
- Lloyd Mountain ..... Language  
B.A., University of Colorado
- George Murray ..... Mathematics  
B.S., New Mexico School of Mines
- Wayne Nelson ..... Chairman, Division of Physical Education  
B.S., M.S., Utah State University
- 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
- Morton Perry ..... Social Science  
B.S., Rutgers University  
M.A., University of Wyoming
- Dean V. Phillips ..... Mathematics, Engineering  
B.S., Architectural Engineering, University of Colorado  
B.S., Business, University of Colorado  
M.S., Industrial Engineering, Stanford University
- James B. Phipps ..... Geology  
B.S., Washington State  
M.S., University of Colorado
- William David Pilkenton ..... Language  
B.A., Marshall College  
M.A., University of Michigan
- William E. Putnam ..... Physics, Chemistry  
B.S., Birmingham Southern College  
M.S., Emory University  
Ph.D., Rice University
- Alvie Redden ..... Chairman, Division of Fine Arts  
B.S., West Texas State College  
M.F.A., University of Colorado



- Dan Roberts ..... Social Science, Physical Education  
B.A., Colorado State College  
M.A., Western State College
- Mai Robinson ..... English  
B.S., Minot State Teachers College
- William S. Robinson ..... Speech, Drama  
B.A., Morris Harvey College  
M.A., New York University
- Alice Jeanne Rutan, R.N. .... Laboratory Assistant  
Diploma, St. Peter's General Hospital School of Nursing
- Wilma S. Schumann, R.N. .... Director, Practical Nursing  
Boulder Sanitarium and Hospital
- Clarence A. (Jack) Scott ..... Physical Education, Assistant Director  
Admissions and Records  
B.A., Colorado State College  
M.A., University of Denver
- Bertha J. Shaw ..... English  
B.A., University of Iowa
- Dan M. Showalter ..... Chairman, Division of Humanities  
B.A., Western State College
- Joan M. Sommers, R.N. .... Nursing  
B.S., Ohio State University
- James Squirrel ..... Business  
B.A., Western State College  
M.B.A., University of Denver
- Lawrence E. Standard ..... English  
B.A., Western State College  
M.A., Western State College
- Harry A. Ticmann, Jr. .... Psychology  
B.A., University of Colorado
- Elma C. Tromble ..... Assistant Librarian  
B.A., Kansas Wesleyan University  
M.S., Kansas State Teachers College
- Maxine Volpe ..... English  
B.A., Western State College
- Richard A. Weaver ..... Speech, Drama  
B.F.A., M.F.A., University of Oklahoma
- Herbert Weldon ..... Chairman, Division of Mathematics and Science  
B.A., M.A., Western State College
- Joan Young ..... Biology  
B.A., University of Colorado  
M.A., University of Kansas
- Robert Young ..... Science  
B.S., University of Colorado  
Ph.D., Ohio State University

**APPLIED MUSIC TEACHERS**

Dean Beck	Woodwind
Caryl Berneau	Piano
Frances Best	Organ
Mary Leah Chavies	Piano, String Bass
Anna Rose Cheney	Voice
Ola Cook	Organ
Joe Grantham	Brass
Alice Griggs	Piano
Maebeth Guyton	Voice
Anna Mae Heiny	Piano
Donna Jackson	Piano
Marion Jacobs	Brass
Leslie Kittle	Organ, Piano
Edna Marsh	Organ
Lois Ponsford	Voice, Piano
Allen Porter	Flute
Paul Schneider	Woodwind
Nancy Sammervill	Voice
Marie Treese	Voice
Georgia Ann Watkins	Flute

**EMERITI**

Horace J. Wubben, B.A., M.A., LL.D., President
Mary Rait, B.A., M.A., Vice-President
Elizabeth H. Cramer, B.A., M.A., Speech and Drama
Mattie F. Dorsey, B.A., M.A., Ph.D., Registrar
Esther Herr, B.A., M.A., Humanities
Marie Killheffer, B.A., M.A., English
Laura Smith, B.A., M.A., Foreign Language

## 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 credits 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 classroom building, Mesa College facilities include the new Science Building, Horace Wubben Hall; the new College Center Building; Mary Rait Hall, a women's residence hall; and a men's residence complex.

The main classroom building covers nearly one-half city block in area. It is an attractive two-story structure of modern design and houses administrative offices, class and lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructors' offices. Murr Memorial Library occupies a well-lighted room seating approximately 100 students. The book collection, which grows continuously, numbers approximately 17,500 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, that houses 97 women students. There are 70 private rooms and 27 double/triple rooms. The dormitory has recreation rooms, party kitchen, and a dating lounge on the first floor. Two full-time, trained counselors are in residence and available at all times.

The college also owns a men's housing complex with facilities for 51 men, with a full-time supervisor and counselor in charge.

Shop laboratories for classes in Machine Shop, Auto Mechanics, and Auto Body and Fender Repair, Welding, etc. are available at the Adult Services Building and on a rental basis from the local school district for the use of the Mesa College continuing education 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 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 unit of Mesa College, was established in 1960 and admitted its first class in September of 1962. As a unit of Mesa College the college at Rangely is accredited by the North Central Association of Colleges and Secondary Schools. (See pages 78-81.)

## 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.

## ENROLLMENT

Regular day-school enrollment for the Fall Quarter, 1964, consisted of a Freshman class of 938 including 592 men and 346 women; the Sophomore class of 520 including 374 men and 146 women; and 9 additional graduate and special students for a total of 1467 students. The geographical distribution of home towns for these students was as follows: 709 from the Mesa Junior College District; 688 from Colorado counties other than Mesa Junior College District; 59 from out of state; and 11 from foreign countries.

In addition the night-school program enrolled 275 part-time students taking degree credit courses and 412 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 2154 individuals during the Fall Quarter of 1964.

## *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.

## Student Personnel Services

### COUNSELING AND GUIDANCE

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, one of the Associate Deans of Students, the Dean of Students, 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 of the various four-year institutions of higher learning in Colorado frequently visit 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.

## HOUSING

**Men**—The College owns and operates a men's housing complex on the campus for approximately 50 students with a full-time supervisor in charge. Except for the students who are housed in these accommodations, men students from outside the Grand Junction area are required to live in off-campus housing approved by the College.

Unmarried freshmen under 21 years of age are not allowed to live in apartments. Sophomores may live in apartments only by special permission from the Office of Student Personnel Services.

**Women**—All single women students under age 21 must live in supervised housing (dormitory) unless they live at home or are given permission to live elsewhere to work for part of their room and board.

All board and room jobs for women must be approved by the Director of Student Housing.

Mary Hatt Hall houses 98 women students. There are 70 private rooms and 14 double rooms. It is located on campus. The residence hall has a recreation room, party kitchen, and TV Lounge. Two full-time, trained supervisors are in residence and available at all times.

**General Requirement**—A housing deposit of \$20.00 is required of both men and women students who live in College dormitories. Dormitory rooms are limited and reservations will be assigned in the order in which contracts and deposits are received. When a reservation is cancelled, \$10.00 will be refunded if notification is given at least three weeks prior to the quarter for which accommodations have been reserved, except for Fall Quarter when notification must be furnished by August 15th. If all provisions of the contract have been complied with and no damage charges have been assessed, the \$20.00 deposit will be refunded at the end of the College year. No student is permitted to break this contract during the quarter unless he or she is leaving campus or getting married.

The College reserves the right to alter board and room charges on 30 days' notice prior to the announced date of registration for any quarter.

**Off-Campus Housing**—The Director of Student Housing inspects and approves all student housing located off the campus. The Office of Student Personnel Services provides lists of College-approved off-campus housing and assists students in securing housing off campus. Students requesting information about either College dormitories or off-campus housing should write the Director of Student Housing.

## STUDENT LOANS

Several kinds of loan funds are provided by Mesa College to assist students with their college expenses. Generally, eligibility for a student loan is based on financial need and academic achievement.

Mesa College participates in the National Defense Student Loan and the United Student Aid programs. Both of these programs provide important loan funds from which qualified students can borrow sizeable amounts of money, at low interest, repayable after the student completes his college education.

In addition, the College provides short-term and intermediate-term loan funds from which students may borrow to help meet financial obligations more temporary in nature. By definition, short-term loans are limited to a maximum of \$60.00 repayable within 60 days or by the end of the quarter, whichever comes first. No interest is charged. Intermediate-term loans are repayable within six months or, in any

event, not later than September 1 following the date of the loan. Loans in this category are limited to \$250 with simple interest charged at five per cent.

For the most part, the short-term and intermediate-term loan funds provided by the College were made possible by the generous contributions of individuals and organizations of the Grand Junction area. Principal among these are the following:

The Raleigh B. and Raleigh James Flanders Loan Fund is a fund of \$750.00 available to women students for short-term, small loans. The Business and Professional Women Fund (B&PW) consists of \$1000.00 which is loaned to women students only. It may be used in either large or small amounts. Four per cent interest will be charged. The money may be used for any college expenses that women students might have. It may be loaned for a period of a year, or, in extreme cases, until the student completes her education at Mesa College.

The Ruth Kirkendall Porter Loan Fund in the amount of \$750.00 was established in January 1964 by William H. Porter in honor of Mrs. Porter's parents, Charles and Florence Kirkendall, who were longtime residents of Mesa County. This fund is being used for short-term loans.

The William Campbell Student Loan Fund derived from the earnings of the Campbell Estate is used for student loans. In recent years, this fund has been used to match federal money to provide an adequate National Defense Loan Fund for Mesa College students.

The Eleanor Hansen Memorial Loan Fund of approximately \$1450.00 and the Abe Bolotin Memorial Loan Fund of \$500.00 are special loan funds set up primarily to assist students who are pursuing a course of training in nursing.

The Richard Jones Memorial Loan Fund in the amount of \$560.00 established in 1964 to assist students in the field of music.

The Harry B. Goodwin Scholarship Loan Fund of \$14,350.00 is available, on a revolving basis, to Mesa College graduates who need financial assistance to continue their education. In addition, the Goodwin Foundation recently gave \$1500.00 to augment the College's intermediate-term loan funds.

Several other noteworthy contributions and Memorial funds have been given to the College in recent years for the purpose of providing short-term, revolving student-loan funds. These include the following:

- The Harry A. Kuhnhausen Memorial Fund
- The Clarence A. Harris Memorial Fund
- The Harry Krizman Memorial Fund
- The Lions Club Loan Fund
- The Latin-Anglo Alliance Fund

Several organizations in Grand Junction maintain loan funds from which needy and capable students may obtain loans by presenting satisfactory credentials. Information concerning these funds is available in the Office of Student Personnel Services. All applications for loans from College Student Loan Funds must be made to the Financial Aids Office, Student Personnel Services.

## SCHOLARSHIPS AND GRANTS-IN-AID

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 one or two years and then transferred to one of the four-year institutions, provided 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 GRAND JUNCTION LIONS CLUB provides four scholarships for Mesa College students each year. Present plans call for awarding two \$150 scholarships to high school graduates of Grand Junction High School and Grand Junction Central High School (one to each) for the freshman year at Mesa College. Scholarships are paid on tuition and fees and are renewable the sophomore year if the student's academic achievement at the completion of the freshman year is satisfactory.

