

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 Admissions Office 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 Admissions Office 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 310 application fee (see page 31) 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. Physical Examination and Residence Affidavit must be on file in the Records Office before final acceptance is granted. These forms are sent to the student from the college after the application has been received.
- 5. A.C.T. scores must be in the Admissions and Records Office before final acceptance is granted.
- Students who must live away from home must make arrangements for and secure approval of their housing from the office of the Dean of Students.
- 7. Prior to registration each applicant will receive additional information and preliminary registration instructions and materials.

Transfer Students

- 1. File with the Admissions Office at Mesa College:
 - a. The Standard Application for Admission form, Part I. (A \$10 applied cation fee must accompany the admission application. See page 27.)
 - b. An official transcript of all credits earned from each college or university previously attended. Failure to list all institutions previously attended may result in loss of credit and/or dismissal.
 - c. An official report of A.C.T. Test scores. (Transfer students who have not taken these tests previously must make arrangements with the Admissions Office to take them prior to registration.)
 - d. An official transcript from the high school attended.

REGISTRATION AND COUNSELING TESTS

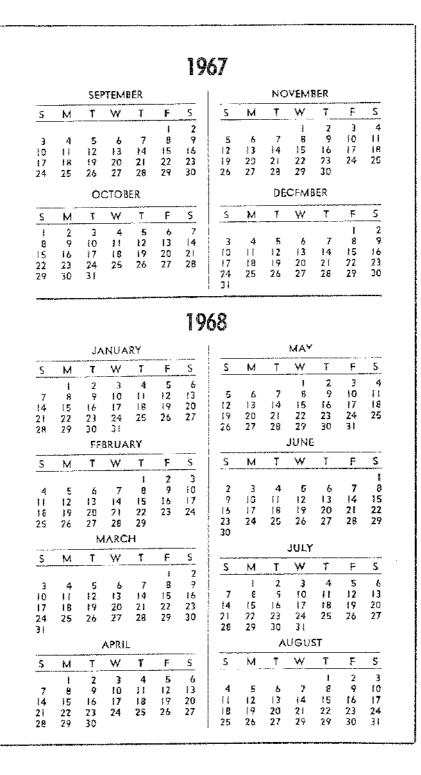
The college admission tests of the American College Testing (A.C.T.) Program are required of all new students prior to registration at Mesa College. It is recommended that prospective students take these tests during their senior year. The tests are available at designated centers throughout the state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

A \$4.50 fee must be submitted with a registration form to the A.C.T. Registration Unit, P. O. Eox 4505, Chicago, Illinois, 60680, four weeks prior to the test date on which the student elects to take the test. A special residual test administration date will be arranged as a part of Fall and Winter Quarter registration periods for those who, for good reason, have not been able to take the test during one of the regularly scheduled national test dates. (A \$7 test fee is charged on the residual testing date.) Detailed information regarding testing centers, dates, and registration supplies will be available through high school principals and counselors or from the Director of Admissions 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. requirement, (See page 33 for further information.)

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Mesa College Catalog 1967-68

Cover Ellustration: New Library Building



College Calendar . . .

FALL QUARTER, 1967

August 15 New Student Credentials Due	August 15
September 11, 1:00 p.m District Faculty Workshop Begins	September
September 12, 12:00 Noon	September
September 13, 14, 15	September
September 18, 19, 20 Orientation and Registration Counseling	September
for New and Transfer Students	
September 20, 21, 22	September
September 22, 12:30 p.m. Classes Begin	September
September 25, 7:00-9:00 p.m Continuing Education Registration	September
September 29 Last Day to Change Schedule	September
October 30 - November 1 Mid Term Examinations	October 30
November 22, 12:00 Noon	November 2
November 27 Classes Resume	November
December 11	December
December 15	December 1

WINTER QUARTER, 1968

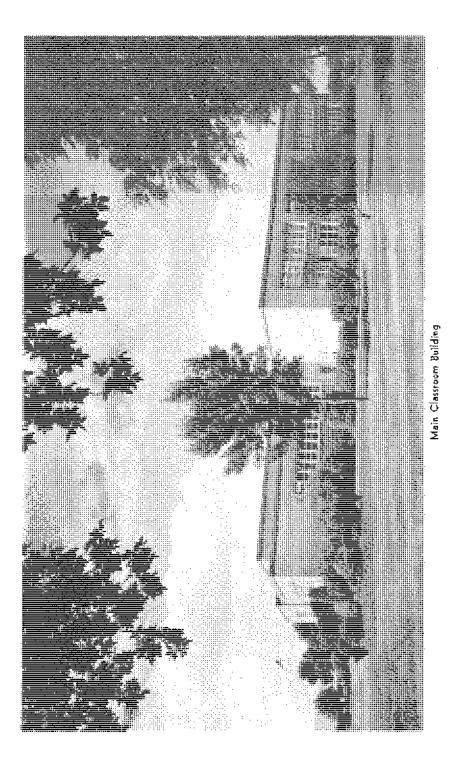
January 2, 3, 8:00 a.m 4:00 p.m.	Registration
January 4, 8:00 a.m.	Classes Begin
January 4, 7:00 - 9:00 p.m.	Continuing Education Registration
January 10	Last Day to Change Schedule
February 5-7	Mid Term Examinations
March 12	Final Examinations Begin
March 15	Winter Quarter Ends

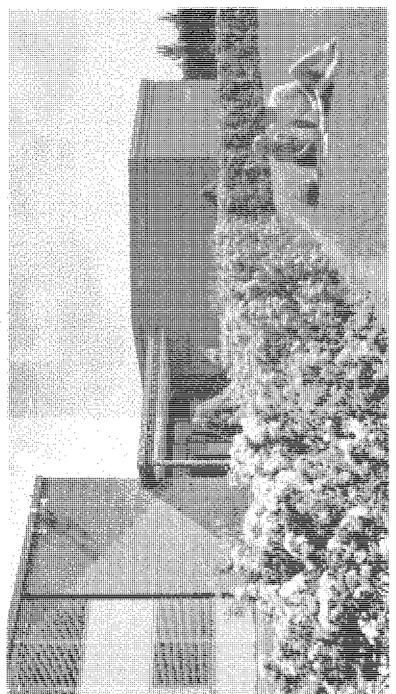
SPRING QUARTER, 1968

March 21, 7:00 - 9:00 p.m.	. Continuing Education Registration
March 25, 26, 8:00 a.m 4:00 p.m.	
March 27, 8:00 a.m.	Classes Begin
April 3	Last Day to Change Schedule
April 29 - May 1	
May 31	Final Examinations Begin
June 7	Commencement

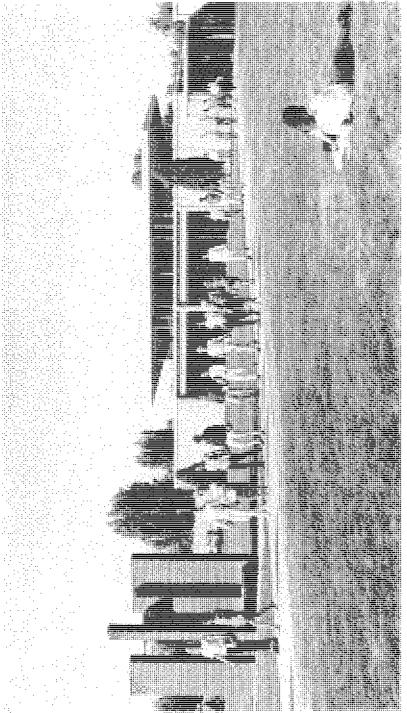
SUMMER QUARTER

See page 113 for Summer Quarter information.

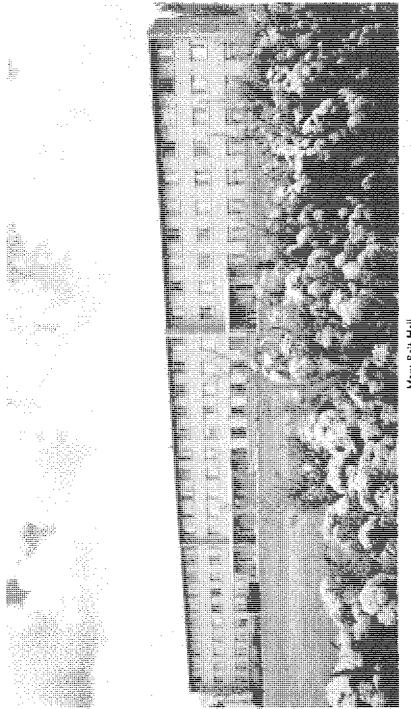




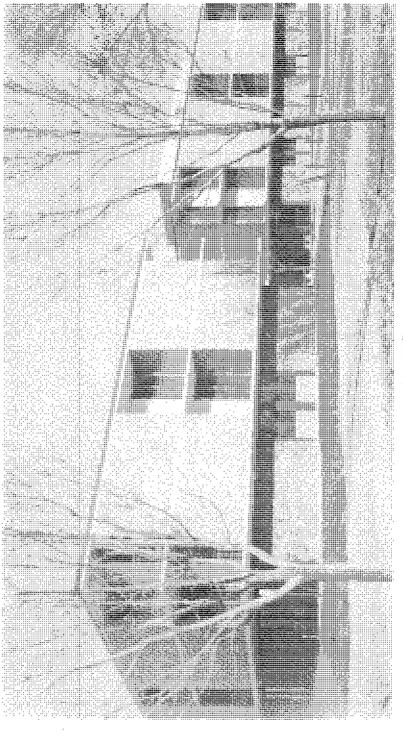
Horace Wubben Hall



Bell Tower and College Center



Mary Rait Hail



Aspen Hali

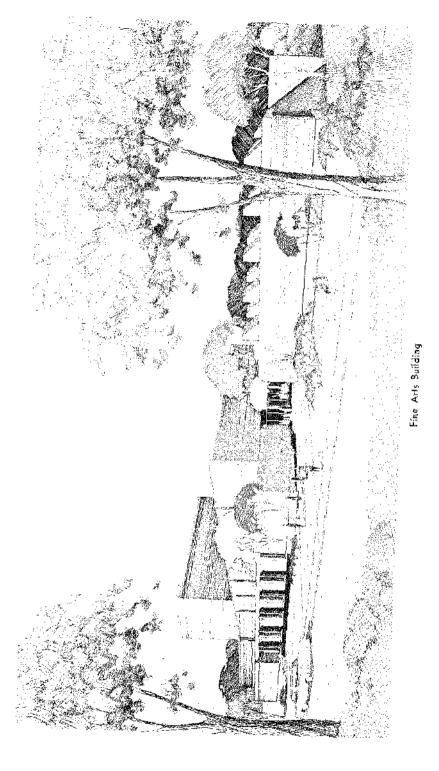


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Foreword .

