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 22) 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 22.)
   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 four different dates, in November, February, April, and June. 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 20 for further information.)
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College Calendar...

FALL QUARTER, 1964

September 1  New Student Credentials Due
September 8, 9  Mesa College Faculty Workshop
September 10, 11  District Faculty Workshop
September 14, 15, 16  Orientation, Registration, Counseling, and Testing for New and Transfer Students
September 16, 1:00 p.m.  Registration Begins
September 17, 18  Registration Continues
September 21  Classes Begin
September 23, 7:00-9:00 p.m.  Night School Registration
September 30  Last Day to Change Schedule
November 2-4  Mid Term Examinations
November 25, 12:00 Noon  Thanksgiving Vacation Begins
November 30  Classes Resume
December 8  Final Examinations Begin
December 11  Fall Quarter Ends

WINTER QUARTER, 1965

January 2, 8:00 a.m.  New and Transfer Student Testing
January 4  Registration Begins
January 5, 8:00-11:00 a.m.  Registration Continues 12:30 p.m.  Classes Begin
January 6, 7:00-9:00 p.m.  Night School Registration
January 13  Last Day to Change Schedule
February 8-10  Mid Term Examinations
March 10  Final Examinations Begin
March 17  Winter Quarter Ends

SPRING QUARTER, 1965

March 23, 7:00-9:00 p.m.  Night School Registration
March 24  Registration Begins
March 23, 8:00-11:00 a.m.  Registration Continues 12:30 p.m.  Classes Begin
April 2  Last Day to Change Schedule
April 26-28  Mid Term Examinations
May 28  Final Examinations Begin
June 4  Commencement

SUMMER QUARTER

See page 90 for Summer Quarter information
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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 the morning 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

OFFICERS OF ADMINISTRATION
Nathan A. Ivey, B.S., M.B.A., Ed.D. Dean
Richard A. Meyer, B.S.B.A. Business Officer
George B. Young, B.S.M.E. Superintendent of Buildings and Grounds

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 Arickaree and Meeker. Approximately 90 miles north-east of Grand Junction. The college grounds are located on a 190-acre tract of land overlooking 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
Arts and Sciences
Dental Hygiene
Electronic Technology

Courses and Units
General Courses
Biology (1), Chemistry (1)
Mathematics (2), Physics (1)

FOR FURTHER INFORMATION
Write to Director of Admissions
Rangely College
Rangely, Colorado
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GRAND JUNCTION, COLORADO 89

Trade and Industrial Education

A limited selection of Trade and Industrial courses will be offered in the adult night school 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: $23.00.

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. 3½ 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. 3½ 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 Adult Education Office.
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

1. FOR ALL STUDENTS. To supply training for citizenship and enriched personal living to all students regardless of classification, by providing:
   - General courses and group activities through which they are enabled to gain for themselves personal, social, civic and vocational competencies;
   - A well-rounded education that develops within them a sound emotional and social balance and personal resources for continued intellectual growth;
   - Assistance toward better understanding and appreciation of the values of art, music, literature and other cultural activities;
   - Help in increasing their knowledge of economic principles, political institutions and historical trends and developments.

2. FOR TERMINAL STUDENTS. To provide certain types of vocational 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.
The Medical Office Assistant must be versatile, fitted by training and personality, to work with professional medical people in various ways. In addition to general education, she needs basic knowledge and skills such 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  
Public Health Clinics  
Industrial or Private Clinics  
Hospitals  
Medical Research Agencies  
Drug Companies

Associate in Commerce

<table>
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At the time of printing this catalogue the curriculum had not been fully developed. Individuals interested in this program are encouraged to write Mesa College for further information on Medical Office Assistant.

Mid-Management Technology

The purpose of the Merchandising Mid-Management Technology program is to provide instruction in the field of distribution. This program serves employed distributive personnel within the framework of their careers. It is intended to give the training needed to students or workers who occupy the positions of management. This is a cooperative program between Mesa College and business and industry in the community, and incorporates classroom instruction and on-the-job experience.

Learning will concentrate on certain management concepts applicable to mid-management distributive occupations and students who complete the program will be prepared for initial employment in specific jobs and mid-management positions.

Mid-management technologists are employed in merchandising businesses in the following positions:

Buyers  
Supervisors  
Sales Managers  
Assistant Managers  
Department Managers  
Managers

At the time of printing this catalogue the curriculum has not been fully developed. Individuals interested in this program are invited to write Mesa College for further information on Merchandising Mid-Management Technologist.

GRAND JUNCTION, COLORADO

Personnel

MESA JUNIOR COLLEGE DISTRICT COMMITTEE

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

OFFICERS OF ADMINISTRATION—MESA COLLEGE

William A. Medley, President  
B.S., Purdue University  
M.A., Ed.D., Columbia University  

Kenneth Lehnke, Assistant to the President  
B.A., M.Ed., University of Colorado  
Adv. Grad. Study, University of Colorado

Don A. Shore, C.P.A.  
B.S. in Accounting, Kansas State University  

Jay Tolman, Dean of Men  
B.S., M.S., Utah State University  
Adv. Grad. Study, University of Colorado, University of Utah

Esther Tolley, B.N.  
Dean of Women  

Edith Hash, B.A., M.A., University of Denver  
Adv. Grad. Study, Western State College

Lowell Heinz, Registrar  
B.A., McPherson College  
M.A., Colorado State College  
Ed.D., University of Colorado

OFFICERS OF ADMINISTRATION—RANGELEY COLLEGE

Nathan A. Ivey, Dean  
B.S., Hardin-Simmons University  
M.B.A., Texas Technological College  
Ed.D., Kellogg Foundation Fellow, University of Michigan

Richard A. Meyer, Business Officer  
B.S.B.A., University of Colorado

George B. Young, Superintendent of Buildings and Grounds  
B.S.M.E., University of Des Moines

ACADEMIC DIVISION CHAIRMEN

Alfred Goffredi, B.A., M.A.  
Division of Business  

Harry Hamer, B.M., M.M., Ed.D.  
Division of Fine Arts  

Esther Herr, B.A., M.A.  
Division of Humanities  

Dan Showalter, B.A.  
Department of English  

Lloyd Jones, B.A., M.A.  
Division of Social Science  

Wayne Nelson, B.S., M.S.  
Division of Physical Education  

Herbert Weldon, B.A., M.A.  
Division of Science and Mathematics  

Eugene W. Edgley, B.A., M.S.  
Department of Biology  

Melvin McNew, B.A., M.A.  
Department of Chemistry  

Louise G. Moser, B.A., M.N., R.N.  
Director of Nursing Education  

Walter E. Wheeler, B.A., M.Ed.  
Division of Adult and Vocational Education
DIRECTORS OF COLLEGE SERVICES
Margaret Ann Arbenn Librarian
B.A., M.A., University of Colorado
B.S. in L.S., University of Denver
T. M. Bishop Director of Counseling, Guidance and Testing
B.A., M.A., Colorado State College
Adv. Grad. Study, Colorado State College
Carl D. Brown Maintenance Superintendent
Wallace Dubbins 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
B.A., M.A., Western State College
Bee Randolph, R.N. Director of Health Service
St. Luke's School of Nursing
Elma C. Tromble Librarian
B.A., Kansas Wesleyan University
M.S., Kansas State Teachers College
Jacqueline Williams IBM Supervisor
B.A., University of Texas

DORMITORY SUPERVISORS
Mrs. Clara Graham and Mrs. Mary Overall Mary Rait Hall
Mr. and Mrs. Lawrence Undergard Bel-Air Dormitory
Jack Scott Men's Dormitory

ACADEMIC PERSONNEL
Herman C. Allinras Science, Mathematics
B.S., University of Wisconsin
M.S., Highlands University
Walter F. Burgan Physical Education
B.S., M.M., Colorado State University
Frances Best English
B.A., William Jewell College
Certificate, Kansas City Business College
Grad. Study, Western State College; Colorado University;
B.A., Adams State College
Darrell C. Blackburn Music
Orville L. Bogh Chemistry, Physical Science
B.A., Colorado State College
M.A., Colorado State College
Adv. Grad. Study, Michigan State University; University of the Pacific
Anne Bullock, R.N. Psychiatric Nursing (Summer Session)
B.S., University of Denver
M.S., University of Colorado
James C. Carstens Business
B.A., M.A., Western State College
B.S., University of Colorado
M.S., in Architecture, Harvard University

GRAND JUNCTION, COLORADO

CURRICULUM
Associate in Commerce

FIRST YEAR

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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 speed. 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 FORTRAN 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
Archie H. Gould, M.D. George R. Simpson, D.O.
Harlon B. Huskey, M.D. J. W. Standish, M.D.
Richard P. Saunders, M.D. Richard E. Trox, M.D.

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.
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. Roe
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. 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 in business and industry in the following positions:

Machine Operators
Machine Supervisors
Installation Supervisors
Programmers
Research
Computer Specialists

Mary M. Coleman
B.S., Alfred University
M.P.S., University of Colorado
Mathematics

John C. Cook
B.S., E.M., Colorado School of Mines
Engineering

James C. Davis
B.A., M.A., Colorado State College
Mathematics, Engineering
Adv. Grad. Study, University of Colorado; Colorado State University

Yolanda J. D’Allia, R.N.
Cornell University—New York Hospital School of Nursing
B.S., New York University
M.S., University of Colorado
Nursing

Elaine F. Eddy
B.A., Yankton College
M.A., Western State College
Biology

Eugene W. Endrey
B.A., M.S., University of Denver
Adv. Grad. Study, University of Colorado; University of Oregon
M.A., Western State College
Biology

Abbott Fay
B.A., M.A., Colorado State College
Adv. Grad. Study, University of Denver
Graduate Certificate, Western State College
Social Science

Richard G. Frohock
B.A., William Jewell College
M.A., University of Oregon
Adv. Grad. Study, University of Kansas; University of Utah
M.A., Western State College
English

Virginia D. Fulkerson
B.A.; M.A., Western State College
Grad. Study, University of Colorado; Western State College

H. Hugh Gibson, C.P.A.
B.S.B.A., University of Denver
M.B.A., University of Denver
Business, Accounting

Allred Godfrey
B.A., M.A., Western State College of Colorado
Adv. Grad. Study, Western State College of Colorado

Harry Hammer
B.M., M.M., Syracuse University
Adv. Grad. Study, Syracuse University; Aspen School of Music; Eastern School of Music
Ed.D., University of Colorado
Music

James Banks
Social Science, Assistant Director of College Center
B.A., Colorado College
Adv. Grad. Study, Colorado State College

Roy E. Hannah
B.S., Colorado State University
Adv. Grad. Study, Colorado State University
Agriculture

Helen M. Hansen
B.A., Washington State University
M.A., University of Denver
Business
James T. Harper  Social Science, Band
  B.A., Central Methodist College
  I.L.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
  Adv. Grad. Study, Colorado State University, University of Utah
Esther Herr  English Language, Literature
  B.A., State University of Iowa
  M.A., Columbia University
Cheo Humphries  Physical Education
  B.S., Indiana University
Robert L. Johnson  English, Speech
  B.A., Western State College
  Grad. Study, Western State College
Lloyd Jones  Psychology, Social Science
  B.A., M.A., Western State College of Colorado
  Adv. Grad. Study, University of Colorado, University of Utah
May Belle Kanavel  Business
  B.A., B.E., University of Colorado
  M.S., School of Commerce, University of Denver
Ruth C. Kunkle  Home Economics
  B.A., Arizona State University
  Grad. Study, Oregon State University
Maurine M. Leighton  Home Economics
  B.S., Home Economics Education, Oklahoma State University
  Adv. Grad. Study, Oklahoma University, Colorado State University
Milton F. Lene  Chemistry, Physics
  B.A., Ohio Wesleyan University
  M.S., Clarkson College of Technology
  Adv. Grad. Study, Northeastern University, University of Texas
Donald A. MacKendrick  Social Science
  B.S., Colorado State University
  M.A., University of Colorado
  Adv. Grad. Study, University of Colorado, University of Nevada
Richard L. Marrs  Speech, English
  B.S., M.A., University of Nebraska
Melvin McNew  Chemistry, Mathematics
  B.A., M.A., Western State College of Colorado
  Adv. Grad. Study, University of Denver, Oregon State University
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., Ohio State University

Ethel Mae Moore ................................ English, Literature
B.S., Nebraska Wesleyan University
M.A., University of Nebraska
Adv. Grad. Study, Bread Loaf School of English,
University of Nebraska

Louise G. Moser, R.N. .......................... Director of Nursing Education
B.A., Wittenberg University
M.N., University of Washington
Graduate of Massachusetts General Hospital School of Nursing

Lloyd Mountain ................................ Language
B.A., University of Colorado
Grad. Study, College of St. Catherine's

George Murray ................................ Mathematics
B.S., New Mexico School of Mines

Wayne Nelson .......................... Director of Physical Education
B.S., M.S., Utah State University
Adv. Grad. Study, University of California

I. J. Nicholson .......................... Social Science
B.A., University of Colorado
M.A., Western State College

Roberta R. Peck ................................ English
B.A., University of Colorado
M.A., University of Wyoming
Adv. Grad. Study, University of Arizona