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

Scholarships are furnished by individuals and local organizations to a limited number of sophomores who have made high scholastic records at Mesa as freshmen. In addition, each of the academic divisions at Mesa College offers scholarships to outstanding sophomores. These are listed in the Freshman Handbook. Information about them may be obtained from the Financial Aids Director.

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 Financial Aids Director.

The Mesa College Scholarship Development Fund, Inc., conducts drives to raise funds for scholarships and student loan funds, and also serves as a reviewing and clearing agency for many of the College's established scholarships and student loan funds.

The Mesa College Athletic Boosters Club sponsors special events and conducts fund drives to raise money for the athletic training table and athletic grants-in-aid.

## EMPLOYMENT

The Office of Student Personnel Services operates a job placement bureau to assist students who must work part-time to help pay for their college expenses. Applications for such employment should be



obtained from, and filed with, the Office of Student Personnel Services immediately following registration. Students will then be notified as steady part-time jobs become available.

The Chairman of the Division of Business also maintains a placement service for qualified students in that division who are seeking part-time employment, and for graduates who are seeking full-time terminal employment.

Mesa College also participates in the College Work-Study Program provided by the new Federal Economic Opportunity Act. The purpose of the College Work-Study Program is to provide financial assistance for academically qualified students from low-income families which can be combined, as far as feasible, with a loan, scholarship, or grant-in-aid, to the extent necessary to enable the student to meet his educational expenses. Under this program, eligible Mesa College students may expect to work up to fifteen hours per week at a job on the campus which is related to the student's educational objective.

Information concerning the Mesa College Work-Study Program is available at the Office of Student Personnel Services.

### 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.

## *Expenses at Mesa College*

### BOARD AND ROOM

Students living in the dormitories pay \$260 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 \$35 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. No student is permitted to break this contract during the quarter unless he or she is leaving campus or getting married.

The college reserves the right to alter board and room charges on thirty days' notice prior to the announced date of registration for any quarter.

### BOOKS AND SUPPLIES

Text books, notebooks and school supplies are sold at the College Bookstore. Cost of needed supplies will vary according to the courses taken by the student 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 residents of the Mesa Junior College District will be charged a tuition fee of \$40 per quarter, and students who do not qualify as legal residents of Colorado will be charged a tuition fee of \$130 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." A Mesa College District resident shall be defined as a Colorado resident who has been domiciled within the District for not less than 90 days immediately preceding registration. Residence in the state or in the District for the purpose of attending Mesa College or any other institution of higher learning does not apply toward the time required to establish residence for tuition purposes as defined above.

A notarized residence affidavit signed by the parent or legal guardian of each minor student, or by the student, if over 21, is required as a part of registration credentials at the time the student first registers at Mesa College for each academic year.

Application and Evaluation Fee (Non-refundable) ..... \$10

COLORADO RESIDENTS		Mesa College District	Out of District
Tuition .....	No Charge		\$ 40 per Quarter
College Fee .....	\$ 65 per Quarter		\$ 65 per Quarter
Total .....	\$ 65 per Quarter		\$105 per Quarter

(The College Fee paid by all students includes matriculation fee, student activity ticket, student publications, all laboratory and machines fees, health and accident insurance, College Center use, library, and other college services.)

### NON-RESIDENTS

College Fee (See above) .....	\$ 65 per Quarter
Tuition .....	\$130 per Quarter
Total .....	\$195 per Quarter

**BOARD AND ROOM**

Board only (7-day week) .....	\$165 per Quarter
Board and Room .....	
Men's Dormitory .....	\$260 per Quarter
Women's Dormitories .....	\$260 per Quarter

**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.

**EVENING SCHOOL FEES**

Evening class fees vary as to subject, time, and materials required, but usually fees for district residents range from \$20 to \$30 per course and for non-residents range in accordance with the rates listed above for non-resident part-time students.

**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 hour for district residents and \$10 per quarter hour for non-residents. 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.

The college reserves the right to adjust any and all fees and tuition charges at any time deemed necessary by the College Committee.

**REFUNDS****Room and Board, College Dormitories**

Students who voluntarily withdraw from the dorms (or the College) during a quarter are not entitled to any refund on room rent. Refunds on board will be prorated on the basis of the number of weeks

in the quarter, except that no refunds for board will be made to any student who voluntarily withdraws during the last 30 days of a quarter. In addition, refunds on board will not be made unless College Officials have been given 15 days' notice prior to the date of withdrawal.

To confirm a reservation, the student must advance a \$20 deposit. When the reservation is cancelled, \$10 will be refunded if notification is given at least three (3) weeks prior to the quarter for which accommodations have been reserved, except for the Fall Quarter, when notification must be furnished by August 15.

#### **Board at College Cafeteria**

Students who elect the special discount plan of \$165 per quarter are subject to the same refund conditions as are described for students who live in College Dormitories, above.

Students who are requested to withdraw from the College by College authorities, or who have to withdraw because of emergency conditions, normally, will be given refunds for board prorated on the basis of the number of weeks in the quarter.

#### **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.

## *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 field 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.

Other specialized programs of a terminal, technical or semi-professional nature that have been developed recently include a two-year Data Processing curriculum leading to the Associate in Commerce degree and a two-year curriculum leading to the Associate in Science degree and licensure as a Registered Nurse. These programs are open to new students in the Fall Quarter only. Applicants must meet certain specified selective admission requirements and must be approved by a faculty committee organized for this purpose. Additional information and brochures on these two programs are available upon request.

The Medical Office Assistant curriculum is designed to train young women for employment as receptionists and assistants in physicians' and dentists' offices. In addition to being trained for the regular receptionist duties, these young women will be taught to perform routine laboratory tests normally done in these offices.

A program of Continuing 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 through the program.

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.

#### ADVANCED PLACEMENT

The college will recognize unusual secondary school work by means of advanced placement for those who have taken especially enriched or accelerated courses before entering college. Applicants ordinarily qualify for such placement by satisfactory achievement on placement examinations prepared or approved by respective departmental staff members. Further information may be obtained by writing the Registrar.

## 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 evaluation fee must accompany the admission application.

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, 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.

#### OUT-OF-STATE RESIDENTS

Applicants who are not residents of Colorado and who are entering college for the first time must rank in the upper two-thirds of their high school graduating class to be eligible for admission to Mesa College.

#### TRANSFER APPLICANTS

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. (See inside front cover for application procedure.)

Transfer students (Colorado residents) who may be on probation or suspension from the institution previously attended cannot be admitted until they have been approved by the Admissions Committee. In such cases the applicant must address a written petition to this committee describing the circumstances leading up to the probation or suspension status and any significant changes in these circumstances that would indicate that a successful record might be established at Mesa College. No applicant who is on suspension from another institution will be considered for admission to Mesa College until at least one regular academic term has elapsed between the effective date of his suspension and his proposed date of admission. Out-of-state transfer applicants must be in good standing at the collegiate institution most recently attended to be eligible for admission to Mesa College.

#### **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 the ACT test prior to registration unless the test has been taken previously and an official record of the scores are on file with the Registrar. 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 AND RESIDENCE AFFIDAVIT**

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.

Each student is required to file a notarized residence affidavit at the time he first registers at Mesa College for the academic year. This affidavit is to be signed by the parent or legal guardian of each minor student, or by the student, if over 21. These affidavit forms will be provided each student as a part of pre-registration information and material.

#### **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 Law 894 and others.

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 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 five different dates usually in November, February, April, June and August.

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. A special testing fee will be collected from these students at the time they report for testing.

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 seventeen different departments. These are Agriculture, Art, Biological Science, Business, English, Foreign Language, Home Economics, Mathematics and Engineering, Music.

Nursing, Physical Science, Professional Nursing, Physical Education, Related Training, Social Science, Terminal-Technical 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. 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.

### **PREPARATORY COURSES FOR FRESHMEN**

All freshmen who register in the General Arts and Sciences program 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, Nursing** 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.

### **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.



**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 31 and 32 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 within 3 weeks after 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.

**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 31 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 82 and 83

#Students majoring in professional nursing or other technical-terminal programs must complete courses of study as prescribed for the respective programs in addition to the above general graduation requirements.

### 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 11, 12, 13, FWS (fall, winter, spring). To receive transfer credit for this course it is necessary to take all three quarters.

### **SCHOLARSHIP STANDARDS**

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

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

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

### **ACADEMIC PROBATION AND SUSPENSION**

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

### **EXAMINATIONS**

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

### **GRADE REPORTS**

Individual reports are sent to parents, or by request, to individual students who have reached their majority at the end of each quarter. Special reports may be obtained upon application to the Registrar at any time. An official report is withheld, however, until all fees are paid.

## SYSTEM OF GRADES

Grades in Mesa College are indicated as follows: A, for superior work; B, good; C, fair; D, minimum passing; F, not passing; Inc., incomplete; S, satisfactory; U, unsatisfactory; 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 with the appropriate Dean 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.