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

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

FACILITIES, FACULTY, CLIENTELE

From a modest beginning in 1925 in a renovated former elementary school building, Mesa College's physical facilities have been developed steadily to accommodate a rapidly increasing enrollment. The growth in both enrollment and physical plant has been especially pronounced during the past six years. The first permanent structure on the present campus, a large classroom building occupied in 1940, continues to serve an important lunction as an education facility. Through the years, many other buildings have been added to the campus. They include Mary Rait Hall, Horace Wubben Hall, the College Center, three new residence halls, the fine new Library Building, and several other structures essential to the college's operation. Construction is scheduled to start during the summer of 1967 on a new Fine Arts Building. A new Physical Education Center is on the drawing hoard. (See General Information section for additional details.)

The well-qualified faculty, broad curriculum, and excellent 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 eltizenship 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.

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

CURRICULUM

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

Personnel

MESA JUNIOR COLLEGE DISTRICT COMMITTEE

Roe F. Saunders, President (1971)	Fruita	
Claud Smith, Secretary (1967)	Grand Junction	
Herbert L. Bacon, Treasurer (1967)	Grand Junction	
Mrs. Helen Dufford (1969)	Grand Junction	
Minford Beard (1971)		
(Date indicates expiration of six-year term.)		
Warren L. Turner, College Attorney	Grand Junction	

OFFICERS OF ADMINISTRATION-MESA COLLEGE

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

OFFICERS OF ADMINISTRATION-RANGELY COLLEGE

John E. RobertsPresident B.A., Bethany-Peniel College M.A., North Texas State University Fn.D., University of Denver
Frederick R. Struthers
Kenneth M. Bailey Dean of Administration B.B.A., M.A., Western Reserve University
Donald Courtier B.S., University of Colorado

DIRECTORS OF COLLEGE SERVICES

Wallace Dobbins	
B.Ed., Colorado State University M.A., Western State College	and College Publications
C. A. Euhanks B.A., University of Colorado Professional Engineer	. Director of Campus Development
Eugene Hansen B.A., M.A., Western State College	Director of College Center
Daryl Monroe B.S., Bemidji State College	Data Processing Supervisor
Bee Randolph, R.N. St. Luke's School of Nursing	Director of Health Service
Edward Strnad B.A., University of Denver	Purchasing Officer
Carl H. Close	ntendent of Buildings and Grounds

LIBRARIANS

Cyril B. Russell
B.A., North Dakota State College B.D., Nashotah College
M.A., University of Michigan
Dorothy Baughman Assistant Librarían
R.A., University of Colorado M.A., University of Denver School of Librarianship
Mary Elizabeth Goff Assistant Librarian
B.A., University of Colorado
Pauline MessengerAssistant Librarian
B.A., Bethany College
M.S., Kansas State Teachers College

RESIDENCE HALL DIRECTORS

Charles Hoppes Men's Residence Hall B.A., M.A., Western State College
Richard D. Schneider B.A., Fort Bays (Ransas) State College
Pearle Dragoo Mary Rait Hall
Leab Norman
Marjorie Carnine Elm Avenue Residence Hall

ACADEMIC PERSONNEL

Herman C. Allmaras B.S., University of Wisconsin M.S., Highlands University	Science, Mathematics
Charles W. Bailey B.A., M.A., Coloradu State College	Mathematics
B.S., M.Ed., Colorado State University	
Frances Best	English
B.A., William Jewell College Certificate, Kansas City Business College M.A., Adams State College	
Darrell C. Blackburn B. Mus. Ed., M. Mus. Ed., University of Colum-	
Orville L. Boge B.A., M.A., Colorado State College	Chemistry
Clifford Britton B.A., Adams State College M.A., San Diego State College	Mathematics

Jan Bryant English B.A., University of North Carolina M.A., University of Arizona	٤
Tennie Ann Capps Business B.S. Bas, Ed., M. Bus. Ed., University of Oklahoma	ł
James C. CarstensBusiness	,
B.A., M.A., Western Slate College Lois Coakley Chemistry	,
B.S., Colorade State University Bruce J. Cody Art	
B.A., University of Wyoning M.F.A., Washington State University	
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B.A., University of Maryland M.A., Western State College	
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Richard FrohockEnglish	
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Virginia Fulghum	
John A. Fynn Physics R.S., M.S., University of Depyct	
Alfred Goffredi	
Thomas D. Graves Basiness Basiness	
Roy E, Hannah B.S., Colorado State University	
Diaty Conclusion India - Only Charge	
Helen M. Hansen Business B.A., Washington State University M.A., University of Denver	
James T. Harper	
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Margaret HarperBusiness B.S., Contral Methodist College	
Edwin C. Hawkins Mathematics B.A., M.A., Colorado State College	
Frances Hegglund Nursing R.S., University of Utah M.A., Columbia University	
Bernard J. Hein Auto Mechanics Automotive Technician, I.C.S.; Echlin Field Service School; Carter Carburger School; 6X Service School, Ford Mutor Co.	
John G. HensonMathematics B.S., Texas Technological College M.A.T., Colorado State University	
Dessie Dell Hill, R.N. Nursing University of Oregon School of Nursing B.S., University of Oregon	

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Davis C. Holder Engineering E.S., M.S., University of Wyoming
Madge Huffer Speech, Dehate B.A., Sioux Falls College M.A., Colorado State College
Cheo HumphriesPhysical Education B.S., Indiana University
Robert L. Johnson English B.A., M.A., Western State College
Lloyd B. Jones Chairman, Social Science Division B.A., M.A., Western State College
Alvin King
Ruth Kunkle Home Economics, Child Care B.A., Arizona State University
Doris R. Lay English, Journalism, Student Publications R.A., M.A., Western State College
Maurine M. Leighton
Milton F. Lenc
Calvin J. Luke Mathematics B.S., Brigham Young University M.A.T., Colorado State University
Daniel MacKendrick English B.A., M.A., Western State College
Donald A, MacKendrick Social Science B.S., Colorade State Driversity M.A., University of Colorado
Melvin McNew Ilead, Department of Chemistry B.A., M.A., Western State College
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Owen Metcali B.M., M.M., Universify of Colorado
Donald E. MeyersArt B.F.A., University of Derver M.A., Colorado State Cellege
Bernadine J. Minion, R.N. Practical Nursing Colorado Training School, Denver General Hospital
Ethel Mae Moor Hendrik Vener General Hopkar B.S., Nebraska Wesleyan University M.A., University of Nebraska
Melda Morrow Health Programs B.S., Education, Capital University M.T., Registry of Medical Technologists
Louis G. Morton Social Science B.S., Education, Missouri University M.A., Education, Western State College
Louise G. Moser, R.N. Chairman, Division of Health Programs Graduate of Massachusetts General Hospital School of Nursing B.A., Withomberg University M.N., University of Washington
Lloyd Mountain
George Murray Mathematics, Engineering B.S., New Mexico School of Mines M.A., Western State College

Wayne Nelson Chairman, Division B.S., M.S., Uab State University	n of Physical Education
I. J. Nicholson	Social Science
R.A., University of Colorado M.A., Western State College	
Roberta R. Peck	English
Jack M. Perrin	Physical Education
H.A., M.A., Northeast Missouri State Teachers College Morton Perry	Social Science
Morton Perry B.S., Rutgers University M.A., University of Wyoming	
Dean N. Phillips	thematics, Engineering
B.S., Architectural Engineering, University of Colorado B.S., Business, University of Colorado M.S., Industrial Engineering, Stanford University	
William David Pilkenton B.A., Marshall College M.A., University of Michigan	Language
William E. Putnam	Physics, Chemistry
B.S., Birminghau: Southern College M.S., Emory University Ph.D., Rice University	
Alvie Redden	Division of Fine Arts
M.F.A., University of Colorado Robort, D. Bion	
Robert, R. Rice B.S., Calorado State University M.S., University of Illinois	Biology
Jack E. Roadifer B.S. M.S., South Dakota School of Mines	Geology
B.S., M.S., South Dakota School of Mines Ph.D., University of Arizona	
Dan Reberts	Social Science
B.A., Colorado State College M.A., Western State College	
Mai Robinson B.S., Minot State Teachers College	English
William S. Robinson Head, Department	of Speech and Drama
B.A., Morris Harvey College M.A., New York University	
Wilma S. Schumann, R.N Direct Boulder Sanitarium and Hospital	ctor, Practical Nursing
Vernon P. Scott	Geology
B.S., Brigham Young University M.A.T., Indiana University	
Bortha L. Shaw B.A., State University of Iowa M.A., Western State College	Reading
Dan M. Showalter Chairman, I	Division of Humanities
B.A., M.A., Western State College Joan M. Sommers, R.N.	Nursing
B.S., Ohio State University	
Robert Sowada B.A., M.A., University of Wyoming	English, Language
James Squirrell	Business
B.A., Western State College M.B.A., University of Denver	
Lawrence E. Standard B.A., M.A., Western State College	English
Nancy II. Stone B.A., University of Oregon	English
Marcella Sullivan	Home Economics
B.S., M.A., Colorado State University	
Harry A. Tiemann, Jr. B.A. M.A., University of Colorado	

Clayton Tipping B.S., University of Denver LL.B., University of San Francisco		Business
Louise Tolman	Physical	Education
Clarence Ed Tooker] B.A.: Colorado State College	Physical	Education
Maxine Volpe B.A., M.A., Western State College		English
Richard A. Weaver B.F.A., M.F.A., University of Oklahuma		
Herbert Weldon B.A., M.A., Western State College		
Ronald E. West		Business
Joan Young B.A., University of Colorado M.A., University of Kansas		
Rohert Young B.S., University of Colorado Ph.D., Ohio State University		Science
Robert D. Youngquist B.S., University of Denver		Business

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APPLIED MUSIC TEACHERS

TAED MUSIC LEACHERS	
Mrs. Earl Amos	
Dean Beck	Woodwind
Carvl Berneau	Piano
Krance Best	Organ
Mary Leah Chavies Pian	o, String Bass
Era Cheedle	Organ
Anna Rose Cheney	Voice
Ola Cook	Organ, Piano
Joe Grantham	Brass
Alice Griggs	Piane
Maebeth Guyton	Voice
Dave Hein	V Olce
Anna Mae Heiny	Plano
Donna Jackson	Piano
Marion Jacobs	Brass
Jeanine Lamm	Strings
Edna Marsh	Organ
Charles Myers	Plano
Skip Nelson	String Bass
Lois Ponsford	Voice, Piano
Allen Porter	Fine
Paul Schneider	woodwina
Larry Thompson	Percussion
Marie Treece	VOICE
Georgia Watkins	Fute
Alice Wolfe	Plano

EMERITI

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

GENERAL INFORMATION

ACCREDITATION

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

BUILDINGS AND EQUIPMENT

Mesa College is developing its campus according to a master plan designed in 1960 and revised in 1966. Present facilities include a Main Classroom Building, Horace Wubben Science Hall, Library-Administration Building, Mary Rait Hall, College Center Building, Elm Avenue Hall, Child Development Center, and three 200-student residence halls.