Murton Perry .......................... Social Science
B.S., Rutgers University
M.A., University of Wyoming
Adv. Grad. Study, Rutgers University; New Brunswick
Theological Seminary

Dean N. Phillips .......................... Mathematics, Engineering
B.S., Architectural Engineering, University of Colorado
B.S., Business, University of Colorado
M.S., Industrial Engineering, Stanford University

James B. Phipps .......................... Geology
A.S., Grays Harbor
B.S., Washington State
M.S., University of Colorado

William David Pilkinson ........................ Language
B.A., Marshall College
M.A., University of Michigan

Mai Robinson .......................... English
B.S., Minot State Teachers College
SECRETARIAL COURSE (18 Months) *

Assistant In Commerce

FIRST YEAR

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CLERICAL COURSE (9 Months) 

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STENOGRAPHIC COURSE (9 Months) 

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*Course descriptions are given under General Business, Secretarial Science, and Liberal Arts sections of this catalog.
ACCOUNTING (18 Months)*

Associate in Commerce
FIRST YEAR

Fall Quarter | Hours | Winter Quarter | Hours | Spring Quarter | Hours
---|---|---|---|---|---
Business 1 | 1 | Accounting 22 | 3 | Sec. Science 12 | 2
Accounting 33 | 3 | English 12 | 3 | English 13 | 3
English 11 | 3 | Business 22 | 3 | Business 33 | 3
Math or Science | 3.5 | Math or Science | 3.5 | Math or Science | 3.5
Elective | 2 | Elective | 2 | Elective | 2

Total: 18-20 17-19 16-18

SECOND YEAR

Fall Quarter | Hours | Winter Quarter | Hours | Spring Quarter | Hours
---|---|---|---|---|---
Economics 21 | 3 | Economics 22 | 3 | Economics 31 | 3
Business 31 | 3 | Business 32 | 3 | Speech 11 | 3
Literature | 3 | Literature | 3 |Literature | 3
Psychology | 3 | Psychology | 3 | Psychology | 3
Business 12 | 3 | Accounting 62 | 3 | Accounting 61 | 3
Physical Education | 1 | Physical Education | 1 |

Total: 16 16 16


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

ACCOUNTING (9 Months) *

Fall Quarter | Hours | Winter Quarter | Hours | Spring Quarter | Hours
---|---|---|---|---|---
Accounting 21 | 3 | Accounting 32 | 3 | Accounting 33 | 3
English 11 | 3 | Business 12 | 3 | English 13 | 3
Business 41 | 4 | Business 15 | 3 | Business 22 | 3
Elective | 4 | Elective | 5 | Sec. Science 14 | 2
Elective | 2 | Elective | 2 | Business 11 | 2

Total: 19 15 16

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

GRAND JUNCTION, COLORADO

SPECIAL MUSIC INSTRUCTORS

Gerald Bailey ......................... Voice
Dean Beck ......................... Woodwind Instruments, Percussion
Ann Bullen ......................... Organ
Mary Leah Chaves .................... Bass Viol
Anna Rose Cheney .................... Voice
Ola Cook ......................... Piano
Alice Griggs ......................... Piano
Marshall Griggs ................. Strings
Maebeth Guyton .................... Voice
Anna Mae Heiny .................... Piano
Marion L. Jacobs .................. Brass Instruments
Donna Jackson .................... Piano
Leslie Kittle ...................... Organ, Piano
Edna Marsh ......................... Organ
Lois Ponsford ..................... Piano
Allen Porter ...................... Flute
Edwyl Redding ..................... Piano
Marion Summersvill ............ Voice
Marjorie Terry ................ Accordion
Marie Trece ....................... Voice
Georgia Ann Watkins ........ Flute

EMERITI

Horace J. Wubben, B.A., M.A., LL.D., President
Mary Raitt, B.A., M.A., Vice-President
Mattie F. Dorsey, B.A., M.A., Ph.D., Registrar
Elizabeth H. Cramer, B.A., M.A., Speech and Drama
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 administration and classroom building, Mesa College facilities include the new Science Building, Horace Whitten Hall, the new College Center Building; Mary Rait Hall, a women’s residence hall, and a men’s residence complex.

The administration and classroom building covers nearly one-half city block in area. It is an attractive two-story structure of modern design and houses the administrative offices, class and lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructors’ offices. Murri Memorial Library occupies a well-lighted room seating approximately 100 students. The book collection, which grows continuously, numbers approximately 16,000 volumes, for the most part arranged on open shelves. More than 180 periodicals are currently received.

Horace Whitten 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 190 capacity lecture and convocation hall equipped for the latest and most modern audio-visual and demonstration equipment. Approximately 80 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 recreation 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 adult night-school program.

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22. SHORTHAND THEORY (continued of SS 21) W. 4 hours.
A limited amount of dictation is given during this quarter. No credit will be given if student has high school credit. Class meets daily.

23. BEGINNING DICTIONARY FWS. 4 hours.
Review of the principles of shorthand. Dictation is given at the rate of 80 words. Machine transcription, with special attention to letter arrangement. Prerequisite: SS 22 or equivalent. SS 14 or enrollment in SS 14. Class meets daily.

31. INTERMEDIATE DICTION AND TRANSCRIPTION W. 4 hours.
A dictation speed of 90-100 words a minute is attained, with a markable transcript. Prerequisite: SS 23. Class meets daily.

32. ADVANCED DICTION AND TRANSCRIPTION S. 4 hours.
Continuation of dictation and transcription practice. Dictation at 110-120. Transcription at an acceptable office rate. Vocational vocabulary is studied. Prerequisite: SS 21. Class meets daily.

33. SECRETARIAL PRACTICE W. 3 hours.
The application of typing and shorthand to office situations. Business dress, business ethics, personality development. Prerequisite: Credit or enrollment in SS 23 and SS 14.

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.
### Secretarial Science

10. **BEGINNING TYPWRITING**
   
   **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 TYPWRITING (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 TYPWRITING**
   
   **FWS.** 2 hours.
   

15. **ADVANCED TYPWRITING**
   
   **W.** 2 hours.
   
   Study of tabulations, telegrams, and legal forms. Fundamental skills are developed on duplicating machines and transcription machines. Development of speed on varied material, rather than straight-copy work. Prerequisite: SS 14. Class meets daily.

21. **SHORTHAND THEORY**
   
   **F.** 4 hours.
   
   A course for those students with no previous knowledge of shorthand. No credit will be given if student has high school credit. Class meets daily.
tional choice to be selected when ready to leave Mesa, and will help plan transfer of credits or entrance into a vocation.

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

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

Representatives 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 in the new two-year ROTC 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 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 someone competent to answer their questions.

HEALTH AND INSURANCE SERVICES

Students entering Mesa College for the first time are required to present at the time of registration a certificate of good health signed by a family physician or a physician approved by the college. Ex- pense 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, 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

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15. WORD STUDY (Business) S. 2 hours.
   Continuation of Business 10.

21. 22. BUSINESS MACHINES (Business) FWS. 2 hours.
   Fundamental skills are developed in such machines as the ten-key adding machine, key-driven calculators, electric calculators, and posting machine. A student earns two hours for each machine completed. Class meets daily.

26. SALESMANSHIP F. 3 hours.
   Selling techniques developed. Psychological factors, initiative, and personality involved in influencing others in business transactions are studied.

32. INCOME TAX W. 3 hours.
   The tax law applied to individuals and small businesses.

36. PERSONAL FINANCE & MONEY MANAGEMENT S. 3 hours.
   A course designed to help those who want to do a better job of managing personal finances. The course will deal with the everyday financial problems that beset every man and woman, young or old. Financial problems of consumers will be studied.

39. INSURANCE S. 3 hours.
   A basic study of the common types of protection afforded by insurance including fire, life, automobile, accident, and health.

41. BUSINESS MATHEMATICS FWS. 4 hours.
   This course provides a review of the fundamentals of the various types of mathematical problems occurring in present day business. The course is required of those majoring in business. Class meets daily.

42. FILING F. 2 hours.
   Alphabetical, 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.
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 principles of double-entry bookkeeping, the balance sheet, profit and loss statements, controlling accounts, partnership accounting, opening corporation books, surplus, bonds, bond sinking funds, and managerial uses of financial statements. Class meets daily.

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

64. COST ACCOUNTING
F. 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 CORRESPONDENCE
FWS. 3 hours.
A study of the essentials of English in business communication. Letters of the business office are criticized, planned, prepared, and discussed. Prerequisite: 6 quarter hours English and a knowledge of typing.

10. WORD STUDY (Business)
F. 2 hours.
A study of words: their spelling, meaning, derivation, and pronunciation. Emphasis will be placed on business terms. Open to all students.

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Democratic student government. Student organizations and activities are listed and described in the handbook which is furnished to each student upon registration.

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

ENROLLMENT

Regular day-school enrollment for the Fall Quarter, 1963, consisted of a freshman class of 911 including 396 men and 515 women; the Sophomore class of 408 including 207 men and 201 women; and 13 additional graduate and special students for a total of 1,532 students. The geographical distribution of home towns for these students was as follows: 634 from the Mesa Junior College District; 638 from Colorado counties other than Mesa Junior College District; 57 from out of state; and 6 from foreign countries.

In addition the night-school program enrolled 263 part-time students taking degree credit courses and 256 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 1852 individuals during the Fall Quarter of 1963.

College-Community Relations

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

Weekly radio programs are broadcast over local radio stations in which students and faculty participate.

Book reviews, play readings, lectures, conferences, demonstrations and musical programs are presented at the college from time to time by members of the community, for the students and the public. The churches of Grand Junction all cooperate with the college in meeting the needs for religious education among the students. Opportunities include participation in student classes in Sunday Schools, young people's organizations, and in choirs.

Expenses at Mesa College

BOARD AND ROOM

Students living in the dormitories pay from $250 to $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 $1.65 per quarter 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

Textbooks, 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 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.

TUITION AND FEES

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<thead>
<tr>
<th></th>
<th>Application and Evaluation Fee (Non-refundable)</th>
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<tr>
<td>COLORADO RESIDENTS</td>
<td>Mesa College District</td>
<td>Out of District</td>
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<tr>
<td>Tuition</td>
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<tr>
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*Literature 61, 62, 63 is recommended for students planning to transfer to the University of Denver.*
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, filling clerks, business machine operators, and other types of business and office workers. A student is permitted to select, from a variety of courses, those which meet his own individual needs. Students may enroll for one or two years, depending on the amount of preparation needed or desired. The Associate in Arts degree, the Associate in Commerce degree or the Mesa College Diploma will be given those who complete the recommended curriculum. The services of the placement bureau are at the disposal of qualified students free of charge.

PROGRAMS

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

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

ASSOCIATE IN COMMERCE DEGREE

The Associate in Commerce is granted to two groups of graduates: (1) those who follow the accounting option and (2) those whose interests are in the secretarial field.

Each group must meet the general requirements for graduation as stated in page 27 and in addition complete the following special course requirements.

Social Science or Literature ....................................... 18 hours
Business Mathematics ........................................................ 4 hours
*College Mathematics and/or Science .................................... 2 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.

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(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 ........................................................... $150 per Quarter
Total .............................................................. $195 per Quarter

BOARD AND ROOM

Board only (7-day week) ............................................ $165 per Quarter
Board and Room
Men’s Dormitory ................................................ $255 per Quarter
Women’s Dormitories:
Mary Rait Hall (Double room) ................................... $225 per Quarter
Mary Rait Hall (Single room) .................................... $200 per Quarter
Bel-Air Dormitory (Double room) ............................... $200 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 $30 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 ................................................... 5.00

PART-TIME STUDENT FEES

Students taking a part-time course are charged a class fee of $5 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

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

Tuition and Fees

If a student withdraws within 14 days from the date of registration, two-thirds of the tuition, and two-thirds of the College Fee may be refunded. No refunds will be made after the 14th day from the date of registration.

Dormitory Deposit

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

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.

SCHOLARSHIPS AND AWARDS

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

JOINT HONOR SCHOLARSHIPS awarded to high school graduates may be used at Mesa College for one or two years and then trans-
ferred 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 184.

THE LIONS CLUB of several communities, in cooperation with the Grand Junction Lions Club, provide scholarship assistance for a number of students each year. Students may inquire of their local Lions Club regarding participation in this program.

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 Director of the nursing program.

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 Registrar.

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

Two local organizations, Mesa College Scholarship Development Fund, Inc., and Mesa College Athletic Boosters Club, conduct fund drives and sponsor special events to raise money for scholarships, grants-in-aid, and loan funds. The Scholarship Development Fund concerns itself primarily with raising new funds for academic scholarships and grants, and also serves as a clearing agency for many of the college's long-established scholarship funds. The Athletic Boosters Club, composed of former Mesa athletes and other interested citizens, has as its chief purpose the raising of funds for support of the athletic training table and athletic grants-in-aid.

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

The Raleigh B. and Raleigh James Flinders Loan Fund is a fund of $750 available to women students for short-term, small loans.

The Business and Professional Women Fund (B&PW) consists of $1000 which is to be 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 wo
men 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 was established in January 1964 by William H. Porter in honor of Mrs. Porter’s parents, Charles and Florence Kirkendall, who were long-time residents of Mesa County.