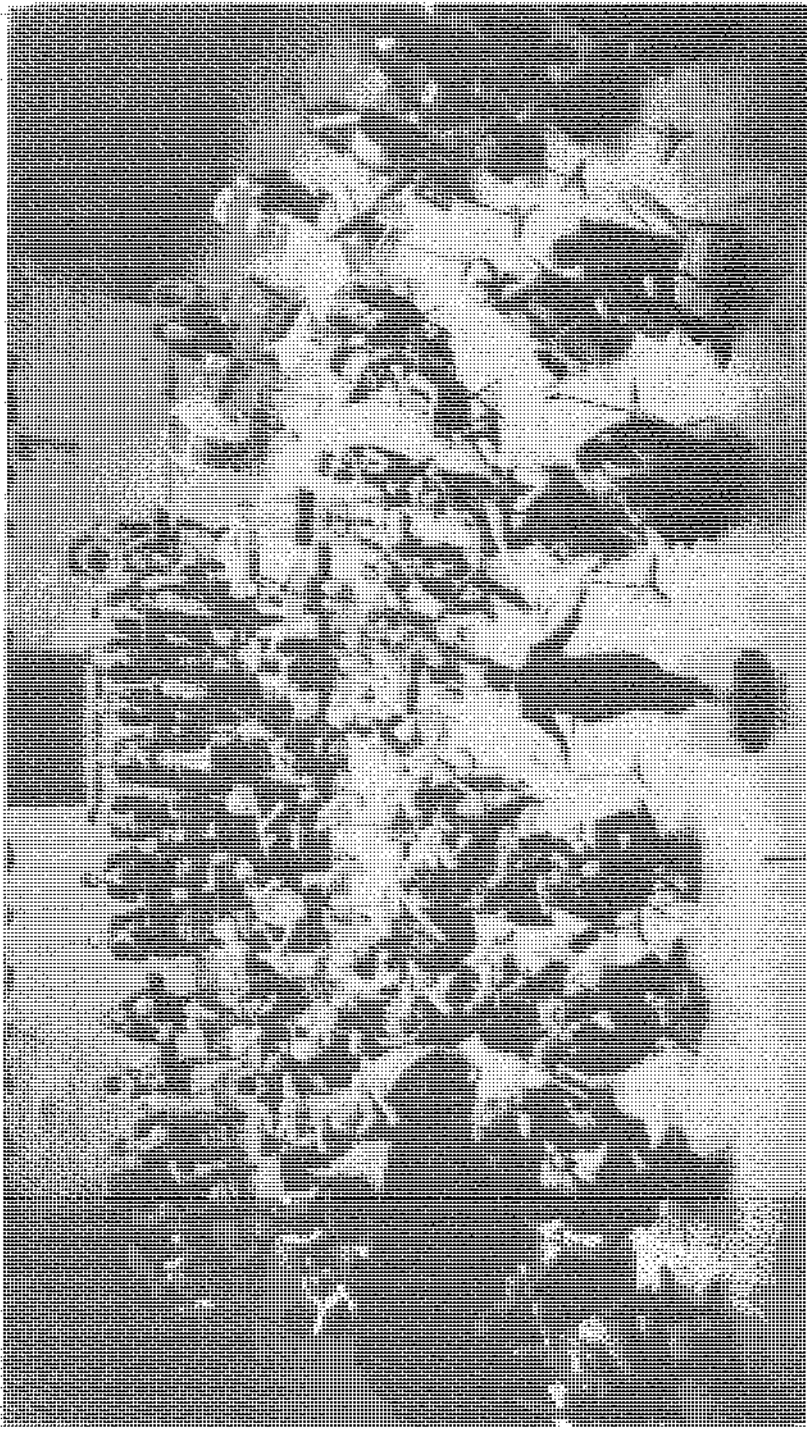


Figure 1. A large, bushy plant with many small, light-colored flowers, possibly a species of Aster or similar.

*Arts and  
Sciences*

# TYPE CURRICULUMS AND COURSE DESCRIPTIONS

The following pages provide suggested curriculums and descriptions of courses available in the various subject matter areas and departments to assist students in planning their courses. The curriculums include both general and special requirements for graduation with the appropriate degree or diploma as indicated. Faculty advisers will assist in selecting courses for other fields which may be desired by students and in accordance with requirements of specific institutions.

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.

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

Each first-time freshman student is required to take the following Orientation course.

### 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.



## GENERAL CURRICULUMS

(Broad programs available to students who have not selected a definite major in one of the specific divisions.)

### GENERAL EDUCATION (Terminal)

#### Associate in Arts

##### FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	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 26 .....	2
Music 24 .....	2	Music 25 .....	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	Hours	Winter Quarter	Hours	Spring Quarter	Hours
History .....	3	History .....	3	History .....	3
Science .....	5	Science .....	5	Psychology 33 .....	3
Elective .....	5	Elective .....	5	Science .....	5
Literature .....	3	Literature .....	3	Elective .....	2
	16		16		15

### GENERAL LIBERAL ARTS (Transfer)

#### 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
Chemistry or Geol. ..	5	Chemistry or Geol. ..	5	Chemistry or Geol. ..	5
Mathematics 10 or 28 ..	3	Mathematics 15 .....	3	Mathematics 20 .....	3
Orientation .....	1	Elective .....	1	Elective .....	1
Physical Education .....	1	Physical Education .....	1	Physical Education .....	1
	15		16		16

##### SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	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 .....	5	Elective .....	3	Elective .....	2
	17		17		16

# Division of Fine Arts

The Division of Fine Arts is composed of the departments of Music, Drama, and Art. These areas of study endeavor to provide courses and instruction primarily for the continued cultural development of students by bringing them in contact with the cultures of the past and present. Such studies invariably define the influence of the arts to intellectual and moral development that contribute to a fuller and nobler life for the individual and for society.

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Instructional Staff: Mr. Redden, Chairman; Mr. Berett; Mr. Blackburn, Acting Head, Department of Music; Mr. Harper; Mr. King; Mr. Meyers; Mr. Robinson; Mr. Weaver

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## 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 15 .....	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 73 .....	3
Science 11 .....	3	Science 12 .....	3	Science 13 .....	3
	15		15		15

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## MUSIC

## Associate in Arts

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Music 14	3	Music 15	3	Music 16	3
Music 17	1	Music 18	1	Music 19	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 24	2	Music 25	2	Music 26	2
Ensemble	1	Ensemble	1	Ensemble	1
Orientation	1	Physical Education	1	Physical Education	1
Physical Education	1				
	18		17		17

## SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21	3	Psychology 22	3	Psychology 23	3
Music 31	3	Music 32	3	Music 33	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
	17		17		17

## 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.  
 Fundamental ideas about form, space and color are studied. Subject matter, meaning, expression and composition are analyzed and explored in assigned problems. In the fall quarter the emphasis is on two-dimensional work with the visual elements in black and white media. During the winter quarter various approaches to two-dimensional composition and color are studied. The third quarter work is with sculptural and functional three-dimensional design in a variety of media.
- 21, 22. ART IN THE HOME** FW. 2 hours.  
 A course designed especially for majors in Home Economics with stress placed on design and color problems in the home and everyday living.
- 31. LETTERING** F. 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.
- 35, 36. PRINTMAKING** WS. 2 credits.  
 Basic silk screen processes are done in the winter quarter. In the spring quarter the work is in monoprinting and relief prints in wood cut and linoleum blocks.
- 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.
- 51. WATERCOLOR PAINTING** F. 2 hours.  
 Emphasis will be placed upon the study of form and composition as the student learns to apply various methods of watercolor rendering. Prerequisite: Art 13.
- 55, 56. INTRODUCTION TO SCULPTURE** WS. 2 hours.  
 A beginning course in sculpture processes. Work is done in carving, modeling and construction. Materials include wood, stone, clay, metal and assemblage materials. Prerequisite: Art 16.
- 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 FWS. 2 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.

## Drama

**17, 18, 19. PLAY PRODUCTION FWS. 1 hour.**

This is a practical course of stage craft concerned with the production of plays presented at the college. The students work in the areas of scenery construction, painting, lighting, make-up, properties. Hours are arranged for laboratory assignments plus one hour a week in class assignment.

**31, 32, 33. HISTORY OF THEATRE FWS. 2 hours.**

A course exploring the historical aspects of the theatre as an institution and showing its relationships to the other arts and to the social environment.

**41, 42, 43. INTRODUCTION TO THEATRE ARTS FWS. 2 hours.**

This course introduces and acquaints the student with the theatre and the presentation of plays. The first quarter places an emphasis on types of plays, drama and the audience and what to look for in viewing a play. The second quarter places an emphasis on beginning acting and stage techniques. The third quarter is an introduction to the directing of plays.

**44, 45, 46. INTRODUCTION TO TECHNICAL THEATRE FWS. 2 hours.**

A three-quarter sequence course designed to meet the basic stagecraft requirements of many four year institutions. The first quarter is concerned with the construction, handling and painting of scenery; the second quarter is an introduction to stage lighting; the third quarter is an introduction to scene design and the importance to the finished production.

## Music

### THEORY, HISTORY, AND EDUCATION

**11, 12, 13. MUSIC APPRECIATION FWS. 2 hours.**

A study of famous composers and compositions. Encourages an interest in concert music. Course designed for non-music majors.

**14, 15, 16. 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.

**17, 18, 19. 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.

**21, 22, 23. INSTRUMENTAL CLASS (Strings) FWS. 1 hour.**

This course provides classroom instruction to beginners in bowed strings.

**24, 25, 26. 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 limited to music majors.

**31, 32, 33. INSTRUMENTAL CLASS (Woodwinds) FWS. 1 hour.**

This course provides classroom instruction to beginners in woodwinds.

**41, 42, 43. INSTRUMENTAL CLASS (Brass) FWS. 1 hour.**

This course provides classroom instruction to beginners in brass instruments.

**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).

**APPLIED MUSIC—ENSEMBLE**

Besides regularly scheduled class meetings, members of ensembles are required to attend special rehearsals and to take part in programs. All applied music courses are open to both freshmen and sophomores.

**20. STAGE BAND FWS. 1½ hour**

Open to all students who are interested in studying and playing the music of the Big Name Bands. Meets Monday and Wednesday Evenings.

**31, 32, 33. COLLEGE STAGE 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.

**37, 38, 39. 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.

**41, 42, 43. SYMPHONY ORCHESTRA FWS. ½ hour.**

The Mea 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.

**44, 45, 46. 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.

**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.

**51, 52, 53. PIANO ACCOMPANYING FWS. ½ hour.**

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

**54, 55, 56. MEN'S CHOIR FWS. 1 hour.**

Open to any male student interested in singing standard and unusual Men's Choir literature. Class voice training is offered. Tryouts are not required.

**57, 58, 59. COMMUNITY CHOIR FW. ½ hour.**

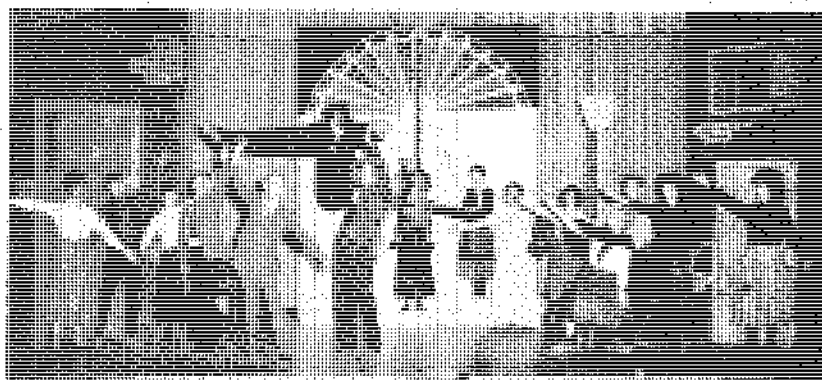
Open to college students and community members; and performs the largest choral works with the community orchestra. Handel's MESSIAH is given once a year. May be taken for credit or non-credit.

## APPLIED MUSIC—INDIVIDUAL LESSONS

Individual music lessons are given in piano, voice, and most of the orchestral and hand instruments. The fee is determined by the instructor. A minimum of \$20 is charged for a series of one lesson a week per quarter. If the student registers with one of the regular Mesa College music instructors, the fee must be paid at the college business office following registration. If the student registers with one of the Special Music Instructors (see p. 25), the fee must be paid directly to that instructor in advance.

The number of hours credit in applied music is to be determined for each student by the music staff. Those who register for one lesson per week may receive one or two hours credit. Music majors may register for two lessons per week to receive four hours credit.