The Main Classroom Building, a two-story structure, provides classrooms for Business. Fine Arts, Home Economics, and Social Science. It also houses an auditorium-gymnasium (soon to be replaced) and the Data Processing Department. With the completion of the planned Fine Arts Building and the Physical Education Center, this building will undergo major remodeling to improve and increase its academic facilities.

Horace Wubben Hall, completed in 1962, incorporates the finest of modern science and engineering classroom and laboratory facilities for Physical and Natural Sciences and the field of Engineering. A special feature of this building is an octagonal lecture hall, seating 100, which has provisions for audio-visual presentations and laboratory demonstrations. The fully air-conditioned building also provides staff offices, reference library, and conference rooms.

The new Library Building, scheduled for completion in Fall 1967, is a three-level building incorporating the latest concepts in library design, with a wide variety of study facilities. With open stacks available for up to 80,000 volumes, the college's book collection of 20,000 volumes is being increased at an accelerated rate. About 200 periodicals are currently received by the library. As the center of the academic program, the library provides facilities for a variety of learning experiences, including reading, viewing, listening, research, and group discussions. The first level of the building, intended ultimately for library expansion, is the college Administrative Office center, including the President's Office, Admissions and Records Office, Student Personnel Services, Business Office, and Public Information Office.

Extensive remodeling of Mary Rait Hall during Summer 1967 will provide additional classrooms, space for the Audio-Visual and Duplicating departments, and a sound-recording studio. On the upper two floors will be sixty faculty offices and facilities for related secretarial and receptionist staffs.

The College Center Building, occupied in January 1962, contains a modern, fully equipped cafeteria, bookstore, study and recreational lounges for students and faculty, office and conference facilities for

The Child Development Center, located at Eim Avenue and College Place, provides facilities for Mesa College's vocational-technical program designed to train directors and personnel for child-care centers and also for the Division of Continuing Education's Parent Education and Preschool program. Classrooms, play areas, observation facilities, and office spaces are located in this building.

Shop laboratories for classes in machine shop, auto mechanics, auto body and fender repair, welding, electronics, and other courses of a vocational or technical nature are available at the Adult Service Building and on a rental basis from the local school district and from private owners for the use of the Mesa College Continuing Education grogram.

Three new 200-student residence halls, the first of which was occupied in Fall 1966, provide comfortable living quarters for boarding students. Most of the rooms are doubles, but a few singles are available. All rooms are furnished with modern wall-hung furniture to provide maximum comfort and flexibility. The design of these residence halls emphasizes an environment conducive to study.

Construction is scheduled to begin in 1967 on three additional buildings. The new cultural center of the campus will be the Fine Arts Building, which will include facilities for art, music, and drama. The building will feature a multi-purpose Little Theatre, with seating capacity of 700 when opened to include alcoves which at other times will serve as smaller leature halls. The Physical Education Center is being planned to provide a variety of physical activities for all students. Facilities are to include all-purpose gymnasium areas for both neen's and women's physical education and varsity basketball, swimming and diving pools, and office space for the Division of Physical Education. Also scheduled to be added to campus facilities in 1967 is a Maintenance Building, which will house all types of equipment used in general campus upkeep. It will include areas for central receiving shipments, campus distribution, and storage.

LOCATION

Mesa College's main academic campus is bordered by North Avenue, Eim Avenue, Twelfth Street, and College Place, about one and onequarter miles north and east of Grand Junction's nationally famous Downtown Shopping Park. The newer campus developments extend northward to Orchard Avenue and thence westward to Cannell Avenue. The residential section in the vicinity of Mesa College is attractive and modern. Several stores and other conveniences are located within walking distance of the campus, and many others, including a large new shopping center, are located along North Avenue.

Grand Junction's location in a scenic part of the Rocky Mountain West provides unlimited opportunity for the outdoorsman. Many Mesa College activities involve the physical advantages of the region. Among these activities is the college's physical education program in skiing, which is conducted at the new Powderhorn-on-Grand Mesa Ski Area, Qualified instructors, a variety of lifts, and miles of excellent trails combine to make the ski area a valuable adjunct to the college's Winter Quarter program. Students also take advantage of the eity's parks, golf courses, and swimming pools and the numerous outdoor attractions to be found in the nearby mountains.

LINCOLN PARK

Directly to the south and cast 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 facilities include a baseball diamond and stands, six concrete tennis courts, a nine-hole golf course with grass fairways and greens, all available to college students.

ENROLLMENT

The regular day school enrollment for Fall Quarter 1966 consisted of a Freshman Class of 1,180 students, including 768 men and 412 women; a Sophomore Class of 720 students, including 494 men and 226 women; and 51 additional graduate, special, and unclassified students for a total of 1,951. The geographical distribution of home towns for these students was as follows: 865 from the Mesa Junior College District; 964 from Colorado counties other than Mesa Junior College District; 110 from out of state; and 12 from foreign courtries.

In addition, the night-school program enrolled 402 part-time students taking degree credit courses and 574 other students enrolled in a wide variety of non-credit adult-type courses. Thus in its role as a community college, Mesa College served a total of 2,927 individuals during Fall Quarter 1966.

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.

RANGELY COLLEGE

Rangely College, a unit of Mesa Junior College District, was established in 1960 and admitted its first class in September of 1962. As a unit of the district the college at Rangely is accredited by the North Central Association of Colleges and Secondary Schools. (See page 113.)

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 intermational relations-presented by faculty, students, community members, and out-of-town speakers.

At various times throughout the year, students and faculty members participate in radio and television panels and other types of programs to keep the community informed of activities at Mesa College.

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

Student Personnel Services

COUNSELING AND GUIDANCE

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

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

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

Any student needing personal or vocational counseling may see, at any time, one of the Associate Deans of Students, the Dean of Students, or other members of the staft who are especially qualified. The Deans, located in the Administrative Office area on the first floor of the Library 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. Qualified junior college graduates are given the opportunity to participate in one of the R.O.T.C. Programs offered at the four-year institutions. Students who are selected must attend a summer training program between their sophomore and junior years. This is an opportunity leading to a commission in the military service.

Mesa College is small enough to offer students the opportunity to know instructors personally. Instructors are interested in and willing to help other students as well as their own advisees.

Parents and 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.

ROUSING

MEN—The College owns and operates two new residence halls on campus for men students. Insofar as this housing is available, all unmarried freshmen under 21 years of age must live on the campus. Except for commuting students who live at home, all students who live off the campus must secure approval of their housing by the Office of Student Personnel Services.

WOMEN—All single women students under 21 years of age must live in supervised residence-hall housing. Normally, permission will be granted for a student to live with a relative or to work for room and board in a private home. All housing arrangements for women students must be approved by the Director of Women's Housing. Housing reservations must be initiated by writing to Student Personnel Services. Preference can be granted only to those who apply early before June 1.

A new 200-bed residence hall for women students will be ready for occupancy Fall Quarter 1967. This housing is in addition to Elm Avenue Hall, which accommodates 30 students.

General Requirement — A housing deposit of \$20 is required of hoth men and women students who live in College dormitories. Dormitory rooms are limited and reservations will be assigned in the order in which contracts and deposits are received. When a reservation is cancelled, \$10 will be refunded if notification is given at least three weeks prior to the quarter for which accommodations have been reserved, except for Fall Quarter when notification must be furnished by August I. If all provisions of the contract have been complied with and no damage charges has been assessed, the \$20 deposit will be refunded at the end of the College year. No student is permitted to break this contract during the quarter unless he or she is leaving campus or getting married.

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

Off-Campus Housing—The Director of Student Housing inspects and approves all student housing located off the campus. The Office of Student Personnel Services provides lists of College-approved offcampus housing and assists students in securing housing off campus. Changes in the location (address) of a student's housing must be reported to, and approved by, the Housing Director. Students requesting information about housing in either the College residence halls or off-campus should write or contact the Office of Student Personnel Services.

STUDENT LOANS

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

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

In addition, the College provides short-term and intermediate-term loan funds from which students may borrow to help meet financial obligations more temporary in nature. By definition, short-term loans are limited to a maximum of \$60 repayable within 60 days or by the end of the quarter, whichever comes first. No interest is charged, but a small service charge is made. Intermediate-term loans are repayable within six months or, in any event, not later than September 1 following the date of the loan. Loans in this category are limited to \$250 with simple interest charged at five per cent.

For the most part, the short-term and intermediate-term loan funds provided by the College were made possible by the generous contributions of individuals and organizations of the Grand Junction area. Principal among these are the following: The WILLIAM CAMPBELL STUDENT LOAN FUND derived from the earnings of the Campbell Estate is used for student loans. In recent years, this fund has been used to match federal money to provide an adequate National Defense Loan Fund for Mesa College students.

The RALEIGH B. AND RALEIGH JAMES FLANDERS LOAN FUND is a fund of \$750 available to women students for short-term loans.

The BUSINESS AND PROFESSIONAL WOMEN FUND (B&PW) consists of \$1,000 which is loaned to women students only. It may be used in either large or small amounts. Four per cent interest will be charged. The money will be used for any college expenses that women students might have. It may be loaned for a period of a year, or, in extreme cases, until the student completes her education at Mesa College.

The HARRY B. GOODWIN SCHOLARSHIP LOAN FUND of \$14,-350 is available, on a revolving basis, to Mesa College graduates who need financial assistance to continue their education. In addition, the Goodwin Foundation recently gave \$1500 to augment the College's intermediate-term loan funds.

In May 1965 the GRAND JUNCTION AREA EDUCATIONAL ASSO-CIATION generously contributed \$1,000.00 to augment the College's short-term revolving student loan funds.

The ELEANOR HANSEN MEMORIAL LOAN FUND of approximately \$1,550 and the ABE BOLOTIN MEMORIAL LOAN FUND of \$500 are special loan funds set up primarily to assist students who are pursuing a course of training in Nursing.