The Harry B. Goodwin Loan Fund of $7,000 is available on a revolving basis to graduates of Mesa College who need loans to continue their education.

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

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

EMPLOYMENT OPPORTUNITIES

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

Organization for Instruction

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

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

Business courses are offered to provide one or two years’ training in the 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.

GRAND JUNCTION, COLORADO

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. 5 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.
53. PHILOSOPHY OF AMERICAN DEMOCRACY  S. 3 hours.
A course which deals with the main political issues in American democracy presented in a philosophical context. Emphasis will be placed on contemporary issues, but attention will be given to historical factors. Lectures, discussion, and outside reading. Offered one evening a week.

SOCIOLOGY

61. GENERAL SOCIOLOGY  FW. 3 hours.
A survey of concepts in the study of sociology, acquainting students with terminology, basic principles involved, and important theoretical concepts. Includes a study of basic group relationships, ranging from family to world, with approaches from the standpoint of race, nationality, population factors, social mobility, ecology, and mass behavior patterns. The two quarters should be taken consecutively and 61 is prerequisite to 62.

63. SOCIAL PROBLEMS  S. 3 hours.
Introductory approach to some of the major social problems of the modern world, including crime, poverty, divorce, disease, mass conformity, political apathy, sub-standard housing, and mental health. Students prepare papers on special studies in addition to regular textbook assignments, discussions, and lectures. Prerequisite: Soc. 61 and 62.

44. MARRIAGE AND THE FAMILY  FWS. 3 hours.
The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family, efforts at stabilization, and the problem of adjustment to a changing society.

GEOGRAPHY

11. INTRODUCTION TO GEOGRAPHY  F. 3 hours.
This course is a basic survey of essentials of college geography, including vocabulary, basic principles and techniques.

12. ECONOMIC GEOGRAPHY  W. 3 hours.
The relationship of geographical factors to economic life of people in various world regions constitutes the emphasis of this course.

13. CULTURAL GEOGRAPHY  S. 3 hours.
A survey of world regional geography, with attention focused on social and behavioral patterns resulting from environment.

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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.

Two specialized programs are being developed for the opening of Fall Quarter, 1964. Both programs are two-year programs leading to the Associate Degree. One, 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. The second program is a curriculum in Midmanagement Technology. In addition to taking required academic subjects, students will spend part of their time working with managers and assistant managers of various business and industrial firms in the area in preparation for assuming responsibilities for positions of this type. The program is designed as a continuation and follow-up for students who have taken a Distributive Education program in high school; however, it is not restricted to such students.

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

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

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

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.

Physical Education

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

ADMISSION TO MESA COLLEGE

Admission to Mesa College is granted upon the filing of an application 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 application 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 higher education or has a college record and has attended a high school with no college record and has applied 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.

government and fiscal policies, money, banking and monetary policies, the economies 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 CIVILIZATION  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.

31. 22. 23. MODERN EUROPEAN HISTORY  FWS. 3 hours.

A survey course in the history of Europe since 1600 to 1789. Winter quarter: 1600-1763; Winter quarter: 1763-1785; Spring quarter: 1785-present.

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. 3 hours.

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

PHILOSOPHY

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

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

POLITICAL SCIENCE

11. 12. 13. AMERICAN GOVERNMENT  FWS. 3 hours.

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

11, 12. PHYSICAL GEOLOGY  F.W.  5 hours.
A study of the earth, its materials, the development of land forms and
the geologic processes involved. Diastrophic processes are con-
sidered 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.

PHYSICS

10. INTRODUCTION TO PHYSICS  S.  5 hours.
A course in physics consisting of lectures, demonstrations, discus-
sions, 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. GENERAL PHYSICS  F.W.S.  4 hours.
A course designed primarily for students taking pre-medicine or pre-
denistry. Fundamental principles and relationships are stressed.
The topics studied are mechanics, heat, electricity and magnetism,
sound, light and atomic physics. Three discussion and lecture peri-
ods and one three-hour laboratory period per week. Prerequisite:
Trigonometry.

51, 52. ENGINEERING PHYSICS  F.W.S.  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, elec-
tricity and magnetism, sound, light, and atomic physics. Both prin-
ciples and applications are stressed. Four lectures and discussion peri-
ods and one three-hour laboratory period per week. Note: Calculus
must be taken parallel with this course.

ECONOMICS

51, 52. PRINCIPLES OF ECONOMICS  F.W.S.  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,
those 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 four different dates usually in November, February, April and June. Summer testing is available at certain centers.

A $4 fee must be submitted with a registration form to the A.C.T. Regional Office 4 weeks prior to the date on which the student elects to take the test. Detailed information regarding testing centers, dates, and registration supplies will be available through high school principals or from the Registrar at Mesa College.

A residual testing program will be available in connection with Fall and Winter Registration for those students who do not take the tests during their senior year. These students will be required to take the tests during the Fall Registration Orientation program or, for the Winter Quarter, one day prior to registration in order that results will be available to students and their advisors during registration. The $4 testing fee will be collected from these students at the time 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 unaccredited 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


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

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.

CHEMISTRY

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

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

31, 32, 33. GENERAL CHEMISTRY AND QUALITATIVE 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 and 10A must be taken prior to, or concurrently with this course. Prerequisite: High school chemistry and satisfactory A.C.T. scores; or Chemistry 21.

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

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

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

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

61, 62. QUANTITATIVE ANALYSIS FWS. 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.
Physical Education

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

P.E.M. 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, gymnastics, volleyball, softball, baseball, track, wrestling, social dancing, folk and square dancing, bowling, skiing, and golf. Participating students provide their own personal equipment.

P.E.W. 11, 12, 13. PHYSICAL EDUCATION FOR WOMEN FWS. 1 hour.
P.E.W. Fall quarter includes such activities as tennis, volleyball, archery, ping pong, shuffleboard, bowling, and social dancing.

P.E.W. Winter quarter includes such activities as basketball, volleyball, badminton, tumbling, bowling, skiing, social and modern dancing.

P.E.W. Spring quarter includes such activities as softball, golf, archery, tennis, bowling, social dancing, and modern dance.

20. FIRST AID FWS. 2 hours.
This course includes standard and advanced First Aid procedures. Red Cross certification.

P.E. 42. INTRODUCTION TO PHYSICAL EDUCATION W. 3 hours.
A course to acquaint students with the background, growth, philosophy, and trends in physical education. Physical education's role in the development and adjustments of the individual, and the qualifications, responsibilities, and training of physical education teachers are given consideration.

P.E. 43. 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.

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

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.

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, 83 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 38 and 74 and, in the event that credit hours exceed 83, an overall average of C or better is required on all credit hours attempted.

3. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be $1.00.

4. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.

5. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.

6. Be in attendance upon the Commencement exercises of his class unless a petition of absence, properly filed, is submitted to the committee on attendance, is approved by that committee.

(Refer to page 38 for specific degree requirements.)

CERTIFICATES, DIPLOMAS, DEGREES

Mesa College grants a certificate, diploma, or degree, according to the type of curriculum selected by the student and upon completion of the specific requirements of each. These include completion cer-
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, MESA, 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.

22. NURSING OF CHILDREN AND ADULTS

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.

51. NURSING OF CHILDREN AND ADULTS

In these courses the student learns to care for patients of all ages presenting increasingly difficult nursing problems. Examples are: the care of patients requiring a variety of nursing measures and a high quality of knowledge and skill, care of groups of patients, direction of auxiliary workers, emergency situations, rehabilitative measures. Clinical experiences will be drawn from hospital and health agencies.

72. TRENDS IN NURSING

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

Individual music lessons are given in piano, voice, and most of the orchestral and band 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. 160), 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. 15, 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.

Nursing

This is a new program at Mesa College, initiated in September, 1963. It is approved by the Colorado Board of Nursing. Upon completion of the prescribed course of study, the graduate receives the Associate in Science degree and is eligible to take the examination for licensure as a Registered Nurse.

The purpose of the nursing curriculum is to prepare graduates to serve as registered nurses in first level staff nurse positions in hospitals, nursing homes, physicians' office, 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.

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.

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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

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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.

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.

27, 28, 29. INSTRUMENTAL ENSEMBLE FWS. 1/2 hour.

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

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

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

44, 45, 46. VOCAL ENSEMBLE FWS. 1/2 hour.

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

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. 1/2 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 FWS. 1/2 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.
Music

THEORY, HISTORY, AND EDUCATION

11. MUSIC FUNDAMENTALS F. 1 hour.
Designed for those students who have little previous knowledge of music. Among the topics studied are: Notation, scales, key signatures, harmony, and melody. Fundamentals of piano voice, and a description of orchestral instruments are presented.

12, 13. MUSIC EDUCATION METHODS WS. 1 hour.
A course planned for education majors. No previous musical training required. Philosophy of music education; review of music fundamentals; study of the child's voice; rhythm bands; methods of teaching note and note songs; treatment of non-singers; organization of music groups; teaching music appreciation to children.

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 FWS. 1 hour.
This course provides classroom instruction to beginners in woodwinds (Fall Quarter), brass (Winter Quarter), and bowed strings (Spring Quarter).

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 open to any student any quarter.

31, 32, 33. 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 form. 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.

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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.

GRAD 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; W, 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 WF for each course in which he is passing at the time of withdrawal, and a grade of UF 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.
51, 52. 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.

62. STATICS  
W  4 hours.
Topics include principles of statics, study of vectors (their resolution and composition), forces and couples, force systems and their resultants, force systems in equilibrium (truss analysis, flexible cables, cranes), static friction (pivot and belt), moments of inertia, and virtual work. Prerequisite: Math 51 and Physics 51, and to be taken concurrently with Math 52.

63. DYNAMICS  
S  4 hours.
Principles of dynamics. Topics include moments of areas, centroids, moments of inertia, radii of gyration of areas and masses, angular and linear displacement, velocity and acceleration of particles and rigid bodies in motion, simple vibrations, and applications of principles of force-mass-acceleration, work-kinetic energy, and impulse-momentum to solution of problems of force systems acting on moving particles and rigid bodies. Prerequisite: E. 62 and Math 52.

71, 72. SURVEYING AND MAPPING  
F WS  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, railroads, 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.
30. ANALYTIC GEOMETRY  
F., W. or S.  5 hours.
A standard course in analytic geometry without calculus; includes some three dimensional work. Prerequisite: Math 26. Class meets daily.

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

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.

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.

21. 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.
SCHOOL OF ARTS AND SCIENCES

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

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

PREPARATORY COURSES FOR FRESHMEN

All freshmen who register in the School of Arts and Sciences should meet the general education requirements of the Associate in Arts degree and, in addition, take the specific courses required by their particular major or minor. 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 freshman year.

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, 92 hours, including:

- Freshman English ........................................ 9 hours
- Social Science or Literature .......................... 8 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 .................. 8 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 .......... 30 hours
- Approved electives .................................. 33 hours

In arranging schedules, freshmen should register for English Composition, Physical Education, and at least one other, preferably two, of these five major courses. All approved electives must be transfer courses.

trigonometry. Prerequisites: Two courses in high school algebra and good Math entrance exam scores. Class meets three periods per week.

15. COLLEGE ALGEBRA  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.

16. COLLEGE ALGEBRA  W. 3 hours.
A continuation of Math 14 for the math or science major. Prerequisite: Math 14 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  S. 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  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.

21. COLLEGE TRIGONOMETRY  F. 2 hours.
Trigonometry for the well-prepared math or science student who can not take Math 28 (algebra and trig combined). Prerequisite: two courses in high school algebra, or Math 14. Class meets two periods per week.

22. COLLEGE TRIGONOMETRY  W. 2 hours.
A continuation of Math 24, which is prerequisite. Class meets two periods per week.

23. COLLEGE ALGEBRA AND TRIGONOMETRY  F. or W. 5 hours.
The standard course in freshman mathematics for the math or science student. 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.

25. 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.
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.

38. 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.

39. PREPARATION AND SERVICE OF MEALS  S. 3 hours.
Planning, preparing and serving family meals.

41. TAILORING  F. 3 hours.
Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Ec. 15, 16.

42. BASIC DRESS DESIGN  F. 3 hours.
Basic elements of design in theory and practice. Includes sketching, pattern making, 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.

43. CHILD DEVELOPMENT  FS. 3 hours.
Essentials of child psychology. Study of the growth and development of young children, with emphasis on understanding and guidance. Motor skills, intelligence, emotional patterns and social behavior, examined and related to the child's place in our society.