11, 12, 13. VOICE	FWS. 1, 2, 4 hours.
14, 15, 16. PIANO	FWS. 1, 2, 4 hours.
17, 18, 19. ORGAN	FWS. 2 hours.
21, 22, 23. STRING INSTRUMENT	FWS. 2, 4 hours.
24, 25, 26. BRASS INSTRUMENT	FWS. 2, 4 hours.
27, 28, 29. WOODWIND INSTRUMENT	FWS. 1, 2, 4 hours.
34, 35, 36. PERCUSSION	FWS. 1, 2 hours.
61, 62, 63. ACCORDION	FWS. 1, 2, 4 hours.



Drama Students in "My Fair Lady"



# Division of Health Programs

This new division offers programs in Associate Degree Nursing (R.N.), Practical Nursing (L.P.N.), and Medical Office Assisting.

The number of students admitted to each program is limited. Applicants need to be in good health, have satisfactory references, and show aptitude for service in the area chosen. A college committee chooses applicants for admission from those who best meet requirements.

Early application is essential.

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Instructional staff: Miss Moser, Chairman; Miss D'Elia, Mrs. Minion, Miss Mitchell, Mrs. Ryan, Mrs. Schumann, Mrs. Sommers.

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## NURSING (R.N.)

### Associate in Science

#### FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Chemistry 41 .....	3	English 11 .....	3	English 12 .....	3
Biology 14 .....	3	Biology 15 .....	3	Biology 53 .....	3
Psychology 21 .....	3	Psychology 22 .....	3	Psychology 33 .....	3
Orientation .....	1	Home Economics 12 .....	3	Nursing 33 .....	3
Nursing 11 .....	4	Nursing 12 .....	4	Physical Education .....	1
Physical Education .....	1	Physical Education .....	1	Orientation in Psychiatric Nursing .....	1
	—		—		—
	17		17		17

#### SUMMER — Eight Weeks

**Nursing 44 (Psychiatric Nursing) 6 Hours**  
at Fort Logan Mental Health Center, Denver, Colorado

#### SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 13 .....	3	Nursing 52 .....	8	Speech 11 .....	3
Nursing 51 .....	3	Sociology 62 .....	3	Nursing 53 .....	8
Sociology 61 .....	3	Electives .....	3	Nursing 73 .....	3
	—		—	Electives .....	3
	14		14		17

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

## NURSING\*

## Associate in Science

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11 .....	3	English 12 .....	3	English 13 .....	3
Chemistry 21 .....	5	Chemistry 22 .....	5	Psychology 33 .....	3
Psychology 21 .....	3	Psychology 22 .....	3	Psychology 23 .....	5
Sociology 61 .....	3	Sociology 62 .....	5	Sociology 63 .....	3
Physical Education .....	1	Home Economics 12 .....	3	Physical Education .....	1
-----	-----	Physical Education .....	1	Elective .....	3
-----	15	-----	18	-----	16

\*This freshman year curriculum with greater emphasis on basic physical and biological sciences, is suggested for the student who wishes to transfer to a 4-year collegiate program.

## MEDICAL OFFICE ASSISTANT

## Associate in Commerce

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11 .....	3	English 12 .....	3	Biol. 53 (Micro) .....	5
Biol. 14 (Human Anat. & Phys.) .....	5	Biol. 15 .....	3	Psych. 35 (Growth & Develop.) .....	3
Pung 42 .....	2	Typing 14 (Intermediate) .....	3	Reg. Dictation 23 .....	4
Psychology 21 .....	3	Business Mach. 72 .....	2	or stenograph .....	2
Orientation .....	1	Psychology 22 .....	3	Med. Terminology .....	1
Phys. Educ. .....	1	Phys. Educ. .....	1	Phys. Educ. .....	1
-----	15	-----	15	-----	15

## SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Sociology 61 .....	3	Sociology 62 .....	3	English 12 .....	3
Biol. 41 (Hygiene) .....	3	Advanced Typing 13 (Mach. Transcription) .....	3	Sociology 63 (Problems) .....	3
Bus. Corres. 11 .....	3	Lab. Techniques .....	3	Sec'y Acct. 18 .....	3
Chem. 41 (Intro. to Org. & Bio.) .....	3	Secretarial Pract. .....	3	Business 41 .....	1
Laboratory Techniques .....	3	Med. Off. Assisting .....	3	Med. Office Assisting .....	3
Elective .....	2	Elective .....	2	-----	-----
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## Nursing (R.N.)

Initiated in September 1962, this program is fully 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.

Admission is based on a strong high school background, including chemistry. Preference is given to those in the upper half of the high school class, with an ACT composite score above the 35th percentile.

**11. FUNDAMENTALS OF NURSING****F. 4 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. Two class hours; six laboratory hours.

**22. NURSING OF ADULTS****W. 4 hours.**

Learning of basic principles is continued and applied to patients presenting certain medical and surgical conditions and nursing problems. The student learns to give complete nursing care to individual patients. Two class hours; six laboratory hours.

**33. MATERNAL AND CHILD HEALTH****F. 5 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. Two class hours; nine laboratory hours.

**44. 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. Five class hours; 18 laboratory hours.

**51, 52. NURSING OF CHILDREN AND ADULTS****F and W. 8 hours.**

In these courses the student learns to care for patients of all ages presenting increasingly difficult nursing problems. Special emphasis is given to the care of children and to patients with medical-surgical conditions. The total needs of each patient are considered by the student as she plans and gives nursing care based on scientific principles. Three class hours; 15 laboratory hours.

**63. PROBLEMS IN NURSING****S. 8 hours.**

Content is aimed toward meeting needs of students in completing the program. Student cares for patients requiring a variety of nursing measures and a higher degree of knowledge and skill. She becomes acquainted with the role of the nurse on evenings and nights, in public health, with the retarded, etc. Three class hours; 15 laboratory hours.

**73. TRENDS IN NURSING****S. 3 hours.**

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

## *Medical Office Assistant*

Initiated in 1964, the Medical Office Assistant program is designed to prepare workers for employment in physicians' offices, hospitals, clinics, and other health agencies.

In the Spring Quarter of the first year, students who show potential for this field of work are counseled into specialized courses (laboratory techniques, etc.).

The following sequence of courses is recommended. Individual variations may be discussed with the advisor.

**47. MEDICAL TERMINOLOGY** **S. 2 hours.**

This course includes basic medical terminology as applied to major systems of the body and related diseases. It will include special applications as related to medical practice with special emphasis on spelling.

**54, 55. LABORATORY TECHNIQUES** **FW. 3 hours.**

The student learns to perform basic laboratory procedures such as blood counts, urinalysis, EKG, etc. Actual laboratory experiences are provided.

**58, 59. MEDICAL OFFICE ASSISTING** **WS. 3 hours.**

The student learns to deal with patients and their families, to observe, keep records, help with physical examinations, and to assist the physician in many ways.

## *Practical Nursing\**

**31, 32, 33, 34. PRACTICAL NURSING** **FWS Summer. 15 hours.**

A 12-month course designed to prepare qualified women for service in hospitals and other health agencies as licensed practical nurses. Upon completion of the course, the graduate is qualified to take the licensing examination.

The program is approved by the Colorado Board of Licensed Practical Nurse Examiners and by the Colorado State Board for Vocational Education.

Approximately 500 hours of classroom instruction and 1200 hours of supervised experience are provided by college faculty members in the major clinical areas of nursing, primarily at St. Mary's Hospital. The course begins with the fall quarter of each year.

High school graduation or equivalent (G.E.D.) and satisfactory scores on ACT and/or aptitude tests are required for admission.

Supplementary forms and detailed instructions for making application may be secured from the Division of Health Programs.

\*This is a terminal program. Credits do not apply toward the associate degree.

# Division of Humanities

The aims of the Division of Humanities are to promote in students cultural awareness, critical judgment, and facility in the use of language. Students are encouraged to understand, to evaluate, to appreciate, and to participate in the forms of man's expression. With these objectives in view, students should develop enduring values, both aesthetic and utilitarian.

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Instructional staff: Mr. Showalter, Chairman; Mrs. Best, Mr. Frohock, Mrs. Fulghum, Mr. Johnson, Mr. MacKendrick, Miss Moor, Mr. Mountain, Mrs. Peck, Mr. Pilkenton, Mrs. Robinson, Mr. Robinson, Mrs. Show, Mr. Standard, Mrs. Volpe, Mr. Weaver.  
See General Education and General Liberal Arts, Page 39

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## *English*

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

**21, 22. WORD STUDY**

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

**23. WORD STUDY**

S. 2 hours.

A continuation of vocabulary study (English 22 which would be a prerequisite). Study will involve language of the space age as well as other specific areas. Time will be spent on the application of vocabulary to current reading material and to the student's writing.

**31, 32, 33. INTRODUCTION TO JOURNALISM**

FWS. 3 hours.

A survey course in journalism including fundamentals in news and feature writing, 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.

**51, 52, 53. CREATIVE WRITING**

FWS. 3 hours.

The student is directed in practice designed to develop 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 techniques 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.

**35. MYTHOLOGY**

W. 2 hours.

This is a one-quarter course in Norse, Oriental, and Medieval Mythology. It aims to acquaint the student with the early cultures of other races as well as some of the famous stories of medieval Europe upon which many of our masterpieces of literature are based. Open to freshmen and sophomores. Offered WINTER QUARTER and on demand.

**35. MYTHOLOGY** W. 2 hours.

This is a one-quarter course offered to acquaint the student with basic stories of Greek and Roman Mythology 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.

This is a one-quarter course in Norse, Oriental, and Medieval Mythology. It aims to acquaint the student with the early cultures of other races as well as some of the famous stories of medieval Europe upon which many of our masterpieces of literature are based. Open to freshmen and sophomores. Offered Winter Quarter and on demand.

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

This study of novels by American, English and European authors of the nineteenth and twentieth centuries aims to broaden the student's knowledge of the world's best fiction and to acquaint the student with critical techniques in order that the student may form a bases for independent evaluation.

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.

A short survey course in the development of dramatic literature beginning with the classic plays of the Greeks and continuing to the present-day theatrical writings. Open to freshmen and sophomores.

**Lit. 44. BIOGRAPHY** 3 hours.

Representative writings in biography, autobiography, and biographical fiction serve to acquaint the student with the development and place in literature of these three literary types. The course aims to develop in the student some critical appreciation of biography as an art form. 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.

## PHILOSOPHY

### 51. INTRODUCTION TO PHILOSOPHY F., W. or S. 3 hours.

A study of the basic teachings of the great philosophers of the Western tradition, particularly in ethics. 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. An inquiry into modern philosophical issues will be made.

## *Reading*

### 1. READING LABORATORY FWS. 1 hour.

This course is recommended for all freshmen whose reading test scores indicate deficiency. Emphasis is placed on vocabulary and comprehension. The class meets twice a week for one hour, is open to all students and is helpful for those who have been out of school for some time. Credit is not intended for transfer nor for associate degree requirements.

### 2. READING SKILLS WS. 1 hour.

This is a continuation of Reading Laboratory and is planned for students who have not attained college requisite reading ability. Credit is not intended for transfer nor for associate degree requirements.