The RICHARD JONES MEMORIAL LOAN FUND in the amount of \$560 established in 1964 to assist students in the field of Music.

The SAM B. MILLER MEMORIAL LOAN FUND was established in the amount of \$2,500 in 1965 and increased to a total of \$4,500 in Fall Quarter of 1966.

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 longtime residents of Mesa County. This fund is being used for short-term loans.

DR. H. H. ZIEGEL contributed \$1,000 in May 1965 to be used as a revolving loan fund for Nursing, Pre-Medical, and Pre-Dental students.

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

0. M. E.Idy Memorial Fund Virginia Belle Eddy Memorial Fund Barold Doerr Memorial Fund Mrs. O. H. Ellison Memorial Fund Barbata Fox Memorial Fund Clarence A. Harris Memorial Fund Kathleen Heidrich Memorial Fund

Harry Krizman Memorial Fund Harry A. Kubahausen Memorial Fund Latin-Anglo Alliance Fund Lions Club Loan Fund Mrs. Resaile Lumley Memorial Fund Ina Betty Read Memorial Fund LeRoy S. White Memorial Fund

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

SCHOLARSHIPS AND GRANTS-IN-AID

Mesa College awards a large number of scholarships and grants-inaid each year. Scholarships are awarded primarily on the basis of scholastic achievement, but include also the recommendation of the high school counselor and/or principal and give consideration to the financial resources of the student's family. Grants-in-aid are awarded to students who have special talents in athletics, music, and art, and to scholastically capable students who have exceptional financial need.

Normally, scholarships and grants-in-aid cover the cost of tuition. Application deadline for scholarships is April 1. The uniform "Colorado Preliminary Application for Financial Aid" form used by most of the institutions of higher learning in the State of Colorado is the prescribed form on which to submit applications.

The principal types of scholarships offered by the college are the following:

(1) THE MESA COLLEGE SCHOLARSHIP—This is a two-year scholarship established to replace the old Joint Honor Scholarship. It is not transferable to another college, however.

(2) THE MESA COLLEGE ACHIEVEMENT AWARD—This is a oneyear (freshman) scholarship. It is the policy of the college to make at least one of these scholarships available to the graduates of each of the high schools of Western Colorado. It is anticipated that we will be able to renew the majority of these scholarships for the sophomore year provided that (1) sufficient funds are available, and (2) the student achieves a cumulative grade-point average of 3.0 (8) or above by the end of the freshman year. These second-year awards are known as MESA COLLEGE SOPHOMORE SCHOLARSHIPS.

(3) ACADEMIC DIVISION SCHOLARSHIPS—Each academic division of the college awards one or more scholarships. These are awarded to the outstanding scholars in each division at the end of their freshman year for use as tuition waivers for the sophomore year.

(4) MUSIC SCHOLARSHIPS in the amount of S45 per quarter, are awarded by the college to a limited number of music students. These awards are based upon the recommendations of high school music directors and the Mesa College Music staff.

In addition to the above institutional scholarships, many scholarships and awards have been established for students of the college by private individuals and organizations of the Grand Junction area. The amounts of these awards vary but all are designed to apply toward tuition and fees.

EDUCATIONAL OPPORTUNITY GRANTS are now available to exceptionally needy students who wish to attend Mesa College. These grants were made available under Title IV of the Higher Education Act of 1965. Under this program, students from low-income families who have exceptional financial need may receive an outright grant of from \$200 to \$800. The amount of grant is geared to the parental contribution but may not exceed onc-half of the student's total financial need, exclusive of any assistance under the College Work-Study Program.

ATHLETIC GRANTS-IN-AID, equivalent to tuition and some fees, are awarded each year to approximately 80 freshmen and sophomores who have excelled in various sports, either as high school seniors or freshmen at Mesa College. These awards are made by the Department of Intercollegiate Athletics of the college. The MESA COLLEGE SCHOLARSHIP DEVELOPMENT FUND, INC. conducts drives to raise funds for scholarships and student loan funds, and also serves as a receiving and clearing agency for many of the College's established scholarships and student loan funds.

EMPLOYMENT

The Office of Student Personnel Services operates a job placement bureau to assist students who must work part-time to help pay for their college expenses. Applications for such employment should be obtained from, and filed with, the Office of Student Personnel Services immediately following registration. Students will then be notified as steady part-time jobs become available.

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

Mesa College participates in the College Work-Study Program provided by the Economic Opportunity Act of 1964 as amended by the Higher Education Act of 1965. Under this program, the College plans to employ approximately 100 students at an average part-time salary of about \$500 for the three quarters of the regular academic year. The purpose of the Work-Study Program is to provide financial assistance for academically qualified students who must have financial help toward meeting the costs of necessary college expenses.

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

HEALTH AND INSURANCE SERVICES

Mesa College provides health services for all students. These include the part-time services of a medical doctor and the full-time services of a registered nurse. The type of services provided includes first aid dispensing simple medicines, recommending proprietary drugs, making referrals to physicians and dentists, conducting health surveys, calling on students confined in hospitals, and visiting students residing in campus housing who are seriously ill or injured.

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.

Students entering Mesa College for the first time are required to present a certificate of good health signed by a family physician or a physician approved by the college. Expense of this examination is borne by the student. Health examination blanks are available at the college Admissions Office.

STUDENT ACTIVITIES

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

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

Expenses at Mesa College

BOARD AND ROOM

Effective Fall Quarter 1967, board and room charges in all residence halls, for both men and women, will be \$300 for Fall Quarter, \$270 for Winter Quarter, and \$270 for Spring Quarter, or a total of \$840 for the school year. The charges include three meals per day at the College Cafeteria (with second helpings permitted at any meal), except that only two meals are served on Sundays.

The cost of rooms in private homes depends upon the type of accommodations provided and ranges from S25 to \$45 per month. The special quarterly plan discount meal ticket for students who do not live in the college residence halls costs S175 for Fall Quarter and \$160 for each of the subsequent quarters. Board and room in private homes is very difficult to obtain.

Reservations for rooms in the dormitories should be made not later than August I. Reservation contracts are available from the Records Office or from the Deans and must be completed and returned with a \$20 deposit. Dormitory rooms are limited and reservations will be assigned in the order in which contracts and deposits are received. No student is permitted to break this contract during the quarter unless he or she is leaving campus or getting married.

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

BOOKS AND SUPPLIES

Text books, notebooks and school supplies are sold at the College Bookstore. Cost of needed books and supplies will vary according to the courses taken by the student but ought not to exceed \$110 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 full-time students pay a college fee of \$70 per quarter. In addition to this fee, students who do not qualify as legal residents of the Mesa Junior College District are charged a tuition fee of \$50 per quarter, provided they are legal residents of Colorado. Students who do not qualify as legal residents of Colorado are charged a tuition fee of \$165 per quarter in addition to the \$70 college fee. All fees are payable at the time of registration.

COLORADO RESIDENTS Mesa College Dist Tuition No charge College Fee \$ 70 per Quarter		\$50	per	District Quarter Quarter
Total		\$120	per	Quarter
NON-RESIDENTS				
College Fee		\$ 70	per	Quarter
Tuition	· · • • • • • • •	\$165	per	Quarter
Total		\$235	per	Quarter

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

DETERMINATION OF RESIDENCE STATUS FOR TUITION PURPOSES

Residence status for tuition purposes at Mesa College is based upon the requirements as prescribed and approved in H.B. 249 by the Colorado Legislature in 1961 and amended in 1965 for Colorado Public Institutions of Higher Learning. Basic requirements are summarized below.

In-State Residence

- 1. If an adult, upon moving to Colorado, is employed on a full-time basis, and files for the payment of Colorado state income taxes or files estimates of such taxes, and renounces his residency in any other state, and is not himself in the state primarily as a student, his minor children may at once be classified at the in-state rate, so long as he continues his Colorado domicile.
- 2. An unemancipated minor shall qualify for a change in status only if his parents or legal guardian or person having legal custody shall have completed the requirements for establishing domicile as defined in Item I above. An emancipated minor or adult student who has registered AS A FULL-TIME STUDENT for more than EIGHT hours per term shall not qualify for a change in his classification for tuition purposes unless he shall have completed twelve continuous months of residence while not attending an institution of higher learning in the state or while serving in the armed forces.
- 3. Residence in the state primarily for the purpose of altending an institution of higher learning does not apply toward the time required for the establishment of legal residence.

In-District Residence

- Establishment of a bona-fide residence within the Mess College District on the part of the parent or legal guardian at any time prior to the designated registration date will be the basis on which Iu-District Residence Status will be granted for minor children.
- In-District Residence Status for the emancipated minor or adult student requires residence within the state for twelve months (as in #2 above) including 90 days residence within the Mesa College District immediately preceding registration.

General Interpretations

- 1. In all cases residence of the student under 21 years of age, (including married male students) will be that of the parent or legal guardian (except that the residence status of a married woman will be based upon that of her husband). Exceptions to this rule will be granted only when the parent or guardian has relinquished all responsibility for, or claim on, the student via due legal proceedings and a court order.
- 2. Residence of the student 21 years of age or over will be based upon the student's own status in accordance with the above regulations; or upon the status of the husband (not the wife) in the case of married students where such husband may qualify for residence status in accordance with the above regulations.
- 3. Once In-State or In-District residence is established it shall not be lost until the close of the current regular academic year by virtue of removal from the state or district by parent, legal guardian, or spouse.
- A notarized residence allidavit signed by the parent or legal guardian of each minor student, or by the student, if over 21, is required before final acceptance is granted.

BOARD AND ROOM

Board and Room in Residence Halls:

Fall Quarter, \$300; Winter Quarter, \$270; Spring Quarter, \$270. Total for the year, \$840.

- Board only, College Cafeteria (7-day week):
 - Fall Quarter (12½ weeks), \$175; Winter Quarter (11 weeks), \$160; Spring Quarter (11 weeks), \$160.

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 \$10 to \$15 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. Day school students who pay full day school tuition and fees will not be charged extra for evening classes, except where a special material fee is required by the class.

MISCELLANEOUS FEES

	\$ 5.00
Change in schedule	2.00
Late or special examination	2.00
Graduation (cap, gown, diploma)	3.00
Late petition for graduation	1.00
Late credential fee	3,00

PART-TIME STUDENT FEES

Students taking a part-time course are charged a class fee of \$6 per quarter hour for Mesa Junior College District residents, \$10 per quarter hour for Colorado residents who do not live in the district, and \$20 per quarter hour for non-residents of Colorado. 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 charges, including fees, tuition, room and board, etc., at any time deemed necessary by the College Committee,

REFUNDS

Room and Board, College Residence Halls

Students who voluntarily withdraw from the residence halls (or the College) during a quarter are not entitled to any refund on room rent. Refunds on board will be made only with the expressed approval of the Business Office and the Dean of Students after justifiable cause has been shown. No refunds for board will be made to any student who voluntarily withdraws during the last thirty days of the quarter, however.