Mathematics and Engineering

MATHEMATICS

1. BASIC MATHEMATICS  F. 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.

9. COLLEGE ALGEBRA  F. or W. 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 I. Class meets daily.

14. COLLEGE ALGEBRA  F. 3 hours.
A course for students with good foundations in high school math. Math 28 is recommended for those who can take both algebra and

GRAND JUNCTION, COLORADO

TYPE CURRICULUMS

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

AGRICULTURE

AGRICULTURE SCIENCE

Associate in Science

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

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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<td>5</td>
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<td>Chemistry 22</td>
<td>3</td>
<td>Chemistry 12 W</td>
<td>3</td>
</tr>
<tr>
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<td>Mathematics 15</td>
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<td>Mathematics 16</td>
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<td>Physical Education</td>
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</table>
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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

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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</tbody>
</table>
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TERMINAL AGRICULTURE

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

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>English 11</td>
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<td>English 13</td>
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<tr>
<td>Art 14</td>
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<td>Art 16</td>
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SECOND YEAR

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<th>Spring Quarter</th>
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<td>Science 12</td>
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<td>Science 14</td>
</tr>
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PRE-DENTISTRY
Associate in Science

FIRST YEAR

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<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>English 11</td>
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</tr>
<tr>
<td>Chemistry 31</td>
<td>Chemistry 32</td>
<td>Chemistry 33</td>
</tr>
<tr>
<td>Mathematics 18 or 20</td>
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<tr>
<td>Speech 11</td>
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<tr>
<td>Orientation</td>
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SECOND YEAR

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<tr>
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<th>Spring Quarter</th>
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<tbody>
<tr>
<td>Physics 41</td>
<td>Physics 42</td>
<td>Physics 43</td>
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<tr>
<td>Chemistry 34 and 54</td>
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<td>Psychology 22</td>
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<td>1</td>
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<td></td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

EDUCATION
Refer to General Liberal Arts — Page 27

GRAND JUNCTION, COLORADO

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

12. NUTRITION
   W. 3 hours.
   The study of foods with emphasis on the use of food in the body, the planning of well-balanced meals, and the digestion and absorption of foods.

15. TEXTILES
   W. 5 hours.
   Study of textile fabrics and fibers with emphasis on selection, care and wearing qualities of clothing. Three hours lecture, four hours laboratory.

16. CLOTHING CONSTRUCTION
   S. 5 hours.
   Basic construction processes are studied and developed through the making of garments to meet individual needs. Two hours lecture, eight hours laboratory.

24. HOUSEHOLD MARKETING
   FS. 2 hours.
   Designed to develop intelligent buying practices and skill in making wise choices. Study of legislation affecting the consumer, organization of our marketing system, the influence of advertising, and how these influence our spending habits.

32. HOME MANAGEMENT
   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
   FW. 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
   FS. 2 hours.
   A continuation of the Introduction to Child Care. The course consists of practical laboratory observation and experience with preschool-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.
51, 52. 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 American 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 for the reading of current Spanish periodicals and to the practice of spoken and written Spanish. Prerequisite: two years high school Spanish or one year college Spanish. Open to freshmen who qualify.

Home Economics

1. ORIENTATION (Introduction To Home Economics) F. 1 hour.

An orientation course for Home Economics majors.

10. CLOTHING

FWS. 2 hours.

Basic clothing construction processes applied to the individual. Designed for those not majoring in Home Economics. Two hours lecture, four hours laboratory.

GRAND JUNCTION, COLORADO

ENGINEERING

Associate in Science

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
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<tr>
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<td>17</td>
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</tbody>
</table>

Students with weak backgrounds or a desire to start at a lower level should take some, or all of the following substitutions: Fall Quarter: Chemistry 22 instead of Chemistry 21, Math 11 or Math 12 in place of Math 20; English 4 and English 1 in place of English 11.

SECOND YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Quarter</th>
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<td>Physics 31</td>
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<td>Literature 31</td>
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</tbody>
</table>

Sophomore engineering students should consult with advisor regarding specific requirements of the engineering school of their choice. Where possible, Math 63 may be worked into the schedule for spring quarter.

GENERAL EDUCATION (Terminal)

Associate in Arts

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Quarter</th>
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<tbody>
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### GENERAL LIBERAL ARTS (Transfer)

**Associate in Arts**

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### HOME ECONOMICS (Transfer)

**Associate in Science**

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### GRAND JUNCTION, COLORADO

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

This course is concerned with the technical aspects of play production, such as scenery construction and painting, costume construction, lighting, properties and make-up. Hours are arranged for laboratory assignments.

**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.

**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 technique. The third quarter is an introduction to the directing of plays.

**51, 52, 53. DISCUSSION AND DEBATE** FW. 2 hours.

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

#### Foreign Language

The foreign language department operates a laboratory consisting of a monitoring console and fifteen student listening booths, each equipped with earphones, microphone, and a dual-channel tape recorder. 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.
poems as to form, and philosophy and later the individual student engages in evaluation of representative poetry. Open to freshmen and sophomores.

42. DRAMA  
S. 2 hours.
This course requires the reading of eight modern English, American, and European plays and the writing of one critical paper on the drama. Open to freshmen and sophomores.

44. ESSAY AND BIOGRAPHY  
S. 3 hours.
Representative writings in the essay, biography and autobiography serve to acquaint the student with the development and place in literature of these three literary types. A survey study of the essay through the years is made. The contributions of Collini, Franklin, Joyce, and Strachey are used to increase the student's knowledge and appreciation of biography and autobiography. Open to freshmen and sophomores.

51, 52, 53. SURVEY OF ENGLISH LITERATURE  
FWS. 3 hours.
A course in the development of English poetry and prose from Beowulf to the present. The literature is presented against its political and social backgrounds. This course is designed to meet the requirements of those planning to major in English literature. Prerequisite: English 12.

51, 62, 63. UNITED STATES LITERATURE  
FWS. 3 hours.
This course consisting of three quarters presents the development of American prose and poetry from the seventeenth century to the present. It aims to develop appreciation of literature and to increase the student's understanding of America as it is today through knowledge of the thought and culture of the past. Credit will be given for any single quarter. Prerequisite: English 12.

Speech

11. 12. FUNDAMENTALS OF SPEECH  
FWS. 3 hours.
The first quarter is a basic course in speech designed to aid the student in acquiring ease, pulse 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 DICTIOIN  
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.
### PRE-MEDICAL* Associate in Science

**FIRST YEAR**

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*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 40.

### MUSIC

**Associate in Arts**

**FIRST YEAR**

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### GRAND JUNCTION, COLORADO

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

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

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

The student is directed in practice designed to develop correctness and ease in written expression. Expository writing in the Fall Quarter, with emphasis on the form and content of critical and self analytical themes, is followed by practice in descriptive writing, the personal essay and foundations of fiction in the Winter Quarter; a study of the 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.

34. **MYTHOLOGY** F. 2 hours.

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

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

This study of five 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 basis 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
NURSING

Associate in Science

FIRST YEAR

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<th>Hours</th>
<th>Winter Quarter</th>
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SUMMER — Eight Weeks

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

SECOND YEAR

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*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 into the second year.

PRE-OPTOMETRY AND PRE-PHARMACY

Associate in Science

FIRST YEAR

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*Students with a deficiency in mathematics will replace the indicated courses with Math 10, Fall Quarter, Math 26, Winter Quarter, and Math 33, Spring Quarter.

SECOND YEAR* (Pre-Optometry)

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*Consult with counselor regarding Mathematics 31, 32, 33 for Optometry.

SECOND YEAR (Pre-Pharmacy)

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### PHYSICAL EDUCATION

**Associate in Arts**

**FIRST YEAR**

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### SOCIAL SCIENCE

**Associate in Arts**

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**SECOND YEAR**

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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
- Economics
- English
- Forestry
- Geology
- Government
- History
- Journalism
- Laboratory Technician
- Language
- Library Science
- Literature
- Mathematics
- Medical Technician
- Music Education
- Philosophy
- Physical Therapy
- Political Science
- Psychology
- Sociology
- Speech
- Pre-Veterinary
COURSES OF INSTRUCTION

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

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

Orientation

1. FRESHMAN ORIENTATION

Orientation is a one hour, one quarter course required of freshmen. It aids the student in his adjustment to college as it deals with study habits, time budget, relationship of curricular and cocurricular activities, social and personal adjustments. Students meet in small groups, with assigned faculty advisors for this course. Credit not intended for transfer.

Agriculture

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

1. AGRICULTURAL PROFESSION

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.

II. INTRODUCTORY ANIMAL HUSBANDRY

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. Four hours lecture and four hours laboratory per week.

33. FEED AND FEEDING
S. 5 hours.
Fundamentals of animal nutrition. Feeds and their uses. Calculation of rations to meet livestock requirements.

42. ECONOMIC ORGANIZATION OF AGRICULTURE
W. 5 hours.
A study of the history of economic forces as they relate to American agriculture; the role of agriculture in today’s economy; future economic prospects for agriculture; the scope of agricultural industry; and the relationships between government and agriculture.

56. SOILS
S. 5 hours.
A study of the formation, properties, and management of soils. Special attention is given to soil conditions that affect crop yields. Four hours lecture and three hours laboratory per week. Prerequisite: Chemistry 31 and 32, or Chemistry 21 and 22.

61. FORAGE CROPS
F. 4 hours.
A study of the production and preservation as hay or silage of the principle forage crops and cultivated grasses. Special attention is given to the production and maintenance of farm pastures. Prerequisite: Agriculture 22. Class meets daily.

62. GENERAL DAIRY HUSBANDRY
W. 3 hours.
A general course in dairying. History and present status of the dairy industry; starting dairy herds; breeds of dairy cattle; cow testing associations; club work; study of herd records; calf feeding; general principles of feeding, management and housing of dairy cattle. Prerequisite: Agriculture 11. Open to sophomore students. Two class periods and one laboratory period per week.

63. FARM AND GARDEN INSECTS
W. 3 hours.
Elementary anatomy and physiology of insects. A study of the life histories, and habits of the more important insect pests and recommendations for controlling them. Prerequisite: Zoology, five hours. Two class periods and one laboratory period per week.
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

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

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

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

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

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.
HISTORY OF ART
FWS. 3 hours.
A survey of art of all ages reflecting the various cultures of man
kind from the prehistoric to the present.

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 informa-
tion 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, prob-
lems of interior decoration, elements of photography and other sim-
ilar topics.

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.

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.

APPLIED DESIGN
PWS. 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.

OIL PAINTING AND COMPOSITION
FWS. 2 hours.
Composition is stressed in creative problems, understanding of light
and dark masses 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.

Biology
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 gen-
eral college botany or zoology. Two lectures and one laboratory per-
iod each week.

HUMAN ANATOMY AND PHYSIOLOGY
Fall 5 hours.
Winter 3 hours.
A study of the structure and function of the human body. Open to
all students but designed especially for majors in nursing.

COURSES OF INSTRUCTION

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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, His-
tory 59 is a course number and United States History is the correspon-
ding course title.

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

Orientation

1. FRESHMAN ORIENTATION
FW. 1 hour.
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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
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select. This selection is to be made after consultation with a faculty ad-
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fields of study. The opportunities as well as responsibilities associ-
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as well as when employed in one of the professions.

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**Associate in Arts**

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### SOCIAL SCIENCE

**Associate in Arts**

#### FIRST YEAR

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### GRAND JUNCTION, COLORADO

#### 21, 22, 23. GENERAL BOTANY

**W.S. 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 the algae, fungi, mosses, ferns, gymnosperms, and angiosperms during the winter quarter. Study of plant classification during spring quarter. A course for agriculture, veterinary, forestry, pre-medical, home economics, and botany majors. Prerequisites for spring quarter are previous two quarters or consent of the instructor. Three lectures and two laboratories per week.

#### 21, 22. GENERAL ZOOLOGY

**W.S. 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 fight of living. The course is based upon the following units: personal hygiene; mental hygiene, and environmental hygiene. The study consists of lectures, collateral reading, and term themes.

#### 51. COMPARATIVE VERTEBRATE ANATOMY

**F. 5 hour.**

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: 3 hours biology, or zoology.

#### 53. 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: 3 hours biology, botany, or zoology.
English

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

2. STUDY SKILLS FW. 1 hour.
This course is provided for students interested in improving reading efficiency and developing good study habits. Emphasis is placed on rate of reading, comprehension, vocabulary building, note taking, and the learning of techniques of concentration. Recommended for foreign students, for students who have had English 611, and those who have not been in school for a considerable length of time. Credit not intended for transfer nor for Associate degree.

3. READING IMPROVEMENT FW. or S. 1 hour.
This developmental reading course is offered for students who wish to increase the effectiveness of their reading. It offers exercises to improve mechanical skills of reading and develops secondary skills and habits of thought necessary to efficient reading at higher levels. Credit not intended for transfer nor for Associate degree.

4. PRE-FRESHMAN ENGLISH FW. 3 hours.
This is a remedial course stressing correct sentence structure, spelling, vocabulary, and reading. Entering Freshmen who fail to make satisfactory scores on the American College Test will be required to take this course and to pass a standardized test of college level before enrolling in English 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.

GRAND JUNCTION, COLORADO

NURSING Associate in Science
FIRST YEAR

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

SECOND YEAR

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-Each nursing course includes laboratory (clinical experience). For example, Nursing 21 consists of two class hours and two three-hour laboratory periods per week. The proportion of laboratory to class time increases as the student progresses into the second year.

PRE-OPTOMETRY AND PRE-PHARMACY

Associate in Science
FIRST YEAR

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-Consult with counselor regarding Mathematics 31, 32, 33 for Optometry.