### 13. READING IMPROVEMENT FWS. 1 hour.

This developmental reading course is for the average reader who wishes to increase his efficiency. Vocabulary, comprehension and speed are stressed. Prerequisite: Reading Laboratory or acceptable reading test score.

### 14. ADVANCED READING IMPROVEMENT WS. 1 hour.

This course is for the above average reader who wishes to increase speed and precision in reading. Prerequisite: Reading 3 or permission of instructor.

## *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**

F., W. or 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, 25. 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. Radio programs and spots are presented over local radio stations.

**27, 28. DEBATE**

FW. 2 hours

A 2 quarter course for the beginning student in the fundamental methods of debate. The organization and conduct of debate procedures, plus practice debates or practical experience will be offered in this introductory course.

**29. PARLIAMENTARY PROCEDURE**

S. 2 hours.

A one quarter course teaching the fundamentals of Parliamentary Procedure for the orderly conducting of meetings, as related to a modern democratic society.

**51, 52. DEBATE**

FW. 2 hours.

A continuation of Speech 27, 28 with a major emphasis on intercollegiate debating.

**53. DISCUSSION**

S. 2 hours.

This course is primarily designed to teach the student fundamentals and techniques of problem solving through cooperative group discussion efforts.

## *Foreign Language*

Students who have had a foreign language in high school should check with the instructor regarding placement. 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. Students work individually in their respective languages by imitating the language of native speakers on specially prepared tapes on which the student also records his own voice for practice in speaking and for comparison with that of the native.

## FRENCH

**11, 12, 13. FIRST-YEAR FRENCH FWS. 5 hours.**

This course is an introduction to French through an audio-lingual and conversational approach. All four language skills are developed, beginning with listening and speaking, then reading and writing. From the beginning, emphasis is on oral use of the language, with close attention given to pronunciation. While continuing the oral use of the language, the student develops ability to read short literary selections and newspaper articles.

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

This second-year course emphasizes practice in the oral use of French through conversation and discussion, while reviewing the essentials of pronunciation, grammatical structure, and clear expression through word study exercises in both oral and written work. Reading skill progresses by reading a new text on the France of today and then by reading French literature; writing skill progresses by writing both imitative and free compositions. 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.**

This course reviews the main essentials and includes the reading of representative works of German literature, and a continuation of the study of conversation and composition. 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.

# Division of Physical Education

The Division of Physical Education provides 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.

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Instructional Staff: Mr. Nelson, Chairman; Mr. Bergman; Mr. Davis; Mrs. Humphries; Mr. Roberts; Mr. Srett.

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## 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
Physical Education 42 ..	3	Biology 41 .....	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	Physical Education 43 ..	3
Physical Education ....	1	Biology 12 .....	3	Science 13 .....	3
Orientation .....	1	Physical Education ...	4	Physical Education ...	1
Science 11 .....	3				
	17		15		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 51 .....	3
Soc. Sci. or Lit. ....	3	Sociology 52 .....	2	Sociology 63 .....	2
Elective .....	5	Soc. Sci. or Lit. ....	3	Soc. Sci. or Lit. ....	3
		Elective .....	5	Elective .....	5
	16		16		16

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## *Physical Education*

### **PEM 11, 12, 13. 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. PHYSICAL EDUCATION FOR WOMEN FWS. 1 hour.**

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

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

PEW 13. Spring quarter includes such activities as softball, golf, archery, tennis, bowling, social dancing, and modern dance.

### **20. FIRST AID AND DISASTER PLANNING W. 3 hours.**

The student learns to give first aid, to meet emergencies, and to participate in community disaster planning. The American National Red Cross Standard and Advanced First Aid course content is included. An ARC certificate is issued.

### **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. OFFICIATION 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.

# Division of Science and Mathematics

It is the function of the Division of Science and Mathematics to offer those courses that will serve as

- 1) foundation courses in general education for those students who will take a minimum program in mathematics and the sciences.
- 2) the basic courses in the professional curricula of mathematics, the sciences, and allied disciplines.
- 3) a basis for vocational training in mathematics or science for students who will terminate their education at the junior college level.

Included in this division are all courses offered in the areas of agriculture, biological sciences, chemistry, engineering, geology, home economics, mathematics, and physics.

Instructional Staff: Mr. Weldon, Chairman; Mrs. Allmaras; Mr. Boge; Mr. Britton; Mr. Chambliss; Miss Coleman; Mr. Cook; Mr. Davis; Mrs. Eddy; Mr. Endsley, Head, Department of Biology; Mr. Hannah; Mr. Hawkins; Mr. Heason; Mrs. Kunkle; Mrs. Leighton; Mr. Leuc; Mr. Murray; Mr. McNew, Head, Department of Chemistry; Mr. Phillips; Mr. Plapp; Mr. Putnam; Mr. Young; Mrs. Young.

## 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 23 .....	5
English 11 .....	3	English 12 .....	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 31).

**BIOLOGICAL SCIENCES****First Year**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
(Chem 31 .....	5	(Chem 32 .....	5	(Chem 33 .....	5
(Biol 13 .....	3	(Biol 12 .....	3	(Biol 13 .....	3
or		or		or	
(Biol 31 .....	5	(Biol 22 .....	5	(Biol 23 .....	5
(Elective .....	5	(Biol 31 .....	5	(Biol 32 .....	5
Math 10 .....	3	Math 15 .....	3	Math 20 .....	3
Engl 11 .....	3	Engl 12 .....	3	Engl 13 .....	3
Orientation .....	1	P.E. ....	1	P.E. ....	1
	15-17		15-17		15-17

**Second Year**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Soc Sci or Lit .....	3	Soc Sci or Lit .....	3	Soc Sci or Lit .....	3
Biol 51 .....	5	Biol 52 .....	3	Biol 53 .....	5
Elective .....		Elective .....		Elective .....	
or		or		or	
Chem 31 .....	5	Chem 32 .....	5	Chem 23 .....	5
Elective .....	2	Elective .....	5	Elective .....	2
P.E. ....	1				
	16		16		15

## CHEMISTRY

## Associate in Science

## FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	3
Chemistry 31	5	Chemistry 32	5	Chemistry 33	5
Mathematics 28	5	Mathematics 29	5	Mathematics 30	5
History 11	3	History 12	3	History 13	3
Orientation	1	Physical Education	1	Physical Education	1
	17		17		17

## SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Chemistry 51	3	Chemistry 52	3	Chemistry 53	3
Chemistry 54	2	Chemistry 55	2	Chemistry 56	2
Mathematics 51	5	Mathematics 52	5	Mathematics 53	5
Physics 51	5	Physics 52	5	Physics 53	5
Physical Education	1	Elective	2	Elective	2
	16		17		17

## PRE-DENTISTRY

## Associate in Science

## FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
English 11	3	English 12	3	English 13	3
Chemistry 31	5	Chemistry 32	5	Chemistry 33	5
Mathematics 10 or 28	3	Mathematics 15	3	Biology 32	5
Speech 11	3	Biology 31	3	Mathematics 20	3
Orientation	1	Physical Education	1	Physical Education	1
Physical Education	1				
	16		17		17

## SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Physics 41	5	Physics 42	5	Physics 43	5
Chem 51 or 54	5	Chem 52 & 55	5	Chem 53 & 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 Educ.	1	Physical Educ.	1	Physical Education	1
	17		17		17

**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 28 .....	5	Mathematics 29 .....	5	Mathematics 30 .....	5
Chemistry 31 .....	5	Chemistry 32 .....	5	Chemistry 33 (or 51) .....	5
Engineering 11 .....	3	Engineering 12 .....	3	Engineering 13 .....	3
Engineering 21 .....	1	Engineering 22 .....	1	Physical Education .....	1
	---	Physical Education .....	1		---
	17		18		17

Students with weak backgrounds or a desire to start at a lower level should make some or all of the following substitutions Fall Quarter: Chemistry 21 in place of Chemistry 31; Math 10 or Math 1 in place of Math 28; English 4 and English 1 in place of English 11.

Students eligible for advanced placement or accelerated programs may take Math 29 in place of Math 28 and may take Engineering 12 in place of Engineering 11.

**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 54 .....	5
Literature 3 or History 21 .....	3	Literature 32 or History 12 .....	3	Literature 33 or History 13 .....	3
Physical Education .....	1	Engineering 62 .....	4	Engineering 63 .....	4
Speech 11 or Elective .....	3		---		---
	17		17		17

Sophomore engineering students should consult with advisors regarding specific requirements of the engineering school of their choice. Where possible, Math 63 may be worked into the schedule or Spring Quarter.

**PRE-FORESTRY**

**First Year**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biol 21 .....	5	Biol 22 .....	5	Biol 23 .....	5
Chem 21 .....	5	Chem 22 .....	5	Chem 23 .....	5
Encl 11 .....	3	Engl 12 .....	3	Engl 13 .....	3
Math 10 .....	3	Math 23 .....	3	Math 29 .....	3
Orient .....	1		---		---
	17		18		18

Substitute elective if student can begin with Math 28.

**Second Year**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Geol 11 .....	5	Biol 31 .....	5	Biol 32 .....	5
Econ 51 .....	3	Econ 52 .....	3	Agr 56 .....	5
Spch 1 .....	3	Geol 12 .....	5	Physics 11 .....	5
Humanities or	---	Humanities or	---	P.E. .....	1
Social Science .....	3	Social Science .....	3		---
P.E. .....	1	P.E. .....	1		---
	15		17		16



**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
Home Economics 15	5	Home Economics 12	3	Home Economics 11	3
Home Economics 32	3	Home Economics 16	3	Home Economics 36	3
Art 14	3	Art 15	3	Home Economics 24	2
Intro. to H. Econ.	1	Elective	2-3	Physical Education	1
		Physical Education	1	Elective	6
	16		17-18		17

**SECOND YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Economics 41	3	Home Economics 33	2	Home Economics 35	2
Home Economics 61	3	Home Economics 42	3	Home Economics 52	3
Psychology 31	3	Home Economics 34	3	Economics 41	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
	16		17		17

**HOME ECONOMICS (Transfer)**

**Associate in Science**

**FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	Home Economics 11	2
Home Economics 15	5	Home Economics 16	3	English 13	3
Art 14	3	Art 15	3	Home Economics 32	3
Biology 11	3	Biology 12	3	Home Economics 36	3
Speech	3	Mathematics 10 or		Biology 13	3
Orientation	1	Elective	3	Speech	3
	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	3
Chemistry 21	5	Soc. Sci. or Lib.	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

**MATHEMATICS**  
Associate in Arts or Science  
**FIRST YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11 .....	3	English 12 .....	3	English 13 .....	3
Mathematics 29 .....	5	Mathematics 30 .....	5	Mathematics 51 .....	5
Chemistry 21 .....	5	Chemistry 32 .....	5	Chemistry 33 .....	5
History 11 .....	3	History 12 .....	3	History 13 .....	3
Orientation .....	1	Engineering 22 .....	7	Engineering 23 .....	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 52 .....	5	Mathematics 53 .....	5	Mathematics 63 .....	5
Foreign Language .....	5	Foreign Language .....	5	Foreign Language .....	5
or		or		or	
Speech 14 .....	3	Engineering 62 .....	4	Engineering 63 .....	4
Physical Education .....	1	Physical Education .....	1	Physical Education .....	1
Elective .....	(3)	Elective .....	3	Elective .....	3
	17-19		18-19		18-19

**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 35 .....	5
Mathematics 16 or 28 .....	3	Biology 31 .....	5	Biology 32 .....	5
Physical Education .....	1	Mathematics 15 .....	3	Physical Education .....	1
Orientation .....	1	Physical Education .....	1	Mathematics 26 .....	3
Elective .....	3		---		---
	16		17		17

**SECOND YEAR**

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41 .....	5	Physics 42 .....	5	Physics 43 .....	5
Biology 51 .....	5	Soc. Sci. or Lit. .....	3	Soc. Sci. or Lit. .....	3
Soc. Sci. or Lit. .....	3	Chem 52 & 53 .....	5	Chem 53 & 56 .....	5
Chem 51 & 54 .....	5	Elective .....	2	Elective .....	2
	18		15		15

\*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 41.