Normally, unless there is an assessment for damage, full refund of the required \$20 room deposit will be made at the time the student terminates his enrollment for the academic year.

A room reservation in college housing will not be confirmed until the \$20 room deposit is received. If the reservation is cancelled, \$10 will be refunded the student if notification is given at least three weeks prior to the beginning of the quarter for which accommodations have been reserved, except that for Fall Quarter the notification must be made by August 1.

Board at College Cafeteria

Students who elect the special cafeteria discount plan of \$175 for the Fall Quarter and \$160 for each of the remaining quarters are subject to the same refund conditions as are described for students who live in the college residence halls.

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

Tuition and Fees

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

Organization for Instruction

The program for the two years at Mesa College will depend upon what the student plans to do at the end of two years. For those who plan to continue college work in a senior college or university the courses in liberal arts, which are equivalent to such first- and second-year courses at higher institutions of the state, are required. Certain definite lowerdivision 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 Secretariol 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.

In recent years Mesa College has given increased attention to providing programs of Vocational and Technical Education for students who do not plan to complete a four-year degree. These specialized programs of a terminal, technical, or semi-professional nature are designed to help students develop the specific skills required for employment in the various technical occupations for which the training is offered.

A program of Continuing Education is designed to provide opportunities for adults to receive both academic and vocational preparation in various fields. Related training in several apprentice trades is given through the program.

MESA COLLEGE RESERVES THE RIGHT TO WITHDRAW FROM ITS OFFERINGS ANY COURSE WHICH THE ENROLLMENT DOES NOT JUSTIFY GIVING, FOR ANY PARTICULAR QUARTER. ADDITIONAL COURSES WHILL 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 Admissions and Records Office.

ACADEMIC INFORMATION

ADMISSION TO MESA COLLEGE

Admission to Mesa College is granted upon the filing of an application for admission and the presentation of satisfactory credentials. All applications must be filed upon the official forms available at the college, or, for Colorado residents, at the office of the high school principal. A \$10 evaluation fee must accompany the admission application.

Colorado high school graduates who have completed satisfactorily a minimum of fifteen acceptable units of high school work are eligible for admission to the freshman class. The application for admission, which includes a transcript of the high school record properly filled out and signed by the high school principal, should be on file in the Admissions Office not later than August 15 for the Fall Quarter. As the number of approved applicants approaches the plannel capacity for the Fall Quarter this deadline may be advanced on to an or near August 1. Applications for admission for the Winter and Spring Quarters should be on file in the Admissions Office not later than two weeks prior to the beginning of the quarter.

OUT-OF-STATE RESIDENTS

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

TRANSFER APPLICANTS

An applicant for admission who has already attended another institution of college rank may not disregard his collegiate record and apply for admission as a first-time freshman. (See inside front cover for application procedure.)

Transfer students (Colorado residents) who may be on probation or suspension from the institution previously attended cannot be admitted until they have been approved by the Admissions Committee. In such cases the applicant must address a written petition to this committee describing the circumstances leading up to the probation or suspension status and any significant changes in these circumstances that would indicate that a successful record might be established at Mesa College. No applicant who is on suspension from another institution will be considered for admission to Mesa College until at least one regular academic term has elapsed between the effective date of his suspension and his proposed date of admission. Out-of-state transfer applicants must be in good standing at the collegiate institution most recently altended 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 Admissions Office a transcript of all college work sent from each institution attended. Transfer students will be required to take the ACT test prior to registration unless the test has been taken previously and an official record of the scores are on file with the Director of Admissions. Such test scores are not a regular part of the official transcript and are released by your former school only at your specific request. A high school transcript is required of all transfer students.

HEALTH CERTIFICATE AND RESIDENCE AFFIDAVIT

Students entering Mesa College for the first time are required to send 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.

These two items are required before acceptance is granted.

ADMISSION OF VETERANS

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

The college is approved by the Veterans Administration for the education and training of veterans under Public Law 894 and others.

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

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

NOTE—Students who wish to qualify for Veterans Administration benefits should come prepared to finance their living expenses for a period of sixty days. This is the normal length of time required to set up a veteran's file in the regional office and for the issuance of monthly checks. All veterans must present a photostatic copy of their discharge in order to be excused from the Physical Education requirement.

ADMISSION OF SPECIAL STUDENTS

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

REGISTRATION AND COUNSELING TESTS

The college admission tests of the American College Testing (A.C.T.) Program are required of all new students prior to registration at Mesa College. It is recommended that prospective students take these tests during their senior year. Transfer students should contact the registrar sufficiently in advance of registration to make arrangements to take the tests, or to have an official report of the scores from a previous administration on file prior to registration. The tests are available at designated centers throughout the state and region on five different dates, in October, December, February, May, and August.

A \$4.50 fee must be submitted with registration 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 Director of Admissions at Mesa College.

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

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

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

PROFICIENCY EXAMINATIONS

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

DIVISIONS AND DEPARTMENTS OF INSTRUCTION

Mesa College offers courses under the following divisions and departments: Agriculture, Art, Biological Science, Business, Chemistry, English, Foreign Language, General Education, Geology, Health, Home Economics, Humanilies, Mathematics and Engineering, Music, Nursing, Physics, Physical Education, Psychology and Education, Social Science, Speech and Drama, Technical and Vocational, Trades and Industry, Continuing Education.

COURSES OF STUDY REQUIREMENTS

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

REGISTRATION

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

N.C.D. COURSES

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

PREPARATORY COURSES FOR FRESHMEN

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

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

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

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CERTIFICATES, DIPLOMAS, DEGREES

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

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

GRADUATION (Minimum Requirements)

To graduate from Mesa College a student must:

- 1. Have been regularly enrolled at least three quarters including the one next preceding the time of his graduation.
- 2. Complete with an average of C or better, 93 hours, including social science or literature, 9 hours; Freshman English, 9 hours; and physical education, 3 hours; to qualify for the MESA COLLEGE DIPLOMA.

Additional requirements for an ASSOCIATE DEGREE include the specific course requirements listed on this page and on page 86 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 Director of Admissions a petition for graduation within 3 weeks after registering for the last quarter. Penalty for late filing shall be \$1.00.
- Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
- 5. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.
- 6. Be in attendance upon the Commencement exercises of his class unless a petition of absence, properly made by him to the committee on graduation, is approved by that committee.

DEGREES

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

General Requirements and The MESA COLLEGE DIPLOMA

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

Freshman English		hours
Social Science or Literatur	· · · · · · · · · · · · · · · · · · ·	hours
Physical Education		hours

Specific Requirements for the ASSOCIATE IN ARTS DEGREE

	9	hours
History or other Social Science	9	hours
Literature	9	hours
Biology or Psychology	9	hours
Approved electives		

"Specific requirements for the Associate in Commerce Degree may be found on pages 86 and 87

Specific Requirements for the ASSOCIATE IN SCIENCE DEGREE

Laboratory sci	ence and	mathematics	
Approved elect	ives		

Specific Requirements for the ASSOCIATE IN APPLIED SCIEICE DEGREE

This degree is awarded upon successful completion of one of the specially designed Vocational-Technical curricula. Graduation requirements vary with the needs of each program and can be found in the Vocational-Technical section of the catalog.

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 organization, M.E.S.A., which is affiliated with the Colorado 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.

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

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 first week in any quarter for a full-time class schedule.

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 adviser, 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 curticulum to another should not be made by a student without his adviser'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. Whenover 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 Students.

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 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 generally 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.

ACADEMIC 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 achievement is considered satisfactory when he maintains a grade-point average of 2.0 (C) or higher. If a student's academic record at the end of any quarter is unsatisfactory, the student may be placed on academic probation or suspended from the college. Reports are required to be made to local draft boards at regular intervals concerning the academic status of men students whose military service is being deferred while they attend the college.

ACADEMIC PROBATION AND SUSPENSION

Students who fail to make minimum acceptable grade-point averages for any given quarter will be placed on academic probation by the Admissions Committee for the succeeding quarter enrolled. Students failing to meet minimum prescribed academic standards for two consecutive quarters are subject to academic suspension for one or more terms. In cases of extremely low grades students may be suspended at the end of the first quarter of attendance. Students who are on academic probation are not eligible to hold office in student organizations, nor to represent the college in any regularly sponsored group or activity.

EXAMINATIONS

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

GRADE REPORTS

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

SYSTEM OF GRADES

Grades in Mesa College are indicated as follows: A, for superior work; B, good; C, fair; D, minimum passing; F, not passing; Inc., incomplete; S, satisfactory; U, unsatisfactory; WP, withdrawn passing; WF, withdrawn failing, M, for military credit; and TF for unapproved withdrawal.

INCOMPLETES

A grade of "incomplete" may be reported only on account of illness at the time of a final examination, or when the student for reasons beyond his control has been unable to finish all the work of the course. This grade may be given only upon agreement between the instructor and the Records Office 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.