SECOND YEAR (Pre-Pharmacy)

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### PRE-MEDICAL

**Associate in Science**

**FIRST YEAR**

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**SECOND YEAR**

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| Total | 12   | 17   | 17   |

*It is recommended that pre-medical students work toward a major in either biology or chemistry. Those electing the chemistry major should follow the mathematics sequence outlined for the science and engineering major on page 2.*

### MUSIC

**Associate in Arts**

**FIRST YEAR**

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| Total | 15   | 17   | 17   |

**SECOND YEAR**

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### GRAND JUNCTION, COLORADO

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

**FWS. 2-3 hours.**

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

#### 51, 52, 53. CREATIVE WRITING

**FWS. 3 hours.**

The student is directed in practice designed to develop correctness and ease in written expression. Expository writing in the Fall Quarter, with emphasis on the form and content of critical and self analytical themes, 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, Milliere, Pushkin and others.

#### 34. MYTHOLOGY

**F. 2 hours.**

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

#### 41. FICTION

**F. 2 hours.**

This study of five 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 basis for independent evaluation.

Note: The series 41, 42, 43 and 44 will fulfill the 2-year literature requirement for graduation.

#### 42. POETRY

**W. 2 hours.**

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

43. DRAMA S. 2 hours.
This course requires the reading of eight modern English, American, and European plays and the writing of one critical paper on the drama. Open to freshmen and sophomores.

44. ESSAY AND BIOGRAPHY S. 3 hours.
Representative writings in the essay, biography and autobiography serve to acquaint the student with the development and place in literature of these three literary types. A survey study of the essay through the years is made. The contributions of Collini, Franklin, Joyce, and Strachey are used to increase the student’s knowledge and appreciation of biography and autobiography. Open to freshmen and sophomores.

51, 52, 53. SURVEY OF ENGLISH LITERATURE FWS. 3 hours.
A course in the development of English poetry and prose from Beowulf to the present. The literature is presented against its political and social backgrounds. This course is designed to meet the requirements of those planning to major in English literature. Prerequisite: English 12.

51, 62, 63. UNITED STATES LITERATURE FWS. 3 hours
This course consisting of three quarters presents the development of American prose and poetry from the seventeenth century to the present. It aims to develop appreciation of literature and to increase the student’s understanding of America as it is today through knowledge of the thought and culture of the past. Credit will be given for any single quarter. Prerequisite: English 12.

Speech

11, 12. FUNDAMENTALS OF SPEECH FWS. 3 hours.
The first quarter is a basic course in speech designed to aid the student in acquiring ease, poise and effectiveness in speaking. Emphasis is placed on platform behavior, diction, delivery and speech organization. The second quarter places emphasis on the organization and delivery of various types of speeches.

13. ORAL INTERPRETATION S. 3 hours.
This course places emphasis on the oral reading of prose, poetry and drama in an expressive and artistic manner. Diction, quality of tone and meaning of material receive special attention. Prerequisite: Speech 11 or permission of instructor.

16. VOICE AND DICTION S. 3 hours
A study of the development and use of the speaking voice with emphasis on voice placement, speech sounds and the phonetic alphabet.

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GRAND JUNCTION, COLORADO

HOMEMAKING (Terminal)
Mesa College Diploma

FIRST YEAR

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PRE-LAW*

Associate in Arts

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*Recommended Electives: Accounting or Economics.
GENERAL LIBERAL ARTS (Transfer)

Associate in Arts

FIRST YEAR

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HOME ECONOMICS (Transfer)

Associate in Science

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GRAND JUNCTION, COLORADO

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

This course is concerned with the technical aspects of play production, such as scenery construction and painting, costume construction, lighting, properties and make-up. Hours are arranged for laboratory assignments.

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.

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.

51, 52, 53. DISCUSSION AND DEBATE  FW. 2 hours.

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

Foreign Language

The foreign language department operates a laboratory consisting of a monitoring console and fifteen student listening booths, each equipped with earphones, microphone, and a dual-channel tape recorder. 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  
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  
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, 53, 55. SECOND YEAR GERMAN  
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  
Emphasis is given to the oral approach in learning to understand and speak Spanish of medium difficulty. The pronunciation and culture of Spanish American 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  
This course is designed to acquaint the student with representative works of Spain, Mexico, and South America. Considerable time is given to the reading of current Spanish periodicals and to the practice of spoken and written Spanish. Prerequisite: two years high school Spanish or one year college Spanish. Open to freshmen who qualify.

Home Economics
1. ORIENTATION (Introduction To Home Economics)  F. 1 hour.
An orientation course for Home Economics majors.
19. CLOTHING  FWS. 3 hours.
Basic clothing construction processes applied to the individual. Designed for those not majoring in Home Economics. Two hours lecture, four hours laboratory.

ENGINEERING
Associate in Science
FIRST YEAR
Fall Quarter \hspace{1cm} Hours \hspace{1cm} Winter Quarter \hspace{1cm} Hours \hspace{1cm} Spring Quarter \hspace{1cm} Hours
English 11 \hspace{1cm} 3 \hspace{1cm} English 12 \hspace{1cm} 3 \hspace{1cm} English 13 \hspace{1cm} 3
Mathematics 10 \hspace{1cm} 3 \hspace{1cm} Mathematics 10 \hspace{1cm} 3 \hspace{1cm} Mathematics 10 \hspace{1cm} 3
Chemistry 21 \hspace{1cm} 3 \hspace{1cm} Chemistry 21 \hspace{1cm} 3 \hspace{1cm} Chemistry 21 \hspace{1cm} 3
Physics 11 \hspace{1cm} 3 \hspace{1cm} Physics 11 \hspace{1cm} 3 \hspace{1cm} Physics 11 \hspace{1cm} 3
Engineering 11 \hspace{1cm} 3 \hspace{1cm} Engineering 11 \hspace{1cm} 3 \hspace{1cm} Engineering 11 \hspace{1cm} 3
Engineering 12 \hspace{1cm} 3 \hspace{1cm} Engineering 12 \hspace{1cm} 3 \hspace{1cm} Engineering 12 \hspace{1cm} 3
Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1

SECOND YEAR
Fall Quarter \hspace{1cm} Hours \hspace{1cm} Winter Quarter \hspace{1cm} Hours \hspace{1cm} Spring Quarter \hspace{1cm} Hours
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Physics 12 \hspace{1cm} 4 \hspace{1cm} Physics 12 \hspace{1cm} 4 \hspace{1cm} Physics 12 \hspace{1cm} 4
Chemistry 22 \hspace{1cm} 2 \hspace{1cm} Chemistry 22 \hspace{1cm} 2 \hspace{1cm} Chemistry 22 \hspace{1cm} 2
Physics 13 \hspace{1cm} 2 \hspace{1cm} Physics 13 \hspace{1cm} 2 \hspace{1cm} Physics 13 \hspace{1cm} 2
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Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1

Sophomore engineering students should consult with advisors regarding specific requirements of the engineering school of their choice. Where possible, Math 11 may be worked into the schedule for Spring Quarter.

GENERAL EDUCATION (Terminal)
Associate in Arts
FIRST YEAR
Fall Quarter \hspace{1cm} Hours \hspace{1cm} Winter Quarter \hspace{1cm} Hours \hspace{1cm} Spring Quarter \hspace{1cm} Hours
English 11 \hspace{1cm} 3 \hspace{1cm} English 12 \hspace{1cm} 3 \hspace{1cm} English 13 \hspace{1cm} 3
Foreign Language \hspace{1cm} 3 \hspace{1cm} Foreign Language \hspace{1cm} 3 \hspace{1cm} Foreign Language \hspace{1cm} 3
Geography \hspace{1cm} 1 \hspace{1cm} Geography \hspace{1cm} 1 \hspace{1cm} Geography \hspace{1cm} 1
Music 24 \hspace{1cm} 1 \hspace{1cm} Music 24 \hspace{1cm} 1 \hspace{1cm} Music 24 \hspace{1cm} 1
Psychology 21 \hspace{1cm} 1 \hspace{1cm} Psychology 21 \hspace{1cm} 1 \hspace{1cm} Psychology 21 \hspace{1cm} 1
Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1 \hspace{1cm} Physical Education \hspace{1cm} 1

SECOND YEAR
Fall Quarter \hspace{1cm} Hours \hspace{1cm} Winter Quarter \hspace{1cm} Hours \hspace{1cm} Spring Quarter \hspace{1cm} Hours
History \hspace{1cm} 3 \hspace{1cm} History \hspace{1cm} 3 \hspace{1cm} History \hspace{1cm} 3
Science \hspace{1cm} 3 \hspace{1cm} Science \hspace{1cm} 3 \hspace{1cm} Science \hspace{1cm} 3
Elective \hspace{1cm} 1 \hspace{1cm} Elective \hspace{1cm} 1 \hspace{1cm} Elective \hspace{1cm} 1
Literature \hspace{1cm} 3 \hspace{1cm} Literature \hspace{1cm} 3 \hspace{1cm} Literature \hspace{1cm} 3

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 21; Math 10 in place of Math 10; English 4 in place of English 3.

Students eligible for advanced placement or accelerated programs may take Math 11 in place of Math 10 and may take Engineering 12 in place of Engineering 11.
11. COSTUME SELECTION  
FS. 2 hours.
The relationship of the principles of design to the planning and selection of clothing. Two hours lecture.

12. NUTRITION  
W. 3 hours.
The study of foods with emphasis on the use of food in the body, the planning of well-balanced meals, and the digestion and absorption of foods.

15. TEXTILES  
W. 5 hours.
Study of textile fabrics and fibers with emphasis on selection, care and wearing qualities of clothing. Three hour lecture, four hour laboratory.

16. CLOTHING CONSTRUCTION  
S. 5 hours.
Basic construction processes are studied and developed through the making of garments to meet individual needs. Two hour lecture, eight hour laboratory.

24. HOUSEHOLD MARKETING  
FS. 2 hours.
Designed to develop intelligent buying practices and skill in making wise choices. Study of legislation affecting the consumer, organization of our marketing system, the influence of advertising, and how these influence our spending habits.

32. HOME MANAGEMENT  
FS. 3 hours.
Study of family living problems with emphasis on management, child care, personal and family relationships. Three hour 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  
FW. 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  
FS. 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. 24.

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 hour 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.

38. 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.

52. PREPARATION AND SERVICE OF MEALS S. 3 hours.
Planning, preparing and serving family meals.

61. TAILORING F. 3 hours.
Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Ec. 15, 16.

64. BASIC DRESS DESIGN F. 3 hours.
Basic elements of design in theory and practice. Includes sketching, patterning, and draping, followed by making of garment of original design. Two hours lecture, four hours laboratory. Prerequisite: Home Ec. 10 and 15 or consent of instructor.

71. CHILD DEVELOPMENT FS. 3 hours.
Essentials of child psychology. Study of the growth and development of young children, with emphasis on understanding and guidance. Motor skills, intelligence, emotional patterns and social behavior, examined and related to the child's place in our society.

Mathematics and Engineering

MATHEMATICS

1. BASIC MATHEMATICS F. 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. or W. 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.

14. COLLEGE ALGEBRA F. 3 hours.
A course for students with good foundations in high school math. Math 28 is recommended for those who can take both algebra and
SCHOOL OF ARTS AND SCIENCES

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

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

PREPARATORY COURSES FOR FRESHMEN

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

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

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, 99 hours, including:
- Freshmen English
- Social Science or Literature
- Physical Education

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

Specific Requirements for the ASSOCIATE IN ARTS DEGREE

- Physical Science
- History or other social science
- Literature
- Biology or Psychology
- Approved electives

Specific Requirements for the ASSOCIATE IN SCIENCE DEGREE

- Laboratory science and mathematics
- Approved electives

- 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 transferable courses.

*Specific requirements for the Associate in Commerce Degree may be found on pages 24 and 35. Students majoring in professional nursing or other technical-vocational programs must complete courses of study as prescribed for the respective programs in addition to the above general graduation requirements.

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15. COLLEGE ALGEBRA

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.

16. COLLEGE ALGEBRA

W. 3 hours.

A continuation of Math 14 for the math or science major. Prerequisite: Math 14 or equivalent. Class meets three periods per week.

17. DATA PROCESSING MATH.

W. 2 hours.

To be taken concurrently with Math 23 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

S. 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

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 15 or Math 14.

24. COLLEGE TRIGONOMETRY

F. 2 hours.

Trigonometry for the well prepared math or science student who can not take Math 28 (algebra and trig combined). Prerequisite: two courses in high school algebra, or Math 14. Class meets two periods per week.

26. COLLEGE TRIGONOMETRY

W. 2 hours.

A continuation of Math 24, which is prerequisite. Class meets two periods per week.

28. COLLEGE ALGEBRA AND TRIGONOMETRY

F. or W. 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 15. Class meets daily.

29. COLLEGE ALGEBRA AND TRIGONOMETRY

F. or W. 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 exam. 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, 55, 53. **DifferentIal and Integral Calculus**  
FWS.  5 hours.

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.

**Engineering**

11. **Engineering Drawing**  
F.  3 hours.
A course for students with little background in mechanical drawing and who lack the basic fundamentals of drawing necessary for working with the spatial 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 spatial 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.

21. **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.
31, 52, 53. ADVANCED TECHNICAL DRAWING

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.