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
Mathematics 28*	5	Mathematics 29*	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				
	<u>18</u>		<u>17</u>		<u>17</u>

\*Students with a deficiency in mathematics will replace the indicated courses with: Math 10, Fall Quarter; Math 28, Winter Quarter; and Math 29, Spring Quarter.

SECOND YEAR\* (Pre-Optometry)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21	3	Psychology 22	3	Psychology 23	3
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3
Biology 51	5	Physics 42	4	Biology 53	5
Physics 41	4	Speech 11	3	Physics 43	4
		Elective	2		
	<u>15</u>		<u>15</u>		<u>16</u>

\*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	5	Physics 42	5	Physics 43	5
Economics 51	5	Economics 52	5	Economics 53	5
Chem 51 & 54	5	Chem 52 & 55	5	Chem 53 & 56	5
Speech 11	3	Non-Professional Elect.	3	Non-Professional Elect.	3
	<u>15</u>		<u>15</u>		<u>16</u>

PHYSICAL SCIENCE\*

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Mathematics 28	5	Mathematics 29	5	Mathematics 30	5
Chem. 31 or Geol. 11	5	Chem. 32 or Geol. 12	5	Chem. 33 or Geol. 13	5
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3
Orientation	1	Physical Education	1	Physical Education	1
	<u>17</u>		<u>17</u>		<u>17</u>

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
	<u>16</u>		<u>16</u>		<u>16</u>

\*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.

## 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 advisor.

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 SCIENCE** 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 inter-mountain region. Five hours lecture and one three-hour 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.

Agriculture's role in our changing economy; modern technology and its implications for farm and non-farm people; structure of agricultural; industry and farm business; government and agriculture; analysis of the operating farm economy.

**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 or Chemistry 21.

**51. 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. Two classroom periods and one laboratory period per week.

## *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 structural and function of the human body. The anatomy and physiology of the integument, skeletal, muscular, nervous, senses, circulatory, respiratory, excretory, digestive, endocrine, and reproductive systems are studied during the two quarters. Three lectures and two laboratories each week in the fall quarter, and two lectures and one laboratory in the winter quarter.

**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 plant forms including a study of roots, stems, leaves, flowers, and seeds during fall quarter. Study of plant forms including the algae, fungi, mosses, ferns, gymnosperms, and angiosperms during the winter quarter. Three lectures and two laboratories per week.

**23. PLANT TAXONOMY** S. 5 hours.

This is a study of the classification and identification of the flowering plants. Emphasis is placed on plant family characteristics and the use of keys for identification. Four laboratories and one lecture each week with the use of mounted specimens and many field trips. Prerequisite: Biol. 22 or consent of the instructor.

**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, 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.

## Chemistry

### 21, 22, 13. 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 ANALYSIS

FWS. 5 hours.

Lectures, recitations and quiz sections, laboratory. Fundamental principles and applications of general inorganic chemistry; atomic structure; periodic table; gas laws. The spring quarter is devoted to a study of the metallic elements and the laws of chemical equilibrium accompanied in the laboratory by a systematic procedure for separation and identification of the common cations and anions. Designed for chemistry, medicine, engineering, or other science majors. Math 10 or 14 must be taken prior to, or concurrently with this course. Prerequisite: High school chemistry and satisfactory A.C.T. scores; or Chemistry 21.

### 41. INTRODUCTORY ORGANIC AND BIOCHEMISTRY F. 3 hours.

A course intended primarily for students in the Associate Degree program in Registered Nursing. Prerequisite: High School Chemistry or consent of the instructor.

### 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.

## Engineering

- 11. ENGINEERING DRAWING** **F. 3 hours.**
- A course for students with little background in mechanical drawing and those who lack the basic fundamentals of drawing necessary for working with the space relationships of descriptive geometry. The course includes use of drawing instruments, lettering, geometric constructions, principles of orthographic projections, technical sketching, sectional and auxiliary views.
- 12. DESCRIPTIVE GEOMETRY** **FW. 3 hours.**
- Orthographic projection of points, lines, planes, curved and warped surfaces. The graphic solution of problems involving the space relationships of these forms. Prerequisite: E. 11 or at least one year of high-school mechanical drawing and a sufficiently high mathematics placement score.
- 13. ENGINEERING DRAWING** **WS. 3 hours.**
- Review of sections, conventions, and auxiliary views. Standard fasteners, their calculation, representation, and notes. Dimensioning, fits, and limits. Detail and assembly drawings. Intersections and development of surfaces. Prerequisite: E. 11 or E. 12.
- 14. ENGINEERING PROBLEMS AND PROFESSIONS** **F. 1 hour.**
- A course which emphasizes engineering procedures and includes proper methods of problem solving, correct form, use of handbooks, and an introduction to some of the elements of the various fields of engineering. The class meets two times a week and satisfies orientation requirements as well as providing work in engineering problems.
- 22. SLIDE RULE** **FW. 1 hour.**
- Theory and operation of the slide rule, including use of trigonometric scales and log scales. Students must have had or must be taking concurrently a course in trigonometry.
- 51, 52, 53. ADVANCED TECHNICAL DRAWING** **FWS. 3 hours.**
- A course for terminal students tailored to the demands of the student's present or future employment. A course to pursue in detail and depth such subjects as perspective, working drawings, production illustration, gears and cams, structural drawing and detailing, and architectural details. The course is of a project type requiring a mature student willing to investigate all phases of his interest subject. Prerequisite: E. 13 and permission of instructor.
- 52. STATICS** **W. 4 hours.**
- Topics include principles of statics, study of vectors (their resolution and composition), forces and couples, force systems and their resultants, force systems in equilibrium (truss analysis, flexible cables, cranes), static friction (pivot and belt), moments of inertia, and virtual work. Prerequisite: Math 51 and Physics 51, and to be taken concurrently with Math 52.



**63. DYNAMICS**

S. 4 hours.

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

**71, 72. SURVEYING AND MAPPING**

F. W. 3 hours.

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

**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.

## Geology

**11, 12. PHYSICAL GEOLOGY**

FW. 5 hours.

A study of the earth, its materials, the development of land forms and the geologic processes involved. Diastrophic processes are considered in the winter quarter. Common rocks and rock forming minerals, the construction and interpretation of topographic maps are studied in laboratory. Four lectures and one laboratory per week. One all-day field trip to study local geologic features.

**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 laboratory per week. One all-day field trip to study local stratigraphy. Prerequisite: Geology 11, 12.

**31. ROCKY MOUNTAIN GEOLOGY**

S. 3 hours.

A study of the physical and historical geology of the Western Colorado region, primarily in the field. One lecture per week and one 3-hour laboratory plus four all-day field trips and four half-day field trips. Prerequisite: Geol. 13.

## Home Economics

1. **ORIENTATION (Introduction To Home Economics)** F. 1 hour.  
An orientation course for Home Economics majors.
10. **CLOTHING** F. 3 hours.  
Basic clothing construction processes applied to the individual. Designed for those not majoring in Home Economics. Two hours lecture, four hours laboratory.
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** F. 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** W. 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** F. 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** FS. 3 hours.  
Study of family-living problems with emphasis on management, child care, personal and family relationship. Three hours lecture.
33. **HOUSE PLANNING** WS 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** F. 3 hours.  
A lecture course pertaining to pre-natal growth; care of mother and baby; behavior patterns of the pre-school age child as shown in physical, emotional, and social growth.

**35. PRE-SCHOOL LABORATORY** W. 2 hours.

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

**36. HOME FURNISHING** FS. 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.

**41. 42. INTRODUCTION TO FOODS** FW. 3 hours.

Selection of foods and basic principles 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. College chemistry is prerequisite to this course.

**53. PREPARATION AND SERVICE OF MEALS** S. 3 hours.

Planning, preparing and serving family meals. Prerequisite: Home Economics 52.

**61. TAILORING** W. 3 hours.

Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Ec. 15, 16.

**64. BASIC DRESS DESIGN** W. 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: Home Ec. 10 and 15 or consent of instructor.

**71. CHILD DEVELOPMENT** WS. 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*

- 1. BASIC MATHEMATICS** F. or W. 3 hours.  
 A course in the fundamentals of mathematics for students lacking adequate background for Math 10. The course consists mostly of basic algebra but also includes a brief survey of terminology and theorems of plane geometry. Credit not intended for transfer nor for Associate Degree requirements. Meets daily.
- 10. COLLEGE ALGEBRA** F., W. or S. 3 hours.  
 A course for students who do not have strong mathematical backgrounds. Basic fundamentals are reviewed. Intended for the liberal arts student and those who do not qualify for Math 14 and Math 28. Prerequisites: one year high school algebra and satisfactory Math entrance scores, or Math 1. Class meets daily.
- 15. COLLEGE ALGEBRA** F., W. or S. 3 hours.  
 A continuation of Math 10 for the liberal arts student. Prerequisite: Math 10 or equivalent. Class meets three periods per week.
- 17. DATA PROCESSING MATH.** W. 2 hours.  
 To be taken concurrently with Math 15 for those who are in the Data Processing program. Includes selected topics not covered in Math 15 plus an introduction to trigonometry. Class meets two periods per week.
- 18. STATISTICS** WS. 5 hours.  
 An introductory course in statistics and statistical methods primarily intended for business, psychology, and education majors. Prerequisite: Math 15. Class meets daily.
- 20. PLANE TRIGONOMETRY** F., W. or S. 3 hours.  
 A general introduction to the theory and use of trigonometry. Intended for liberal arts students who may terminate their formal study of mathematics with this course. Prerequisite: Math 10 or Math 14.
- 28. COLLEGE ALGEBRA AND TRIGONOMETRY** F., W. or S. 5 hours.  
 The standard course in freshman mathematics for the math or science student, integrates algebra and trigonometry. Intended for students majoring in disciplines requiring a rigorous program in mathematics. Prerequisites: three years of high school mathematics and good math entrance exam scores, or Math 10. Class meets daily.
- 29. COLLEGE ALGEBRA AND TRIGONOMETRY** F., W. or S. 5 hours.  
 A continuation of Math 28. Open to beginning freshmen qualifying for advanced placement by virtue of having four years of high school mathematics and high math scores on entrance exams. Prerequisite: Math 28 or equivalent, or advanced placement. Meets daily.
- 30. ANALYTIC GEOMETRY** F., W. or S. 5 hours.  
 A standard course in analytic geometry without calculus; includes some three dimensional work. Prerequisite: Math 29. Class meets daily.