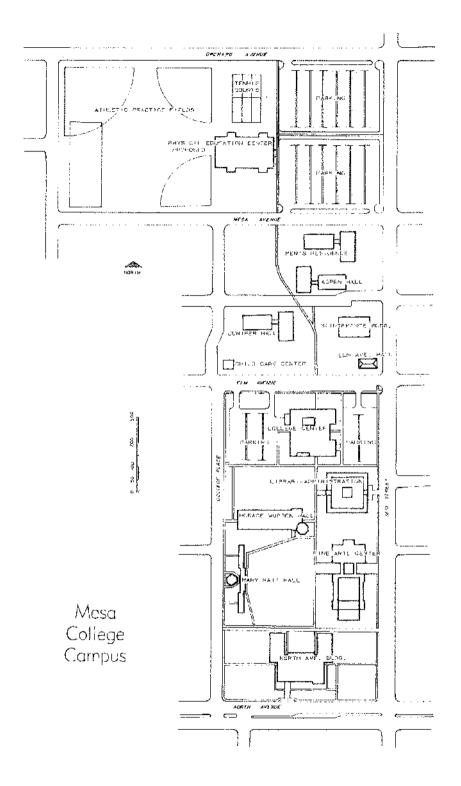
WITHDRAWAL FROM COLLEGE

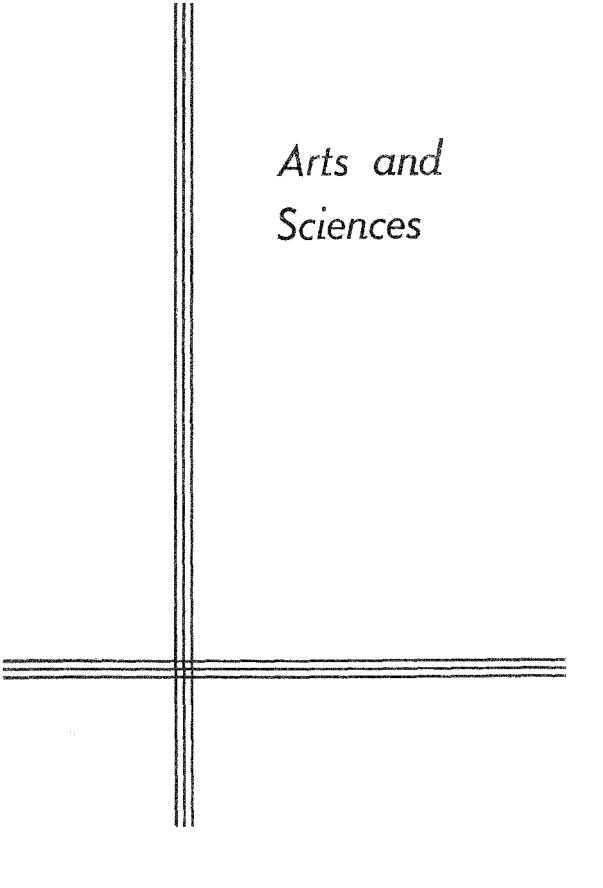
A student who desires to withdraw from the college should notify his faculty advisor and report to the Office of the Dean of Students where the necessary withdrawal papers will be filled out and officially signed by the Dean of Students or one of the Associate Deans. The student will receive a grade of "WP" (Withdrawal Passing) for each course in which he is passing at the time of withdrawal, and a "WF" (Withdrawal Failing) for each course he is failing. 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.

Official withdrawal from the college will not 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.





TYPE CURRICULUMS AND COURSE DESCRIPTIONS

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

Arts and Science courses offered at Mesa College are grouped in fifteen departments or fields of study within seven major divisions. The descriptions which follow indicate the content of the course 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 (itle.

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

Orientation

Each first-time student is required to participate in the Orientation program offered during Fall Quarter for transfer students and new freshmen. This program aids the student in his adjustment to college as it deals with planning a course of study, budget of time, study habits, extra-curricular activities, social and personal adjustment. Students meet in small groups with assigned faculty advisers. Assemblies covering many of the areas mentioned above will be conducted throughout the academic year.

Specific orientation or introduction courses are required of students majoring in such areas as Agriculture, Business, Engineering, Forestry, and Home Economics.

Curriculums

Two types of general curriculums are suggested on the following page. For students who have definite majors in mind, additional suggested curriculums will be found at the beginning of the catalog sections devoted to the respective academic divisions. The curriculums found within the respective divisions represent sample or type curriculums to assist students in planning programs related to a certain subject-matter area and are not allinclusive. There are sufficient course offerings throughout the various divisions to provide many other subject matter and vocational areas in which students may secure one or two years of lower-division course work at Mesa College. Following are some suggested subject-matter areas for which specific sample curriculums will not be found but which can be provided for by substituting appropriate courses available within the division in some of the existing suggested curriculums:

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

GENERAL CURRICULUMS

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

GENERAL EDUCATION (Terminal)

Associate in Arts

FIRST YEAR

Fall Quarter	Hears	Winter Quarter	Henry	Spring Quarter	Hours
English 11 Electives Music 24 Psychology 21 Physical Education		Maglish 12 Electives Psychology 22 Music 25 Art 44 Fhysical Education	. 5 3 2	English 13 Electives Music 26 Psychology 23 Speech 11 Physical Education	5 2 3 3
	14		15		37

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Rours	Spring Quarter	Rears
History Science Elective Literature		History Science Elective Literature		History Psychology 33 Science Elective Laterature	
	36		16		16

GENERAL LIBERAL ARTS (Transfer)

Associate in Arts

FIRST YEAR

Fail Quarter	Hours	Winter Quarter	Bours	Spring Quarter	Liouts
English 11 Soc. Sci. or Life		English 32 Soe, Sci. or Lit.		English 13	
Chemistry or Geol.	5	Chemistry or Geol.	S	Soc. Sol. or Lil. Chemistry or Geol.	
Mathematics 10 or 23 Psychical Education		Mathematics 15		Mathematics 20 Elective	
		Physical Education	. 1	Physical Education	
	15		16		16

Note: A foreign language is advised if the student is planning on two years of a language is his course of study.

SECOND YEAR

Fall Guarler	Renzs	Winter Quarter	Hours	Spring Quarter	Rours
Literature Psychology 23 Foreign Language Soc. Science Elective		Literature Psychology 22 Forcign Language Soc. Science		Litetaturo Psychology 23 Foreign Language Soc. Science Floctive	
	372		17	JACCEIV)6

Note: First-year language may be substituted for maihematics or science by those students who prefer to complete two years of language at the janior college level.

Division of Fine Arts

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

fustructional Staff: Mr. Redden, Chairman; Mr. Blackburn, Read, Department of Music, Mr. Cody; Mr. King; Mr. Metcali; Mr. Meyers; Mr. Robinson; Mr. Weaver.

ART

Associate in Arts

FIRST YEAR

Fall Guarier	Hours	Winter Quarter	Mours	Spring Quarter	Hours
Euglish 11 Sec. Sei, or Lát Art 16 Art 41 Art 11 Physical Education		English 12 Sac. Sci. or Lik. Art 15 Art 42 Act 12 Physical Education Elective		English 13 Soc. Sci. or Lit. Art 15 Art 43 Art 43 Physical Education Flective	3 3 3 2 2 1 2
	15		17		17

SECOND YEAR

Fali Quaries	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Lit, or Soc. Sci Psychology 21 Ari 61 Ari 71 Science U	J % ∦		3 3 3	Lit. or Soc. Sci	- 3 - 3 - 3
	15		15		15

MUSIC

Associate in Arts

FIRST YEAR

Fall Quarter English 11 Music 14 Applied Music Soc. Sci. or Lit. Music 21 Music 24 Ensemble	3 1 2 3 1	Winter Quarter English 12 Music 15 Applied Music Soc. Set. or Lit Music 22 Music 25 Ensemble	3 3 1 2 3 3 1 2 3 1 2	Spring Quarter English 13 Music 16 Music 19 Applied Music Soc. Sci. or Lit. Music 23 Music 26 Ensemble	3 3
Ensemble Physical Education		Ensemble Physical Education		Ensemble Physical Education	
	17		17		17

SECOND YEAR

Foll Quarter Hours Physchology 21 3 Music 51 3 Applied Music 3 3 Science 11 3 Soc. Sci. or Lit. 3 Exaserable 1 Conducting 1	Winter Quarter Hours Psychology 22 3 Music 52 3 Applied Music 3 Science 12 Soc. Sci. or Lit 3 Ensemble 1 Conducting 1	Spring Quarter Honrs Psychology 23 3 Music 53 3 Applied Music 3 Science 13 3 Soc. Sci. or Lit, 3 Ensemble 1 Conducting 1
17	17	17

Art

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

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

11, 12, 13. FREEHAND DRAWING

FWS. 2 hours.

A basic course emphasizing art principles in outdoor sketching, drawing of still-life groups, and work from casts. Individuality is encouraged and interpretations expressed in various media, such as pencil, charcoal, pen and ink, colored chalks, lithograph and conte crayons. Part of the laboratory work is done outdoors where the student is trained to see, comprchend, 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.

25, 26, 27. COMMERCIAL DESIGN AND ILLUSTRATION

Emphasis on design concepts in relation to advertising. Use of lettering in conjunction with total design. Basic development of pen and brush lettering, magazine illustration and reproduction. Prerequisites: Art 11, 12, 13, and Art 14, 15, 16. A minimum of four of the above courses.

31. LETTERING

Skills in pen and peneil 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 Jinoleum blocks.

41, 42, 43. HISTORY OF ART

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

44, 45. ART APPRECIATION

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

51. WATERCOLOR PAINTING

Emphasis will be placed upon the study of form and composition as the student learns to apply various methods of watercolor rendering. Prerequisite: Art. 13.

55, 56. INTRODUCTION TO SCULPTURE

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.

FWS. 3 hours.

FW

FWS. 3 hours.

2 hours.

WS. 2 credits.

FW. 2 hours.

FWS. 3 hours.

WS. 2 hours.

F. 2 hours.

WS. 2 hours.

61, 62, 63. APPLIED DESIGN

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

71, 72, 73. PAINTING AND COMPOSITION

Composition is stressed in creative problems; understanding of light and dark massing gained through preparatory designs for paintings. Oil and synthetic materials are studied and paintings executed in full color. Six laboratory hours per week. Prerequisites: Art 11, 12, 13 and Art 14, 15, 16.

81, 82, 83. PRINTMAKING

Basic skills and application of major printmaking media. Woodcuts, drypoints, collographs and etchings will be executed in black and white and in color. A general survey of the history of printmaking will be discussed.

Drama

17. 18. 19. PLAY PRODUCTION

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

31, 32, 33. HISTORY OF THEATRE

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.

34, 35, 36. DEVELOPMENT OF THE CINEMA FWS.

Through the medium of classic films, this course explores the techniques and history of the moving-picture industry. The first quarter is devoted to the American film, the second quarter to the foreign film, and the third quarter to the documentary and the art film.

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

This course introduces and acquaints the student with the fleatre 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 technics. The third quarter is an introduction to the directing of plays.

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

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

FWS. 3 hours.

FWS. 3 hours.

2 hours.

FWS.

FWS. 1 hour.

FWS. 2 hours.

2 hours

ws 2 hours.

This course is designed to introduce the student to the principles and techniques of acting through pantomime, improvisation, and performance of solo, duo, and group scenes. It will be offered on demand (minimum of ten students). Prorequisites: Drama 41, 42, 43 or permission of the instructor.

Music

THEORY, HISTORY, AND EDUCATION

11, 12, 13. MUSIC APPRECIATION

51. 52. BEGINNING ACTING

A study of famous composers and compositions. Encourages an interest in concert music. Course designed for non-music majors, students who are not musicians but wish to increase their knowledke of music. All types of music from early masters to contemporary jazz are considered.

14, 15, 16. ELEMENTARY THEORY

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. STRING CLASS

This course provides classroom instruction to beginners in bowed strings, including violin, viola, cello, bass.