62. STATICS

Topics include principles of statics, study of vectors (their resolution and composition), forces and couples, force systems and their resultant, force systems in equilibrium (tains 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

Principles of dynamics. Topics include moments of areas, centroids, moments of inertia, radius of gyration of areas and masses, angular and linear displacement, velocity and acceleration of particles and rigid bodies in motion, simple vibrations, and application 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

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

One lecture-recitation and two laboratory periods per week. The course includes surveying and mapping methods including control survey, 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

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

THEORY, HISTORY, AND EDUCATION

11. MUSIC FUNDAMENTALS  F. 1 hour.
Designated for those students who have little previous knowledge of music. Among the topics studied are: Notation, scales, key signatures, harmony, and melody. Fundamentals of piano and voice, and a description of orchestral instruments are presented.

12. MUSIC EDUCATION METHODS  WS. 1 hour.
A course planned for education majors. No previous musical training required. Philosophy of music education; review of music fundamentals; study of the child's voice; rhythm bands; methods of teaching tone and note songs; treatment of non-singers; organization of music groups; teaching music appreciation to children.

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  FWS. 1 hour.
This course provides classroom instruction to beginners in woodwinds (Fall Quarter), brass (Winter Quarter), and bowed strings (Spring Quarter).

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 open to any student any quarter.

31, 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.

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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 TP 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.
a few special and part-time students. Eighteen hours is the maximum load that 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 intellectual 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 scheduled time and place in order to receive credit in a course. Mid-term

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67. 68. 69. CONDUCTING

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 sophomore students.

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. 1½ hour.

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

41. 42. 43. SYMPHONY ORCHESTRA

FWS. 1½ hour.

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

44. 45. 46. VOCAL ENSEMBLE

FWS. 1½ hour.

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

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. 1½ 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. 1½ 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 band 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. 16), 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, 15, 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.

Nursing

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

The purpose of the nursing curriculum is to prepare graduates to serve as registered nurses in first level (staff nurse) positions in hospitals, nursing homes, physicians' office, 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.

11. FUNDAMENTALS OF NURSING

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.

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
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 60 academic hours, plus six hours of physical education, for most higher institutions.

Students who earn more than 60 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.

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22. NURSING OF CHILDREN AND 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.

32. 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 of mothers 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.

40. 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. 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; 13 laboratory hours.

63. PROBLEMS IN NURSING

S. 8 hours.
In this course the student learns to solve increasingly complex nursing problems such as may confront her as a graduate nurse. Examples are: the care of patients requiring a variety of nursing measures and a high quality of knowledge and skill: care of groups of patients; direction of auxiliary workers; emergency situations; rehabilitative measures. Clinical experiences will be drawn from hospital and health agencies.

73. TRENDS IN NURSING

S. 2 hours.
Although the historical heritage of nursing will be considered throughout the program, this course will bring together the past development of the profession, its current situation, and the way these may influence its future development. Each student will be encouraged and assisted to find her own role in nursing.
Physical Education

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

PEM 11, 12, 13. PHYSICAL EDUCATION FOR MEN FWS. 1 hour.
Activities vary according to season and include one or more of the following: tennis, football, basketball, touch-football, baseball, volleyball, softball, archery, bowling, 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, basketball, softball, bowling, and social dancing.
PEW 12. Winter quarter includes such activities as basketball, volleyball, badminton, bowling, archery, tennis, and social dancing.
PEW 13. Spring quarter includes such activities as softball, archery, tennis, bowling, and social dancing.

20. FIRST AID FWS. 2 hours.
This course includes standard and advanced First Aid procedures. Red Cross certification.

P.E. 42. INTRODUCTION TO PHYSICAL EDUCATION W. 3 hours.
A course to acquaint students with the background, growth, philosophy, and trends in physical education. Physical education's role in the development and adjustments of the individual, and the qualifications, responsibilities, and training of physical education teachers are given consideration.

P.E. 43. 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.

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 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.

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 39 and 74 and, in the event that credit hours exceed 93, an overall average of C or better is required on all credit hours attempted.

3. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be $1.00.
4. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
5. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.
6. Be in attendance upon the Commencement exercises of his class unless a petition of absence, properly made by him to the committee on graduation, is approved by that committee.

(Refer to page 38 for specific degree requirements.)

CERTIFICATES, DIPLOMAS, DEGREES

Mesa College grants a certificate, diploma, or degree, according to the type of curriculum selected by the student and upon completion of the specific requirements of each. These include completion cer-
CHEMISTRY

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

Lectures and laboratory. Fundamental principles of general inorganic chemistry and application in science and society; atomic structure; periodic tables; gas laws; metallic and non-metallic elements and their principle compounds. The third quarter is largely an introduction to Organic and Physical 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.

31, 32, 33. 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 31, 32, 33. 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.
GEOLGY

11. 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.

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
FW. S. 4 hours.

A course designed primarily for students taking pre-medicine or pre-dentistry. Fundamental principles and relationships are stressed. The topics studied are mechanics, heat, electricity and magnetism, sound, light and atomic physics. Three discussion and lecture periods and one three-hour laboratory period per week. Prerequisite: Trigonometry.

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

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

Social Science

ECONOMICS

51, 52, 53. PRINCIPLES OF ECONOMICS
FW. S. 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,

tion 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 Laws 550 and 694.

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

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

NOTE—Students who wish to qualify for Veterans Administration benefits (P.L. 550 or 694) 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
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 at the college office 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 high school record properly filed 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 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 college 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.

GRAND JUNCTION, COLORADO

government and fiscal policies, money, banking and monetary policies, the economies 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 
21, 22, 23. MODERN EUROPEAN HISTORY
31, 32, 33. UNITED STATES HISTORY
41, 42, 43. CURRENT HISTORY

A survey course in the history of Europe since 1500. Fall quarter: 1500-1789; Winter quarter: 1789-1870; Spring quarter: 1870-present.

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 1 to the present.

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 developments, 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.

PHILOSOPHY

51. INTRODUCTION TO PHILOSOPHY

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

POLITICAL SCIENCE

11, 12, 13. AMERICAN GOVERNMENT

A course which treats the framework and functions of local, state, and national government. An attempt is made to bring into relief the contemporary scene, economic and social, within which the government operates and within which the student will be called upon to perform the duties of citizenship.
55. PHILOSOPHY OF AMERICAN DEMOCRACY  S.  3 hours.
A course which deals with the main political issues in American democracy presented in a philosophical context. Emphasis will be placed on contemporary issues, but attention will be given to historical factors. Lectures, discussion, and outside reading. Offered one evening a week.

SOCIOLOGY

61. 62. GENERAL SOCIOLOGY  FW.  3 hours.
A survey of concepts in the study of sociology, acquainting students with terminology, basic principles involved, and important theoretical concepts. Includes a study of basic group relationships, ranging from family to world, with approaches from the standpoint of race, nationality, population factors, social mobility, ecology, and mass behavior patterns. The two quarters should be taken consecutively and 61 is prerequisite to 62.

63. SOCIAL PROBLEMS  S.  3 hours.
Introductory approach to some of the major social problems of the modern world, including crime, poverty, divorce, disease, mass conformity, political apathy, sub-standard housing, and mental health. Students prepare papers on special studies in addition to regular textbook assignments, discussions, and lectures. Prerequisite: Soc. 61 and 62.

44. MARRIAGE AND THE FAMILY  FWS.  3 hours.
The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family, efforts at stabilization, and the problem of adjustment to a changing society.

GEOGRAPHY

11. INTRODUCTION TO GEOGRAPHY  F.  3 hours.
This course is a basic survey of essentials of college geography, including vocabulary, basic principles and techniques.

12. ECONOMIC GEOGRAPHY  W.  3 hours.
The relationship of geographical factors to economic life of people in various world regions constitutes the emphasis of this course.

13. CULTURAL GEOGRAPHY  S.  3 hours.
A survey of world regional geography, with attention focused on social and behavioral patterns resulting from environment.

GRAND JUNCTION, COLORADO

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 programs are available upon request.

Two other technical-terminal programs are being developed for the opening of Fall Quarter, 1964. Both are two-year programs leading to the Associate Degree. One, 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 routine receptionist duties, these young women will be taught to perform routine laboratory tests normally done in these offices. The second program is a curriculum in Midmanagement Technology. In addition to taking required academic subjects, students will spend part of their time working with managers and assistant managers of various business and industrial firms in the area in preparation for assuming responsibilities for positions of this type. The program is designed as a continuation and follow-up for students who may have taken a Distributive Education program in high school; however, it is not restricted to such students.

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

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

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

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.

Physical Education

Mesa College carries out a full program of Physical Education for men and women and participates in a three-quarter schedule of intra- and extra-mural athletic sports. Students are encouraged to take advantage of the opportunity to engage in intercollegiate games but eligibility regulations are strictly enforced and only bona fide students are permitted to participate. The program consists of football, basketball, wrestling, baseball, tennis and track for the respective quarters. Intra-mural activities provide for participation by a large number of students.
man 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 was established in January 1964 by William H. Porter in honor of Mrs. Porter's parents, Charles and Florence Kirkendall, who were lifelong residents of Mesa County.

The Harry B. Goodwin Loan Fund of $7,000 is available on a revolving basis, to graduates of Mesa College who need loans to continue their education.

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

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

EMPLOYMENT OPPORTUNITIES

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

Organization for Instruction

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

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

Business courses are offered to provide one or two years' training in the 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.

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, group factors in personality, and social and vocational adjustment.

35. 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.
FERRED 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 184.

THE LIONS CLUB of several communities, in cooperation with the Grand Junction Lions Club, provide scholarship assistance for a number of students each year. Students may inquire of their local Lions Club regarding participation in this program.

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 Director of the nursing program.

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 Registrar.

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

Two local organizations, Mesa College Scholarship Development Fund, Inc., and Mesa College Athletic Boosters Club, conduct fund drives and sponsor special events to raise money for scholarships, grants-in-aid, and loan funds. The Scholarship Development Fund concerns itself primarily with raising new funds for academic scholarships and grants, and also serves as a clearing agency for many of the college’s long-established scholarship funds. The Athletic Boosters Club, composed of former Mesa athletes and other interested citizens, has as its chief purpose the raising of funds for support of the athletic training table and athletic grants-in-aid.

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

The Raleigh B. and Raleigh James Flanders Loan Fund is a fund of $750 available to women students for short-term, small loans.

The Business and Professional Women Fund (B&PW) consists of $1,000 which is to be 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 wo-
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

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

Tuition and Fees

If a student withdraws within 14 days from the date of registration, two-thirds of the tuition, and two-thirds of the College Fee may be refunded. No refunds will be made after the 14th day from the date of registration.

Dormitory Deposit

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

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.

SCHOLARSHIPS AND AWARDS

For many years Mesa College has followed the policy of awarding a FRESHMAN SCHOLARSHIP to a graduating senior from each Western College 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 trans-
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 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, filling clerks, business machine operators, and other types of business and office workers. A student is permitted to select, from a variety of courses, those which meet his own individual needs. Students may enroll for one or two years, depending on the amount of preparation needed or desired. The Associate in Arts degree, the Associate in Commerce degree or the Mesa College Diploma will be given those who complete the recommended curriculum. The services of the placement bureau are at the disposal of qualified students free of charge.

PROGRAMS

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

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

ASSOCIATE IN COMMERCE DEGREE

The Associate in Commerce is granted to two groups of graduates: (1) those who follow the accounting option and (2) those whose interests are in the secretarial field.

Each group must meet the general requirements for graduation as stated in page 27 and in addition complete the following special course requirements:

<table>
<thead>
<tr>
<th>Social Science or Literature</th>
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<tr>
<td></td>
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<td>18 hours</td>
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<table>
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<tr>
<th>Business Mathematics</th>
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<td>4 hours</td>
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<table>
<thead>
<tr>
<th>College Mathematics and/or Science</th>
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<tr>
<td>9 hours</td>
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<tr>
<th>Business Machines</th>
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<td>2 hours</td>
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Additional special requirements for those in the Accounting option include:

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<tr>
<th>Accounting (Principles)</th>
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<tr>
<td>9 hours</td>
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<table>
<thead>
<tr>
<th>Business Law</th>
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<tr>
<td>6 hours</td>
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<tr>
<th>Business Correspondence</th>
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<td>3 hours</td>
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Additional special requirements for those in the Secretarial option include:

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<tr>
<th>Business Law</th>
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<td>3 hours</td>
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<tr>
<th>Intermediate and Advanced Typewriting</th>
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<tr>
<td>4 hours</td>
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<thead>
<tr>
<th>Beginning Dictation</th>
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<tr>
<td>4 hours</td>
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<tr>
<th>Secretarial Practice</th>
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<td>3 hours</td>
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<table>
<thead>
<tr>
<th>Secretarial Accounting or equivalent</th>
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<td>3 hours</td>
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<table>
<thead>
<tr>
<th>Business Correspondence</th>
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<td>3 hours</td>
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*This requirement may include Home Economics 12, 15, 51, 52, 53, and General Biology for terminal students.