**51, 52, 53. DIFFERENTIAL AND INTEGRAL CALCULUS****FWS. 5 hours.**

A rigorous study of the theory and application of differential calculus. The third quarter includes a study of linear differential equations. Prerequisite: Math 30. Class meets daily.

**63. INTRODUCTION TO DIFFERENTIAL EQUATIONS S. 5 hours.**

A brief introduction to the formal study of differential equations with applications. Prerequisite: Math 52. Class meets three periods per week.

## *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 11 includes astronomy, meteorology, and geology; course 12 includes force and motion, heat, electricity, sound and light; and course 13 includes the chemistry of matter and nuclear energy. Not open to students who are taking or have taken other college courses in physical science.

## *Physics*

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

A course in physics consisting of lectures, demonstrations, discussions, and laboratory work is designed for the non-science major with special emphasis on the understanding of underlying principles and methods of physics and their application to life in modern times. Four discussion and lecture periods and one three-hour laboratory.

**41, 42, 43. GENERAL PHYSICS FWS. 5 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.

# Division of Social Science

The work of the Division of Social Science is designed to prepare the student for more advanced work in upper-division courses to be taken at a four-year college or university.

In addition, the course work in anthropology, economics, geography, government, history, psychology will help prepare students for a more active, intelligent role as citizens in their respective communities.

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Instructional staff: Mr. Jones, Chairman; Mr. Daily, Mr. Harper, Mr. MacKendrick,  
Mr. Nicholson, Mr. Perry, Mr. Roberts, Mr. Tiemann.

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## SOCIAL SCIENCE

### 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 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 History .....	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 .....	3	Sociology 62 .....	3	Sociology 63 .....	3
	12		12		12

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## 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 28 .....	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				
	<hr/>		<hr/>		<hr/>
	17		15		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 II .....	3	Speech II .....	3	Elective .....	3
Elective* .....	3	Elective .....	3		
	<hr/>		<hr/>		<hr/>
	17-19		17-19		15-16

\*Recommended Electives: Accounting or Economics.

## Social Science

## ANTHROPOLOGY

## 11, 12, 13. INTRODUCTION TO ANTHROPOLOGY FWS. 3 hours.

A three-quarter introductory survey of the basic concepts of anthropology. Major areas studied are the biological nature of man, the evolution of man, race, and the development and history of culture. The three quarters should be taken consecutively, with 11 prerequisite for 12, and 12 prerequisite for 13.

## 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

## 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.

**20. HISTORY OF COLORADO****F., W. or S. 3 hours.**

A survey of the history of Colorado from pre-historic times to the present. The course, includes consideration of the pre-historic peoples, the trapping and trading era, the mining period, and economic, political and social development of the state.

**24, 25, 26. HISTORY OF LATIN AMERICA****FWS. 3 hours.**

A survey of the history of Latin America. In the first quarter pre-Columbian civilizations, the Colonial period, and the Revolutionary period will be studied. Second quarter: The emergence of the Latin-American republics. Third quarter: 20th Century problems and prospects. Considerable attention will be given to relations between Latin America and the United States.

**31, 32, 33. UNITED STATES HISTORY****FWS. 3 hours.**

A survey course in the history of the United States. Fall quarter: Colonial period to Age of Jackson; Winter quarter: Expansionist Era to Progressive Era; Spring quarter: World War I to the present.

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

The purpose of this course is to acquaint the student with the problems of the day. In addition to studying week-to-week domestic and international happenings, special emphasis is placed on the historical and ideological reasons for these events. Economic, social, and political problems are discussed. Although current periodicals are the chief source of materials, students are encouraged to obtain necessary background by the use of library resources. The course may be repeated for credit.

**POLITICAL SCIENCE****11, 12, 13. AMERICAN GOVERNMENT****FWS. 3 hours.**

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

**53. PHILOSOPHY OF AMERICAN DEMOCRACY****S. 3 hours.**

A course which deals with significant political issues in American democracy presented in a philosophical context. Emphasis will be placed on contemporary issues, but attention will be given to distorical factors. Lectures, discussion, and outside reading.

**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, nation-



ality, 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.

**64. 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 psychological and physiological development of the individual from conception through the period of old age. Prerequisite: Psychology 21 and 22.

**74. EDUCATIONAL PSYCHOLOGY S. 5 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.

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

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

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

*Business*

# Division of Business

The basic purpose of the Mesa College Business Division 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.

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Instructional Staff: Mr. Goffredi, Chairman; Miss Beard; Mr. Carstens; Miss Capes; Mrs. Danser; Mrs. Harper; Mr. Monroe; Mr. Squirrel.

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## 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.

The Division of Business enjoys a fine reputation among the colleges and universities of the area for its high level transfer programs in Business Administration, Accounting, and Secretarial Science. New programs in technical education are being added to the business curriculum to meet the need for better trained manpower. See page 92

## 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 31 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.

## PROFESSIONAL PROGRAMS

### 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 28 .....	3	Mathematics 15 .....	3	Mathematics 20 or 18 .....	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 21 .....	3	Psychology 22 .....	3	Psychology 23 .....	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

## Associate in Commerce

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	1	Business 32	3	Sec. Science 14	3
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	5-5
Elective	2	Elective	3	Business 11	3
	16-18		17-18		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
Acctg. 62	3	Acctg. 63	3	Acctg. 64	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.

## SECRETARIAL

## Associate in Commerce

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	2	English 12	3	English 13	3
Sec. Science 21	4	Sec. Science 22	4	Sec. Sci. 14	2
Sec. Sci. or Lit.	3	Sec. Sci. or Lit.	3	Sec. Sci. 23	4
Business 1	1	Physical Education	1	Sec. Sci. or Lit.	3
Business 41	4	Speech 11	3	Physical Education	1
	15	Elective	2	Business 11	3
			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 13	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, Agriculture, Art, Home Economics, Income Tax, Insurance, Language, Music, Personal Finance, Psychology, and Salesmanship.

## 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, bonds, bond sinking funds, and managerial uses of financial statements. The final quarter is devoted largely to corporate accounting and the completion of a practice set. Class meets daily.

**62, 63. INTERMEDIATE ACCOUNTING** **FW. 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.

**64. COST ACCOUNTING** **S. 3 hours.**

An introduction to the determination of the cost of manufacturing. Emphasis will involve the three elements of cost—material, labor and overhead. The job cost system, process cost system and standard cost system will be the major topics. Miscellaneous cost factors will be introduced at appropriate times.

### *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 COMMUNICATION** **FWS. 3 hours.**

A study of the essentials of English in business communication. Creative, logical, and critical thinking are applied to the criticism, preparation, and planning of business letters and written and oral reports. Prerequisite: English 11, 12, and 13, or enrollment in English 13, and a knowledge of typing.

10. **WORD STUDY (Business)** F. 2 hours.  
A study of words: their spelling, meaning, derivation, and pronunciation with emphasis on spelling. Emphasis will be placed on business terms. Open to all students.
15. **WORD STUDY (Business)** S. 2 hours.  
Continuation of Business 10 with emphasis on vocabulary building.
- 21, 22, 23. **BUSINESS MACHINES** FWS. 2 hours.  
Fundamental skills are developed in such machines as the ten-key adding machine, key-driven calculators, and electric calculators. 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 AND 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. Emphasis is given to payroll, interest, and percentage computations as applied to business and consumer problems. 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**

FW. 3 hours.

Review of letter styles, forms of punctuation and other fundamentals. Direct dictation at typewriter. Intensive drill on letter placement with available copy. Development of speed required in the average office. Prerequisite: One year high school typing or equivalent. Class meets daily.

**15. ADVANCED TYPEWRITING**

WS. 3 hours.

Study of tabulations, telegrams, memos, business letters and legal forms. Fundamental skills are developed on duplicating machines and transcription machines. Prerequisite: SS 14. Class meets daily.

**19. STENOSCRIP ABC SHORTHAND**

FW. 4 hours.

A shorthand course with emphasis on use of letters of the alphabet. Designed for those needing to take notes in lectures or in the office. Extensive vocabulary drill. Dictation given at 80 words per minute in second half of quarter. Class meets daily.

**20. STENOSCRIP ABC SHORTHAND DICTATION**

WS. 4 hours.

Dictation at 80 to 110 words per minute. Prerequisite: SS 19.

**21. SHORTHAND THEORY**

F. 4 hours.

A course for those students with no previous knowledge of shorthand. A limited amount of dictation is given. No credit will be given if student has high school credit. Class meets daily.

**23. BEGINNING DICTATION**

FS. 4 hours.

Review of the principles of shorthand. Dictation is given at the rate of 80 to 100 words a minute. Machine transcription, with special attention to letter arrangement. Prerequisite: 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 to 110 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 110-130 words a minute and transcription at an acceptable office rate of 25 to 30 words a minute are attained. Vocational vocabulary is studied. Prerequisite: SS 31. Class meets daily.
33. **SECRETARIAL PRACTICE** W. 3 hours.  
Skill is developed in the application of typing and shorthand to office situations and on transcribing machines. Business dress, business ethics, and personality development is discussed. Prerequisite: Credit or enrollment in SS 23 and SS 14.

## TERMINAL PROGRAMS

### *Accounting and Secretarial*

The Division of Business offers one or two year programs in both accounting and secretarial science. The basic purpose of these programs is to afford students an opportunity to receive training which will in a relatively short time fit them for employment.

In the two-year accounting program general education is incorporated with two years of accounting and related subjects. The one-year curriculum offers only one year of accounting and related subjects.

The two-year secretarial program incorporates general education with the skills of shorthand, typing, and secretarial practice.

The one-year clerical and stenographic courses concentrate on the rapid development of skills to enable the student to seek employment in the shortest possible time.

Both the two-year accounting and two-year secretarial programs lead to the Associate of Commerce degree or the Mesa College Diploma.

## ACCOUNTING (18 Months)

## Associate in Commerce

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	1	Accounting 32	3	Sec. Science 14	3
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	Business 11	3
	16-18		17-19		17-19

## 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
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Psychology	3	Psychology	3	Psychology	3
Acctg. 62	3	Acctg. 63	3	Acctg. 64	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.

## 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	3	Sec. Sci. 14	3
Elective	4			Business 11	3
Business 30	2			Elective	3
	17		16		18

\*Course descriptions are given in General Business and in the Liberal Arts sections of this catalog.