24, 25, 26, HISTORY OF MUSIC

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

27, 28, 29, PIANO CLASS

This course provides classroom instruction to beginners in piano.

31, 32, 33. WOODWIND CLASS

This course provides classroom instruction to beginners in woodwinds.

41, 42, 43, BRASS CLASS

This course provides classroom instruction to beginners in brass instruments.

FWS. 2 hours.

FWS. 1 hour

FWS. 2 hours.

FWS.

FWS.

FWS. 1 hour.

1 hour.

1 hour.

3 hours.

FWS.

51, 52, 53. ADVANCED THEORY

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 inclody and figured bass is stressed. Original composition is practiced and encouraged. Drill in sight-singing, and melodic and harmonic dictation is continued from the first year program.

67, 68, 69. CONDUCTING

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.

10, 20, 30. STAGE BAND

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

31. 42. 33. COLLEGE BAND

Open to all students who demonstrate sufficient ability to study, rehearse, and present advanced forms of concert and show band literature. This band performs at home football games and basketball games and on occasion may accompany the team for an out-of-town game.

37, 38, 39, INSTRUMENTAL ENSEMBLE

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

The Mea College Civic Symphony Orchestra draws its personnel from the professional, amateur, and student musicians of Grand Junction and other Western Slope communities. At least two con-certs 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

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

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.

FWS. 3 hours.

FWS. 1 hour.

FWS. 1 hour.

FWS. ½ hour.

FWS. 1/2 hour.

FWS. 1/2 hour.

FWS. 1 hour.

FWS. 1/2 hour.

51, 52, 53. PIANO ACCOMPANYING

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

54, 55, 56. MEN'S CHOIR

Open to any male student interested in singing popular and unusual Men's Choir literature. Class voice training is offered. Tryouts are not required. Selected singers will be used for performances.

57, 58, 59. COMMUNITY CHOIR

Open to college students and community members, and performs the largest choral works with the community orchestra. Handel's MESnot required. Selected singers will be used for performances.

49, 50, 69, COMMUNITY CONCERT BAND

The band is a performing organization that is open by audition to all interested students and citizens of the community. The band performs the finest standard and contemporary music literature that is composed for concert band. Regular concerts are held at Mesa College and in other selected communities.

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 \$10 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. 29), the fee must be paid directly to that instructor in advance.

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

11, 12, 13.	VOICE	FWS. 1, 2, 4 hours.
14, 15, 16.	PIANO	FWS. 1, 2, 4 hours.
17, 18, 19.	ORGAN	FWS. 1, 2, hours.
21, 22, 23.	STRING INSTRUMENT	FWS. 1, 2, 4 hours.
24, 25, 26.	BRASS INSTRUMENT	FWS. 1, 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.

FWS. 1/2 hour.

FWS. 1 hour.

FW. 1/2 hour.

FW. 1/2 hour.

Division of Health Programs

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

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

Early application is essential.

Instructional Staff: Miss Maser, Chairman; Mrs. Dickenson; Mrs. Hegglund; Mrs. Hill; Mrs. Minion; Mrs. Morrow; Mrs. Schunann; Mcs. Sommers.

NURSING (R.N.)

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Chemistry 41	3	English 11	3	English 12	3
Biology 14		Biology 15		Biology 53	5
Fsychology 21		Psychology 22		Psychology 33	3
*Nursing 11		Home Economics 12		Nursing 33	
Physical Education .	k	Nursing 22		Physical Education	1
		Physical Education	1		

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SUMMER --- Eight Weeks

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Nursing 44 (Psychiatric Nursing) 6 Hours

at Fort Logan Mental Mealth Center, Denver, Colorado

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 13 Nursing 51 Sociology 61	. 8	Nursing 52 Sociology 62 Electives		Speech 11 Nursing 63 Norsing 73 Effectives	8
	14		14		17

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

Assisting

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NURSING*

(Transfer)

Full Quarter	Rours	Winter Quarter	Hours	Spring Quarter	Rours
English 11 Chemistry 21 Psychology 21 Sociology 61 Physical Education	5 3 3	English 12 Chemistry 22 Psychology 22 Sociology 62 Kome Recommiss 12 Physical Education	5 3 5	English 13 Psychology 33 Psychology 23 Sociology 63 Physical Education Elective	
					anana.
	15		18		16

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

MEDICAL OFFICE ASSISTANT

Associate in Commerce

FIRST YEAR

Fall Quarter Hours Winter Quarter Hours Spring Guarter Hours English 11 3 English 12 3 Biol. 53 (Micro) 5 Biol. 14 (Human Biol. 15 3 Biol. 53 (Micro) 5 Anat. & Phys.) 5 Typing 14 (Inter- & Develop.) 3 Filing 42 2 mediate) 3 Beg. Dictation 23 Psychology 21 3 Business Mach. 22 2 or stanuscripi 4 Phys. Educ. 1 Psys. Educ. 1 Phys. Educ. 1 14 15 15 15 15						
Biol. 14 (Human Biol. 15 3 Psych. 33 (Growth Anat. & Phys.) 5 Typing 14 (Inter- 5 Develop.) 3 Filing 42 2 mediato) 3 Beg. Dictation 23 Psychology 21 3 Business Mach. 52 2 or stanscripi 4 Phys. Educ. 1 Psychology 22 3 Med. Terminology 2 Phys. Educ. 1 Phys. Educ. 1 Phys. Educ. 1	Fall Quarter	Hours	Winter Quarter	Hours	Spring Guarter	Hours
Filing 42 2 mediate) 3 Beg. Dictation 23 Psychology 21 3 Business Mach. 22 2 or stenascript 4 Phys. Educ. 1 Psychology 22 3 Med. Terminology 2 Phys. Educ. 1 Phys. Educ. 1 Phys. Educ. 1			Biol. 15		Psych. 33 (Growth	i
Psychology 21 3 Business Mach. 22 2 or stemscripi 4 Phys. Educ. 1 Psychology 22 3 Med. Terminology 2 Phys. Educ. 1 Phys. Educ. 1 Phys. Educ. 1						
Phys. Educ. 1 Phys. Educ. 1	Psychology 21	3	Business Mach. 22		or stensoripi	4
	Phys. Educ.					
				15		15
SECOND YEAR			SECOND Y	EAR		
Fall Quarter Hours Winter Quarter Hours Spring Quarter Hour	Fall Quarter	Hours	Winter Quarter	Rours	Spring Quarter	Hours
Sociology 61						
Bas. Corres. 11	Bus. Corres. 21	B	(Mach, Transcrip	tion) 3		
Chem. 41 (lutro, to Lab. Techniques 3 Soc'y Acct. 13 3 Org. & Biu.) 3 Secretarial Pract. 3 Business 41 4					Business 41	
Laboratory Techniques 3 Elective	Laboratory Technique	\$ 3			Med. Office	

Nursing (R.N.)

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Elective

Initiated in September 1962, this program is fully approved by the Colorado Board of Nursing. Upon completion of the prescribed course of study, the graduate receives the Associate in Science degree and is eligible to take the examination for licensure as a Registered Nurse.

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

Laboratory experiences are planned with St. Mary's Hospital, Veterans' Administration Hospital, and other health and welfare agencies in the community. An eight-week course in psychiatric nursing is scheduled for the summer following the first academic year, at the Colorado State Hospital in Pueblo.

Admission is based on a strong high school background, including chemistry. Preference is given to those in the upper half of the high school class, with an ACT composite score above the 35th percentile. Students are expected to have at least a 2.00 grade average in nursing course at the end of Spring Quarter, first year, in order to continue in the second year.

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 prob-Icms within the scope of her ability to solve. Three class hours; six laboratory hours.

22. NURSING OF 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. Three class hours; six laboratory hours.

33. MATERNITY NURSING

The student learns to care for mothers in the pre- and post-partum period as well as during labor and delivery, and for the infants. She views the life-cycle from the focus of the family, and learns to teach parents in the care of themselves and their infants. Experience is gained in the hospital and in other health and social agencies where mothers and infants are found. Three class hours; six laboratory hours.

44. PSYCHIATRIC NURSING

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 Colorado State Hospital in Pueblo. This time is devoted to intensive learning in relation to patients with mental and emotional disturbances. Five class hours; 18 laboratory hours.

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

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

63. PROBLEMS IN NURSING

Content is aimed toward meeting needs of students in completing the program. Student cares for patients requiring a variety of nursing measures and a higher degree of knowledge, judgment, and skill. Three class hours, 15 laboratory hours.

73. TRENDS IN NURSING

This course brings together the past development of the profession. its current situation, and the way these may determine its future development. Each student is encouraged and assisted to assume her role as a registered nurse.

W. 5 hours.

Summer. 6 hours.

S. 8 hours.

S. 3 hours.

S. 5 hours.

F. 5 hours

Medical Office Assistant

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

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

47. MEDICAL TERMINOLOGY

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

54, 55. LABORATORY TECHNIQUES

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

59. MEDICAL OFFICE ASSISTING

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

Practical Nursing*

31, 32, 33, 34. PRACTICAL NURSING

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

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

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

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

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

All-College fee for in-district students ______ \$53 per quarter (See page 27 for out-of-district tuition.)

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

F. 2 hours.

FW. 3 hours.

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FWS Summer. 15 hours.

- Art of country.

3 hours.

Division of Humanities

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

For suggested curricula see General Education and General Liberal Arts, Page 43

Instructional Staff: Mr. Showalter, Chairman; Mrs. Best; Miss Bryant; Mr. Frohock; Miss Fulghum; Mr. Johnson; Miss Luy; Mr. Dau MacKendrick; Miss Moor, Head, Department of English; Mrs. Peck; Mrs. Robinson: Mr. Standard; Mrs. Stone; Mrs. Volpe; Mr. Mountain, Director, Foreign Language; Mr. Pikentor; Mr. Sowada, Mr. Robinson, Read, Department of Speech and Drama; Miss Huffer; Mr. Weaver; Mrs. Shaw, Director, Reading Laboratory.

English

4. PRE-FRESHMAN ENGLISH

This is a remedial course stressing correct sentence structure, spelling, vocabulary, and grammar. Entering freshmen who fail to make satisfactory scores on the American College Test will be required to take this course and to pass a test of college level before enrolling in English 11. Credit is not intended for transfer nor for Associate Degree requirements.

11, 12, 13. ENGLISH COMPOSITION

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 to the writing of the research paper. Required of all freshmen.

FWS. 3 hours

FWS. 3 hours.

FW, or S. 2 hours.

21, 22. WORD STUDY

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 improve-ment. A student may, with the consent of the instructor, elect English 22 without having taken English 21.