GRAND JUNCTION, COLORADO

(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

<table>
<thead>
<tr>
<th>College Fee (See above)</th>
<th>$ 65 per Quarter</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$130 per Quarter</td>
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<tr>
<td>Total</td>
<td>$195 per Quarter</td>
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BOARD AND ROOM

<table>
<thead>
<tr>
<th>Board only (7-day week)</th>
<th>$105 per Quarter</th>
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<tbody>
<tr>
<td>Board and Room</td>
<td></td>
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<tr>
<td>Men's Dormitory</td>
<td>$255 per Quarter</td>
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<tr>
<td>Women's Dormitories:</td>
<td></td>
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<tr>
<td>Mary Rait Hall (Double room)</td>
<td>$250 per Quarter</td>
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<tr>
<td>Mary Rait Hall (Single room)</td>
<td>$200 per Quarter</td>
</tr>
<tr>
<td>Del-Air Dormitory (Double room)</td>
<td>$250 per Quarter</td>
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</table>

PRIVATE AND SPECIAL INSTRUCTIONAL FEES

Where private and special instructional services are required additional charge will be incurred by the student. These fees are payable in advance to the instructors and vary with the type 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 $8 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.
PROFESSIONAL PROGRAMS

BUSINESS ADMINISTRATION

Associate in Arts

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Quarter</th>
<th>Hours</th>
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<tbody>
<tr>
<td>English 11</td>
<td>3</td>
<td>English 12</td>
<td>3</td>
<td>English 13</td>
<td>3</td>
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<td>Math. 10 or 20</td>
<td>3</td>
<td>Math. 11</td>
<td>3</td>
<td>Math. 12</td>
<td>3</td>
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<tr>
<td>Chem. or Geol.</td>
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<td>Chem. or Geol.</td>
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<td>Chem. or Geol.</td>
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<td>Elective 1</td>
<td>4</td>
<td>Elective 2</td>
<td>4</td>
<td>Elective 3</td>
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<td>Physical Edu. 1</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
<th>Hours</th>
<th>Spring Quarter</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Accounting 21</td>
<td>3</td>
<td>Accounting 32</td>
<td>3</td>
<td>Accounting 33</td>
<td>3</td>
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<td>Psychology 21</td>
<td>3</td>
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ACCOUNTING

Associate in Commerce

FIRST YEAR

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1Literature 61, 62, 63 is recommended for students planning to transfer to the University of Denver.
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 profes-
sional 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 administra-
tion or elect the two-year accounting option. The course includes
the development of the fundamental principals of double-entry book-
keeping, the balance sheet, profit and loss statements, controlling
accounts, partnership accounting, opening corporation books, surplus,
bonds, bond sinking funds, and managerial uses of financial state-
ments. Class meets daily.

62, 63. INTERMEDIATE ACCOUNTING  WS. 3 hours.
A two quarter course developed to fit the needs of two groups of
students: the terminal student who wishes to have a better under-
standing of accounting theory; and, the accounting and business ad-
ministration majors for whom the intermediate study is the founda-
tion for specialized courses. The course presents a continuation of
Corporate accounting with emphasis on financial statements and cur-
rent items. Final quarter is devoted to a further study emphasizing
noncurrent items and corporate capital. Prerequisite: Accounting 33.

64. COST ACCOUNTING  F. 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 col-
lege. Required of freshmen.

11. BUSINESS CORRESPONDENCE  FWS. 3 hours.
A study of the essentials of English in business communication. Let-
ters of the business office are criticized, planned, prepared, and dis-
cussed. Prerequisite: 6 quarter hours English and a knowledge of
typing.

19. WORD STUDY (Business)  F. 2 hours.
A study of words: their spelling, meaning, derivation, and pronun-
ciation. Emphasis will be placed on business terms. Open to all stu-
dents.
tional 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 adjustments to the college life either personally or socially. Regardless of the counseling situation, the student is assured of friendly, confidential aid.

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

Representatives 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.

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. Evidence 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

GRAND JUNCTION, COLORADO

15. WORD STUDY (Business)  S. 2 hours.
   Continuation of Business 10.

21. 22.23. BUSINESS MACHINES  FWS. 2 hours.
   Fundamental skills are developed in such machines as the ten-key adding machine, key-driven calculators, electric calculators, and posting machine. A student earns two hours for each machine completed. Class meets daily.

26. SALESMANSHP  F. 3 hours.
   Selling techniques developed. Psychological factors, initiative, and personality involved in influencing others in business transactions are studied.

32. INCOME TAX  W. 3 hours.
   The tax law applied to individuals and small businesses.

36. PERSONAL FINANCE & MONEY MANAGEMENT  S. 3 hours.
   A course designed to help those who want to do a better job of managing personal finances. The course will deal with the everyday financial problems that beset every man and woman, young or old. Financial problems of consumers will be studied.

39. INSURANCE  S. 3 hours.
   A basic study of the common types of protection afforded by insurance including fire, life, automobile, accident, and health.

41. BUSINESS MATHEMATICS  FWS. 4 hours.
   This course provides a review of the fundamentals of the various types of mathematical problems occurring in present-day business. The course is required of those majoring in business. Class meets daily.

43. FILING  F. 2 hours.
   Alphabetical, numeric, geographic, subject, and soundex systems of filing are studied. Practice is given in the finding of correspondence as well as in the filing of material.

51. BUSINESS LAW I  F. 3 hours.
   A study of: Contracts in general; Relation of Principal and Agent; Employer and Employee; Negotiable Instruments; Principal and Surety; Insurer and Insured; Bailor and Bailee.

52. BUSINESS LAW II  W. 3 hours.
   Contracts continued: Carriers and Shippers; Vendor and Vendee; Partnerships; Corporations; Property; Deeds of Conveyance; Mortgages; Landlord and Tenant; Torts; Business Crimes; Bankruptcy. Prerequisite: Business Law I. Required for A.C. degree, Accounting option.
SECRETARIAL

Associate in Commerce

FIRST YEAR

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Secretarial Science

10. BEGINNING TYPEWRITING

FW. 2 hours.

A course for those students with no previous training. No credit will be given if student has high school credit. Class meets daily. Available in night school only.

11. BEGINNING TYPEWRITING (continuation of SS 10)

WS. 2 hours.

No credit will be given if student has high school credit. Class meets daily. Available in night school only.

14. INTERMEDIATE TYPEWRITING

FWS. 2 hours.


15. ADVANCED TYPEWRITING

W. 2 hours.

Study of tabulations, telegrams, and legal forms. Fundamental skills are developed on duplicating machines and transcription machines. Development of speed on varied material, rather than standard-work. Prerequisite: SS 14. Class meets daily.

21. SHORTHAND THEORY

F. 4 hours.

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

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 70-81.)

HOUSING

Men—Except for the 51 men who can be accommodated in the dormitory, men students are required to live in private homes approved by the college. A list of accommodations is available in the Dean of Men's office.

Women—Under age 23, out-of-town women students must live in supervised housing (dormitory) unless they find it necessary to work for board and room. All board and room jobs for women must be approved by the Dean of Women. Write to the Dean of Women's Office concerning dormitory reservations and other housing information.

CAMPUS PARKING

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

LINCOLN PARK

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

PERSONNEL SERVICES

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

The guidance program begins when freshmen and transfer students first arrive on the campus. Each student is assigned to a faculty advisor on the basis of his vocational and major subject interest. This person continues as the student's advisor as long as he is in college unless he asks to be transferred to another advisor. During the school year, the advisor helps the student register, basing his assistance on the student's preferences, previous records and standardized test scores. He also discusses with the student the college or voca-
22. **SHORTHAND THEORY (continuation of SS 21)**  
W. 4 hours.  
A limited amount of dictation is given during this quarter. No credit will be given if student has high school credit. Class meets daily.

23. **BEGINNING DICTATION**  
FWS. 4 hours.  
Review of the principles of shorthand. Dictation is given at the rate of 80 words. Machine transcription, with special attention to letter arrangement. 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 90-100 words a minute is attained, with a mailable transcript. Prerequisite: SS 23. Class meets daily.

32. **ADVANCED DICTATION AND TRANSCRIPTION**  
S. 4 hours.  
Continuation of dictation and transcription practice. Dictation at 110-120; Transcription at an acceptable office rate. Vocational vocabulary is studied. Prerequisite: SS 31. Class meets daily.

33. **SECRETARIAL PRACTICE**  
W. 3 hours.  
The application of typing and shorthand to office situations. Business dress, business ethics, personality development. Prerequisite: Credit or enrollment in SS 23 and SS 14.

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**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

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16-18

### SECOND YEAR

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

## ACCOUNTING (9 Months) *

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

**William E. Putnam**  
B.S., Birmingham Southern College  
M.S., Emory University  
Ph.D., Rice University  

**Alvie Redden**  
B.S., West Texas State College  
M.F.A., University of Colorado  
Adv. Grad. Study, Ohio State University, Columbia University  

**Dan Roberts**  
B.A., Colorado State College  
M.A., Western State College  

**William S. Robinson**  
B.A., Morris Harvey College  
M.A., New York University  
Adv. Grad. Study, University of Denver  

**Wilma S. Schumann, R.N.**  
Practical Nursing  
Boulder Sanitarium and Hospital  

**Clarence A. (Jack) Scott**  
Physical Education, Assistant to Registrar  
B.A., Colorado State College  
M.A., University of Denver  

**Bertha L. Shaw**  
B.A., University of Iowa  
Grad. Study, Northwestern University, Iowa State University, Western State College  

**Dan M. Showalter**  
English, Literature  
B.A., Western State College  
Grad. Study, University of Colorado, Colorado State College, Western State College  

**Lawrence E. Standard**  
B.A., Western State College  
M.A., Western State College  

**Gwendolyn Thut, R.N.**  
B.S. in Nursing, Goshen College  

**Harry A. Tiemann, Jr.**  
B.A., University of Colorado  
Adv. Grad. Study, University of Colorado  

**Maxine Volpe**  
Night School Business  
B.A., Western State College  
Grad. Study, University of Colorado, Colorado State College  

**Joan Young**  
B.A., University of Colorado  
M.A., University of Kansas  
Adv. Grad. Study, Ohio State University  

**Herbert Weldon**  
Mathematics, Physics  
B.A., M.A., Western State College  
Adv. Grad. Study, University of Colorado  

**Walter E. Wheeler**  
Director, Adult and Vocational Education  
B.A., University of Colorado  
Grad. Study, Teachers College, Columbia University  
M.Ed., Colorado State University  

**Jacqueline Williams**  
B.A., University of Texas  

---

### GRAND JUNCTION, COLORADO

**SECRETARIAL COURSE (18 Months)**

*Associate In Commerce*

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### CLERICAL COURSE (9 Months)

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*Course descriptions are given under General Business, Secretarial Science, and Liberal Arts sections of this catalog.*
Bernadine J. Minion, R.N.  
Practical Nursing  
Colorado Training School, Denver General Hospital

Jean Mitchell, R.N.  
B.A., Muskingum College  
Diploma, Johns Hopkins Hospital School of Nursing  
B.S., Johns Hopkins University  
M.A., Ohio State University

Ethel M. Moore  
B.S., Nebraska Wesleyan University  
M.A., University of Nebraska  
Adv. Grad. Study, Bread Loaf School of English, University of Nebraska

Louise G. Moser, R.N.  
B.A., St. Louis College  
M.A., University of Washington  
Graduate of Massachusetts General Hospital School of Nursing

Lloyd Mountain  
B.A., University of Colorado  
Grad. Study, College of St. Catherine's

George Murray  
B.S., New Mexico School of Mines

Wayne Nelson  
B.S., M.S., Utah State University  
Adv. Grad. Study, University of California

I. J. Nicholson  
B.A., University of Colorado  
M.A., Western State College

Roberta B. Peck  
B.A., University of Colorado  
M.A., University of Wyoming  
Adv. Grad. Study, University of Arizona

Morton Perry  
B.S., Rutgers University  
M.A., University of Wyoming  
Adv. Grad. Study, Rutgers University; New Brunswick, Theological Seminary

Dean H. Phillips  
B.S., Architectural Engineering, University of Colorado  
B.S., Business, University of Colorado  
M.S., Industrial Engineering, Stanford University

James B. Phipps  
A.S., Cray's Harbor  
B.S., Washington State  
M.S., University of Colorado

William David Pilkenton  
B.A., Marshall College  
M.A., University of Michigan

Mai Robinson  
B.S., Minot State Teachers College  
B.S., Minot State Teachers College
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<td>Margaret Harper</td>
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<td>Edwin C. Hawkins</td>
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<td>Esther Herr</td>
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<td>Cheo Humphries</td>
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<td>Ruth C. Kunkle</td>
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<td>Maurine M. Leighton</td>
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<td>Pauline Messenger</td>
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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

Earl Jensen
Mrs. Claud Smith

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

Mary M. Coleman
Mathematics
B.S., Alfred University
M.P.S., University of Colorado

John M. Cook
Engineering
B.S., E.M., Colorado School of Mines

James C. Davis
Mathematics, Engineering
B.A., M.A., Colorado State College
Adv. Grad. Study, University of Colorado; Colorado State University

Yolanda J. D'Eila, R.N.
Nursing
Cornell University—New York Hospital School of Nursing
B.S., New York University
M.S., University of Colorado

Elaine E. Eddy
B.A., Yankton College
M.A., Western State College

Eugene W. Endsley
B.S., M.S., University of Denver
Adv. Grad. Study, University of Colorado; University of Oregon

Abbott Fay
Social Science
B.A., M.A., Colorado State College
Adv. Grad. Study, University of Denver
Adv. Graduate Certificate, Western State College

Richard Frohock
B.A., William Jewell College
M.A., University of Oregon
Adv. Grad. Study, University of Kansas; University of Utah

Virginia Fulghum
B.A., Western State College
Grad. Study, University of Colorado; Western State College

H. Hugh Gibson, C.P.A.
Business, Accounting
B.S.B.A., University of Denver
M.B.A., University of Denver

Alfred Gottfried
B.S., M.A., Western State College of Colorado
Adv. Grad. Study, Western State College of Colorado

Harry Hammer
Music
B.M., M.M., Syracuse University
Adv. Grad. Study, Syracuse University; Aspen School of Music
Ed.D., University of Colorado

James Hanks
Social Science, Assistant Director of College Center
B.A., Colorado College
Adv. Grad. Study, Colorado State College

Roy E. Hanrahan
Agriculture
B.S., Colorado State University
Adv. Grad. Study, Colorado State University

Helen M. Hansen
B.A., Washington State University
M.A., University of Denver
CURRICULUM

Associate in Commerce

FIRST YEAR

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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

Archie H. Gould, M.D.  George R. Simpson, D.O.
Harlan R. Huskey, M.D.  J. W. Standeven, M.D.
Richard P. Saunders, M. D.  Richard E. Troy, M.D.