## 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	3
Soc. Sci. or Lit.	3	Soc. Science 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	3-5
Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3	Soc. Sci. or Lit.	3
Physical Education	1	Sec. Science 15	3	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		15		16

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

## STENOGRAPHIC-CLERICAL COURSE (9 Months)\*

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	3	Speech 11	3	Accounting 13	3
English 11	3	English 12	3	English 15	3
Sec. Science 14	3	Business 42	2	Business 23	2
Sec. Science 23	4	Business 22	2	Sec. Science 32	4
Business 10	2	Sec. Science 15	3	Business 11	3
Business 41	4	Sec. Science 31	44		
	17		17		15

\*Course descriptions are given under General Business, Secretarial Science, and Liberal Arts sections of this catalog.



IBM 1620 Computer.

*Technical,  
Vocational, and  
Continuing  
Education*

# TECHNICAL EDUCATION

Recognizing the national need for better trained manpower, Mesa College proposes to train individuals to become technicians in various fields of business. A modern technician is a person who receives training at a level between vocational education and professional education. Technical education meets both the demands of business and industry and also the needs of many students who for various reasons do not complete a baccalaureate program. These students do have an opportunity through technical education to reach the status of semi-professional.

While the objective of each of the following programs is to produce a skilled technician, Mesa College places equal emphasis on the development of the individual by requiring general education courses along with technical courses.

Each of the following programs will lead to an Associate Degree or the Mesa College Diploma.

## *Data Processing*

A two-year curriculum leading to the degree of Associate in Commerce.

### ADVISORY COMMITTEE

Robert W. Coe  
Sen. Edwin S. Lamm

Mrs. Claud Smith

Earl Jensen  
John Guthrie

The electronic data processing field offers a wide diversification of job possibilities for trained personnel. Key Punch operators assist in the preparation of punched cards in which the data is originally recorded. Machine operators supervise the operation of the data processing machines. Computer personnel plan the patterns to be followed by the computer to produce many types of information.

A student at Mesa College will, during the two years of attendance, spend much time working directly on and with the data processing machines including the electronic computer. Problems similar to those of actual business will be solved by the student using IBM machines.

High school graduates who are interested in applying for admission are required to present a minimum of one year of typing and one year of algebra.

Data Processing technicians are employed by business and industry in the following positions:

Machine Operators  
Machine Supervisors  
Installation Supervisors

Programmers  
Research  
Computer Specialists

## DATA PROCESSING

## Associate in Commerce

## FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11	3	English 12	3	English 13	3
Mathematics 10	3	Mathematics 15	3	Mathematics 13	5
Accounting 31	3	Mathematics 17	2	Accounting 33	3
ADP 44	5	Accounting 32	3	ADP 47	5
Orientation	1	ADP 45	5	Physical Education	1
	—	Physical Education	1		—
	16		17		17

## SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Science 11	3	Science 12	3	Science 13	3
Economics 51	3	Economics 52	3	Economics 53	3
Psychology	3	Psychology	3	Psychology or History	3
ADP 61	5	ADP 62	5	ADP 63	5
Accounting 64	2	Physical Education	1	Acctg. 64	3
	—		—		—
	17		16		17

## 44, 45, 46. AUTOMATIC DATA PROCESSING FWS. 5 hours.

A course designed to acquaint students with the operation and application of automatic data processing equipment. The student will use the latest IBM equipment in gaining an ability to solve business problems at electronic speeds. Systems and procedures involved in data processing will be stressed throughout. Prerequisite: 1 yr. typing and 1 yr. Algebra or equivalent.

## 61, 62, 63. AUTOMATIC DATA PROCESSING FWS. 5 hours.

A continuation of ADP 44, 45, 46. Emphasis will be upon the operation of the electronic computer. Both SPS and Fortran languages will be developed, and the student will write programs in each language to solve a variety of business problems. Prerequisite: ADP 44, 45, 46.

Other course descriptions will be found in the Liberal Arts and General Business sections of this catalog.

*Medical Office Assistant*

## ADVISORY COMMITTEE

Sister Mary Aloys  
Mr. Clinton Biggs  
Dr. A. L. Lindsay  
Mrs. Mel Morrow

Dr. Louise Porter  
Dr. Richard P. Saunders  
Mrs. Jo Smith  
Mrs. Helen Staggs

Dr. J. W. Standeven

In the field of medicine, a fascinating one for many young women, a new and interesting career has been receiving increasing attention in recent years—the Medical Office Assistant. Mesa College will prepare young women of ability and character for this course in a two-year curriculum.

The Medical Office Assistant must be versatile, fitted by training and addition to general education; she needs basic knowledge and skills such as personality; to work with professional medical people in various ways. In as typing, medical shorthand, accounting and office procedures. Courses in anatomy, biology, and medical terminology are working tools and provide a basis for acquiring the vocabulary of medicine. Courses in laboratory techniques provide a background for laboratory assisting.

Medical Office Assistants are employed by the following:

Private Medical Offices	Hospitals
Public Health Clinics	Medical Research Agencies
Industrial or Private Clinics	Drug Companies

Refer to pages 48 and 50 for curriculum and course descriptions.

## CONTINUING AND VOCATIONAL EDUCATION

Mr. Wheeler, Chairman

In keeping with the purpose of the college, the continuing 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 and 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. 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

### 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.

### 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. These courses may be taken for college credit or on a non-credit basis. The curriculum for the Evening School of Business is built around the following main courses. Bookkeeping and Accounting, Shorthand, Typewriting, and Office Machines.

Courses offered once during the school year include Business Mathematics, Business English, Business Law and Business Correspondence. Other courses in the field of business are offered when there is sufficient interest to warrant the organization of a class.

### 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.

### MANPOWER DEVELOPMENT AND TRAINING ACT PROGRAMS

Instructors: Miss Beard, Mr. Bement.

Mesa College was authorized in September 1964 for participation in the Manpower Development Training Act. Beginning with the Fall Quarter, facilities and instructional staff were provided for the admission of a selected number of students in a full-time educational and training program in automobile mechanics and another in secre-

tarial and office practices. In cooperation with the local Colorado Employment Office, applicants were screened and 20 students were admitted to each program.

Continuation and expansion of these programs is subject to yearly approval through the Colorado Vocational Education Department. Students interested in these programs may contact the local Colorado Employment Office or the appropriate division chairman at Mesa College.

## PRACTICAL NURSING

Refer to page 50 for curriculum and course description.

## Trade and Industrial Education

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

### 1, 2, 3. AUTO MECHANICS

FW. 3 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: \$21.00.

### 4, 5, 6. WELDING

FWS. 2 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: \$15.00 plus materials fee: \$20.00.

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

AND PAINTING FW. 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: \$18.00.

### 21, 22, 23. MACHINE SHOP

FW. 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: \$18.00.

\*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 Division of Continuing Education.

## SUMMER QUARTER

When justified by demand a limited summer program may be made available. Typical courses offered in previous summers include Accounting, Business Mathematics, Business Machines, Business Correspondence, Shorthand, and Typing. Usually a minimum of ten students is required to justify offering any one course.

This program, when offered, operates on a ten-week schedule with classes being held in forenoons only. Registration and classes begin on the Monday following Spring Quarter graduation and terminate the middle of August.

Tentative bulletins on Summer School offerings are usually available from the chairman of the Division of Business or from the Registrar after May 1.

## RANGELY COLLEGE

### FOREWORD

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

### LOCATION

Rangely College is located in Rangely, Rio Blanco County, on Highway 64 between Artesia and Meeker approximately 90 miles northwest of Grand Junction. The college grounds are located on a 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 and 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.

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 (2+2), Physics (1)

#### FOR FURTHER INFORMATION

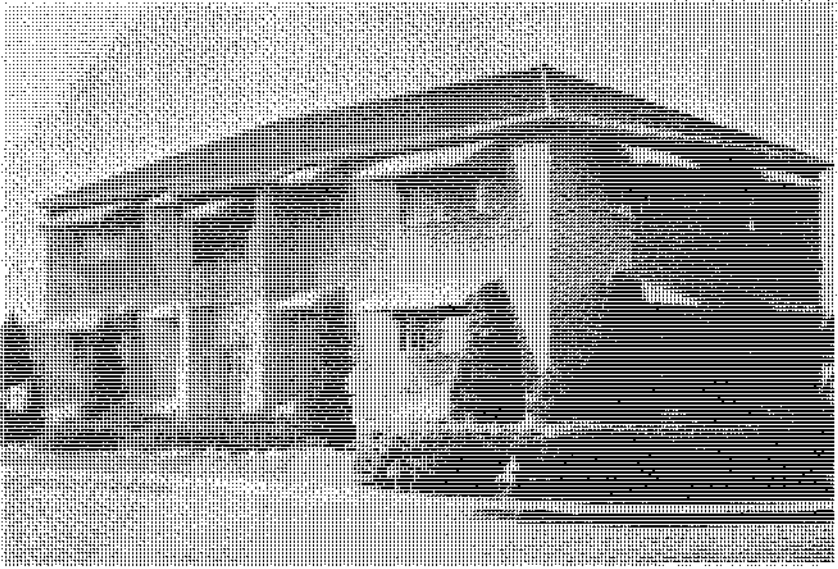
Write to Director of Admissions:  
Rangely College  
Rangely, Colorado



Language Laboratory

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Men's Dormitory



College Center Lounge

## VOCATIONAL-TECHNICAL CURRICULA OFFERED BY COLORADO COMMUNITY JUNIOR COLLEGES

In addition to lower-division offerings in arts, sciences, business and pre-professional academic transfer programs, Colorado Community junior colleges offer the following two-year vocational or technical programs:

Course of Study	Lamar	Mesa	North- eastern	Otero	Rangely	Trinidad
Agriculture .....	X	X	X	X		
Agri-Business Technology .....			X			
Airlines Stewardess .....	X					
Architectural Drafting Technology ..						X
Auto Body Maintenance .....	X					
Auto Mechanics .....	X					X
Building Trades (Carpentry) .....	X					X
Business .....	X	X	X	X	X	X
Chemical Technology .....			X	X		X
Civil Technology .....			X	X		X
Community Recreation .....	X					
Computer Programming .....						X
Computer Maintenance Technology ..						X
Cosmetology .....	X					
Data Processing Technology .....	X	X		X		X
Dental Hygiene .....					X	
Drafting and Design Technology .....			X	X		X
Electronic Technology .....	X		X		X	X
Engineering Technician .....		X				
Farm Mechanics .....	X					
Gunsmithing .....						X
Home Economics .....		X				X
Industrial Arts .....						X
Law Enforcement Technology .....	X					X
Mechanical Technology .....				X		
Medical Office Assistant .....		X		X		
Medical Technology .....				X		
Practical Nursing .....		X	X			X
Registered Nursing .....		X				
Secretarial Science .....	X	X	X	X	X	X
Soils Technology .....			X	X		
Stenotyping (Court Reporting) .....	X					
Technical Administrative Ass't. ....	X					