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.
MESA COLLEGE

The Medical Office Assistant must be versatile, fitted by training and personality, to work with professional medical people in various ways. In addition to general education, she needs basic knowledge and skills such 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
Public Health Clinics
Industrial or Private Clinics
Hospitals
Medical Research Agencies
Drug Companies

Associate in Commerce

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<td>Accounting 13</td>
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</tbody>
</table>

At the time of printing this catalogue the curriculum had not been fully developed. Individuals interested in this program are invited to write Mesa College for further information on Medical Office Assistant.

Mid-Management Technology

The purpose of the Merchandising Mid-Management Technology program is to provide instruction in the field of distribution. This program serves employed distributive personnel within the framework of their careers whether they be beginning or experienced workers or occupy positions of management. This is a cooperative program between Mesa College and business and industry in the community, and incorporates classroom instruction and on-the-job experience.

Learning will concentrate on certain management concepts applicable to mid-management distributive occupations and students who complete the program will be prepared for initial employment on specific jobs and mid-management positions.

Mid-management technologists are employed in merchandising businesses in the following positions:

Buyers
Sales Managers
Department Managers
Supervisors
Assistant Managers
Managers

At the time of printing this catalogue the curriculum has not been fully developed. Individuals interested in this program are invited to write Mesa College for further information on Merchandising Mid-Management Technology.

GRAND JUNCTION, COLORADO

Personnel

MESA JUNIOR COLLEGE DISTRICT COMMITTEE
Roe F. Saunders, President
Clad Smith, Secretary
Herbert L. Bacon, Treasurer
Mrs. Clyde Biggs
Arnold Weiss

OFFICERS OF ADMINISTRATION—MESA COLLEGE
William A. Meders, President
B.S., Purdue University
M.F., Yale University
M.A., Ed.D., Columbia University
Kenneth LeMoine, Assistant to the President
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Adv. Grad. Study, University of Colorado
Don A. Shore, C.P.A., Business Officer
B.S. in Accounting, Kansas State University
Jay Tolman, Dean of Men
B.S., M.S., Utah State University
Adv. Grad. Study, University of Colorado, University of Utah
Esther Talley, R.N., Dean of Women
Swedish Hospital School of Nursing
B.A., M.A., University of Denver
Adv. Grad. Study, Western State College
Lowell Heing, Registrar
B.A., McPherson College
M.A., Colorado State College
Ed.D., University of Colorado

OFFICERS OF ADMINISTRATION—RANGELY COLLEGE
Nathan A. Ivey, Dean
B.S., Hardin-Simmons University
M.B.A., Texas Technological College
Ed.D., Kellogg Foundation Fellow, University of Michigan
Richard A. Meyer, Business Officer
B.S.B.A., University of Colorado
George E. Young, Superintendent of Buildings and Grounds
B.S.M.E., University of Des Moines

ACADEMIC DIVISION CHAIRMEN
Alfred Gottred, B.A., M.A., Division of Business
Harry Hammer, B.B., M.M., Ed.D., Division of Fine Arts
Esther Herr, B.A., M.A., Division of Humanities
Dan Showalter, B.A., Department of English
Lloyd Jones, B.A., M.A., Division of Social Science
Wayne Nelson, B.S., M.S., Division of Physical Education
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Eugene W. Endley, B.A., M.S., Department of Biology
Melvin McNew, B.A., M.A., Department of Chemistry
C. E. Moser, B.A., M.S., R.N., Director of Nursing Education
Walter E. Wheeler, B.A., M.Ed., Division of Adult and Vocational Education
MESA COLLEGE

PURPOSE

1. FOR ALL STUDENTS. To supply training for citizenship and enriched personal living to all students regardless of classification, by providing:
   General courses and group activities through which they are enabled to gain for themselves personal, social, civic and vocational competencies;
   A well-rounded education that develops within them a sound emotional and social balance and personal resources for continued intellectual growth;
   Assistance toward better understanding and appreciation of the values of art, music, literature and other cultural activities;
   Help in increasing their knowledge of economic principles, political institutions and historical trends and developments.

2. FOR TERMINAL STUDENTS. To provide certain types of vocational 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.

ADULT AND VOCATIONAL EDUCATION

In keeping with the purposes of the college, the adult and vocational education program attempts to serve community needs through the courses offered. The first type of course offered is for adults interested in cultural, informational, appreciational, and general educational subjects. The second type of course is aimed at developing vocational skills, competence, and understanding. Instruction is carried on through lecture-discussion, demonstration, laboratory, field trips, and shop work. Guest instructors are used in many cases to add new experience and give greater breadth to the course.

General Educational and Cultural Courses

Courses are being offered in Psychology, Sociology, Reading Improvement, Word Study, Geology, World Civilizations, Spanish, French, Rocketry, Driver Education, Basic Mathematics, Algebra, Investments, Woodwork, Lapidary 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

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.
AGRICULTURAL EDUCATION

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

DISTRIBUTIVE EDUCATION

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

HOMEMAKING EDUCATION

Evening courses for adult homemakers are currently being offered. The following types of courses are offered when ten women indicate an interest: Dressmaking, Individualized Clothing, Tailoring, Interior Decoration, Candy Making, Cake Decoration, Furniture Upholstery, Furniture Repair and Remodeling, Law for Laymen, Millinery, Slip Covering, Meal Planning, and Living in the Home. Parent Education for pre-school children is offered in Grand Junction, Fruita, and Loma in mornings and afternoons.

PRACTICAL NURSING

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

A 12-months' course designed to offer qualified women training in the basic principles of practical nursing and to prepare them for employment in hospitals and doctors' offices as trained practical nurses. Five hundred hours of classroom and 1,200 hours of supervised clinical experience are required. Work experience, under the direction of a physician or a registered nurse, is rotated, providing training in the handling of Medical, Surgical, Pediatric, Geriatric, and Obstetrical cases. Some reimbursement is realized by students in connection with the supervised clinical training. The program is offered under the supervision of the Colorado Board of Examiners for the Licensing of Practical Nurses. Classes start at the beginning of the fall quarter. Application for admission should be made by August to the Adult Education office. A physical examination is required.

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

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 Whitten Hall, and a new College Center Building, occupied in the spring of 1962, Mary Ratliff 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 educational, cultural, 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.
Trade and Industrial Education

A limited selection of Trade and Industrial courses will be offered in the adult night school 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-facing 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 Adult Education Office.
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

OFFICERS OF ADMINISTRATION
Nathan A. Ivey, B.S., M.B.A., Ed.D. ............ Dean
Richard A. Meyer, B.S.B.A. .................... Business Officer
George B. Young, B.S.M.E. .................... Superintendent of Buildings and Grounds

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 Arèsia 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:

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Courses and Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Sciences</td>
<td>General Courses</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>Biology (1), Chemistry (1)</td>
</tr>
<tr>
<td>Electronic Technology</td>
<td>Mathematics (2½), Physics (1)</td>
</tr>
</tbody>
</table>

FOR FURTHER INFORMATION

Write to Director of Admissions
Rangely College
Rangely, Colorado
SUMMER QUARTER

MESA COLLEGE

When justified by enrollment, an extended summer program may be made available. Typical courses and the Mathematics offered in previous summer sessions are listed in the course catalog. Some business courses are also offered.

This program is open to all students enrolled in the College. It is necessary to register for the semester in order to maintain eligibility for financial aid. Tuition and fees are the same as those for the fall and spring semesters.

OFFICERS OF ADMINISTRATION

President: Dr. J. C. H. V. Rye, B.A., B.S., M.A., Ph.D.
Vice-President: Dr. Donald R. Young, B.S., M.A.

FOREWORD

RANGELY COLLEGE

Rangely College, a unit of Mesa College, was established in 1909 as a branch campus of Western Colorado College at Rangely. It is a unit of the Western Colorado College and Secondary Schools.

LOCATION

Rangely College is located in Rangely, Rio Blanco County, on I-70, approximately 45 miles northeast of the city of Grand Junction.

PROGRAM

Rangely College offers courses in three types of programs: arts, science, and business. These programs are designed to meet the needs of students who wish to pursue a degree or certificate in one of these fields. They are also designed to be transferable to other colleges and universities.

Curriculum

General Education

Write to Registrar for information

Courses and Units

For further information

Mathematics 213, Physics 1

Art and Sciences

Electronic Technology

Associate Degree Nursing Students Study Anatomy

Engineering Drawing Class
SUMMER QUARTER

When petitioned by demand of a sufficient number of students, a limited summer program may be made available. Prerequisites for summer programs are the same as for the regular programs. On-campus summer classes begin in late June and remain in session through the end of August. This program is offered only to students who have a minimum of two units of high school mathematics. Usually a student is required to take a course in English composition. This program, when cooffred, operates on a one-semester schedule with most courses lasting five weeks. Minimum enrollment is five students except in English composition. Under students, on a first-come, first-served basis, may register for summer classes in middle of March following spring quarter graduation, and forms to be filled out from the chairman of the Division of Business or from the Registrar's office.

RANGELY COLLEGE

OFFICERS OF ADMINISTRATION

Merrill A. Dean, B. S., A. A. Ed. D.
Edward A. Mowry, B.S.E.E.

FOREWORD

Rangely College, a unit of Mesa College, was established in 1969 as a unit of the North Central Area Technical College.
SUMMER QUARTER

When appointed by formal a limited summer program may be made.

The following departments are open for summer

Accounting

Accreditation

Activities, Student

Admission Requirements

Adult Education

Agriculture

Art

Arts and Science, School of

Biology

Business

Professional Programs

Terminal Programs

Calendar

Change of Program

Chemistry

Counseling

Course Descriptions

Curricula Types

Accounting

Agriculture

Art

Business Administration

Dental, Pre-

Education

Engineering

General Education

Home Economics

Law, Pre-

Liberal Arts

Medicine, Pre-

Music

Nursing

Optometry, Pre-

Pharmacy, Pre-

Physical Education

Physical Science

Social Science

Data Processing

Degrees

Drama

Economics

Education

Employment

Engineering

English

Examinations

Expenses

Fees, Payment of

Foreign Language

General Information

General Regulations

Geography

Geology

Grade Reports

Grades

Graduation Requirements

Health Services

History

Home Economics

Housing

Insurance

Jewish

Literature

Lower Division

Medical Office Assistant

MIB Management Technology

Music

Nursing, Practical

Nursing, R.N.

Orientation

Personal

Professional Services

Philosophy

Physical Education

Physical Science

Physics

Political Science

Preliminary

Psychology

Purposes

Radiology

Recreational

Scholarship and Awards

Secretarial Science

Shorthand

Social Science

Speech

Student Activities

Student Loan

Summer School

Surveying

Supervision

Teacher Preparation

Technical Education

Tests, Entrance

Trade and Industrial

Transfer

Transportation

Veterans' Benefits

Withdrawal

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SUMMER QUARTER

RANGELY COLLEGE

OFFICERS OF ADMINISTRATION

Norman A. Kent, R.S., M.A., E.D.
Richard A. Young, R.S., M.A.

Dean
Superintendent of Schools

RANGELY COLLEGE

SUMMER QUARTER

SUMMER QUARTER

SUMMER QUARTER

SUMMER QUARTER

SUMMER QUARTER

SUMMER QUARTER
ADMISSION

Form from your high school and forward to Meso College. For Admission, have your high school transcript forwarded to Meso College. Applications may be submitted from February 10th through May 1st.

The $10 application fee must be paid to the attention of the Registrar. The fee is non-refundable and must be paid in full.

The admissions process involves a review of your academic history, recommendations from your high school, and a personal interview. You will be notified of your admission status within four weeks of submission.

We recommend that you contact the Admissions Office at Meso College for more information.

VOCAATIONAL-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:

<table>
<thead>
<tr>
<th>Course of Study</th>
<th>Lamar</th>
<th>Mesa</th>
<th>Northern</th>
<th>Otro</th>
<th>Rangely</th>
<th>Trinidad</th>
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