23.WORD STUDY

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

31, 32, 33. INTRODUCTION TO JOURNALISM FWS. 3 hours.

A survey course in journalism including fundamentals in news and feature writing, advertising and business operations, study of outstanding newspapers, copyreading and proofreading techniques, newspaper layout, radio writing, and history of journalism. The course also includes some work in magazine writing and writing markets.

51, 52, 53. CREATIVE WRITING

The student is directed in practice designed to develop ease in written expression. Expository writing in the Fall Quarter, with emphasis on the form and content of critical and self-analyses themes, is followed by practice in descriptive writing, the personal essay and foundations of flotion 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. Prerequi-site: English 11, 12, 13 or English 11 and 12 with permission of instructor.

THEORY OF COMMUNICATION VT 31.

For course description, see Educational Media Technician program in Vocational-Technical section.

Literature

31. 32. 33. WORLD LITERATURE

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 (Classical)

This is a one quarter course offered to acquaint the student with the basic stories of Greek and Roman mythology which have been quoted so universally that a knowledge of them is essential to literary appreciation. Open to freshmen and sophomores. Offered Fall and Spring quarters.

MYTHOLOGY (Medieval) 35,

This is a one-quarter course in Norse, Oriental, and Medieval Mythology. It aims to acquaint the student with the early cultures of other races as well as some of the famous stories of medieval Europe upon

S. 2 hours.

FWS. 3 hours.

FS. 2 hours.

W, 2 hours.

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W. 3 hours.

3 hours.

FWS.

which many of our masterpieces of literature are based. Open to freshmen and sophomores. Offered WINTER QUARTER and on demand.

41. FICTION

This study of novels by American. English and European authors of the nineteenth and twentieth centuries aims to broaden the student's knowledge of some 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.

42. POETRY

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.

DRAMA 43.

FWS, 2 hours.

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

44. BIOGRAPHY

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

Note. The series 41, 42, 43, 44 may be used toward fulfillment of the 9-hour literature requirement for graduation.

51, 52, 53. SURVEY OF ENGLISH LITERATURE FWS. 3 hours. A course in the development of English poetry and prose from Beo-

wulf to the present. The literature is presented against its political and social backgrounds. This course is designed to meet the requirements of those planning to major in English literature. Prerequisite: English 12.

61, 62, 63. UNITED STATES LITERATURE FWS. 3 hours This course consisting of three quarters presents the development of American prose and poetry from the seventcenth century to the present. It aims to develop appreciation of liferature and to increase the student's understanding of America as it is today through knowledge of the thought and culture of the past. Credit will be given for any single quarter. Prerequisite: English 12.

Philosophy

51, 52. INTRODUCTION TO PHILOSOPHY

A study of the basic problems of philosophy. This is done by an examination of central issues: reality, truth, beauty, art, cosmos, faith, knowledge, ethics, morality. Selected readings from great philosophers. Lectures, readings and discussion. No prerequisite; either or both courses may be taken.

FWS. 3 hours.

FWS. 2 hours.

WS. 2 hours.

FWS.

3 hours.

Reading

1. READING LABORATORY

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

2. READING SKILLS

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

13. READING IMPROVEMENT

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

14. ADVANCED READING IMPROVEMENT

This course is for the above average reader who wishes to increase speed and precision in reading. Prerequisite: Reading 13 or permission of instructor.

Speech

11, 12, 13. FUNDAMENTALS OF SPEECH

Speech 11 is a basic course in speech designed to aid the beginning speech student in acquiring poise, ease and effectiveness in speaking. Emphasis is placed on platform behavior, diction, delivery and speech organization.

Speech 12 places emphasis on the organization and delivery of the various types of speech, i.e. convincing, persuasive, informative, entertaining speeches. Speech 12 is open to any freshman or sophomore who has completed Speech 11 or who has successfully completed two years of high school speech with an overall B average.

Speech 13 is a continuation of Speech 12 with greater emphasis upon the longer speech, i.e. after dinner speaking, public address and book reviews, plus a study of classical speeches.

15. ORAL INTERPRETATION

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

16. VOICE AND DICTION

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

FWS. 3 hours.

S.

F., W. or S. 3 hours

3 hours.

FWS. I hour.

FWS. 1 hour.

WS.

i hour.

FWS. 1 hour.

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A service .

23. RADIO-TELEVISION SPEECH

Microphone techniques and radio announcing for all students interested in improving their oral reading. Communication of ideas, voice control and general American pronunciation. Tape-recorded projects.

24. RADIO-TELEVISION WRITING

Analysis and preparation of station announcements, program formats, commercials, news, musical introductions and short plays.

25. TELEVISION PRODUCTION

Analysis and preparation of short television programs,

27. 28. DEBATE

Instruction and participation in Acgumentation, Debate, Original Oratory and Extemporaneous Speaking with an opportunity to enter intercollegiate competition.

29. PARLIAMENTARY PROCEDURE

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

51, 52. DEBATE

This is a continuation of Debate 28, 28,

53. DISCUSSION

This course is primarily designed to teach the student fundamentals and techniques of problem solving through cooperative group discussion efforts. Emphasis will be placed on committee membership aims and techniques.

Foreign Language

Students who have had some foreign language in high school should check with the instructors regarding placement. Since some four-year schools now require two years of study in the same foreign language, departmental instructors recommend that the student begin his study of a foreign language during his freshman year so that he will have continuity of study under the same instructor with the same method and similar materials. The foreign language department operates a laboratory consisting of a monitoring console and fifteen student booths, each equipped with a dual-channel tape recorder, earphones, and microphone. Each student works individually in his respective language by imitating the language of native speakers on specially prepared tapes on which the student records his own voice also for practice in speaking and for comparison with the language of the native speaker.

FRENCH

11, 12, 13. FIRST YEAR FRENCH

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

E, 3 hours.

3 hours.

W.

S. 3 hours.

FW. 3 hours.

FS. 2 hours.

3 hours.

FW.

S. | 3 hours.

FWS. 5 hours.

FWS. 3 hours.

51, 52, 53. SECOND YEAR FRENCH

This course emphasizes practice in the oral use of French through conversation and discussion based on the texts, 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; 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.

61, 62, 63. INTRODUCTION TO FRENCH LITERATURE FWS. 3 hours. This course is a survey of French literature from La Chanson de Reland to authors of the twenticth century. Students may enroll in either the Winter or Spring quarters without having taken the course the preceding quarter. This course meets the literature requirement. for Mesa College. Prerequisite: a good knowledge of French (French 51, 52, 53 or equivalent) or permission of the instructor. Open to freshmen who qualify.

GERMAN!

11, 12, 13. FIRST YEAR GERMAN

A three quarter sequence designed to develop basic skill in the understanding, speaking, reading, and writing of German. Initial emphasis is given to the development of the skills of understanding and speaking. As the program advances, emphasis is also given to the skills of reading and writing.

51, 52, 53. SECOND YEAR GERMAN

A review and continuation of German grammar, with further practice in understanding, speaking, reading, and writing. Selections of German literature from the earliest beginnings to modern times will be studied. Prerequisite: two years of high school German or one year of college German. Open to freshmen who qualify.

SPANISH

11. 12. 13. FIRST YEAR SPANISH

A three quarter sequence designed to develop basic skill in the understanding, speaking, reading, and writing of Spanish. Initial emphasis is given to the development of the skills of understanding and speaking. As the program advances, emphasis is also given to the skills of reading and writing.

51. 52, 53. SECOND YEAR SPANISH

A review and continuation of Spanish grammar, with further practice in understanding, speaking, reading, and writing. Readings are selected from standard Spanish and Spanish-American authors. Prerequisite: two years of high school Spanish or one year of college Spanish. Open to freshmen who qualify.

SPANISH CONVERSATION AND 61, 62, 63. COMPOSITION

An advance class stressing the building of a practical vocabulary and the use of oral and written Spanish in situations representative of contemporary living. Prerequisites: Spanish 53, four years of high school Spanish, or upon consultation. Open to freshmen who qualify

FWS. 5 hours.

FWS. 5 hours.

FWS. 3 hours.

FWS. 3 hours.

FWS. 3 hours.

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Division of Physical Education

The Division of Physical Education provides an instructional program in physical education activitics. 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.

Instructional Staff: Mr. Nelson, Cheirman: Mr. Bergman: Mrs. Humphrics: Mr. Perrin; Mrs. Tolman; Mr. Tooker.

PHYSICAL EDUCATION

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11 Physical Education 42 Biology 11 Soc. Sci. or Lit. Physical Education Orientation	3 3 5 1 1	English 12 Soc. Sci. or Lit. Science 12 Biology 12 Physical Education Physical Education 43	3 3 3 1	English 13 Biology 13 Soe. Sci. or Lit. Science 13 Physical Education Physical Education 41	3 3 3 1 1
Science 11	17		16		15

SECOND YEAR

Fall Quarter	E curs	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21 Biology 14 See, Sci. or Lil Elective	5 3	Psychology 22 Riology 15 Sociology 62 Soc. Sci. or Lif Elective		Psychology 23 Education 51 Sociology 63 Soc, Sci, or Lit, Elective	3 2 3
	_				
	16		16		16

Physical Education

PEM 11, 12, 13. PHYSICAL EDUCATION FOR MEN FWS. 1 hour.

Activities vary according to season and include one or more of the following: tennis, football, touch-football, basketball, tumbling, gymnastics, vollcyball, softball, baseball, track, wrestling, social dancing, folk and square dancing, howling, skiing, and golf. Participating students provide their own personal equipment.

PEW 11, 12, 13. PHYSICAL EDUCATION FOR WOMEN FWS. 1 hour.

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

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

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

20. FIRST AID

W. 3 hours.

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

41. PERSONAL AND COMMUNITY HEALTH S. 3 hours.

Designed to develop proper attitudes and practices which will contribute to the fine art of living on both an individual and a community basis. Emphasis is placed on the major health and safety problems of the college years and also on health problems which require community action.

42. INTROBUCTION TO PHYSICAL EDUCATION F. 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.

43. OFFICIATION AND MANAGEMENT OF SPORTS W. 3 hours.

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

Division of Science and Mathematics

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

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

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

Instructional Staff: Mr. Weldon, Christman: Mr. Alimaras; Mr. Balley; Mr. Boge; Mr. Britton, Mrs. Coakley; Miss Coleman: Mr. Davis; Mrs. Eddy: Mr. Endsley, Head, Department of Biology; Mr. Fynn; Mr. Hannah; Mr. Hawkins; Mr. Henson; Mr. Holder; Mrs. Kurkle; Mrs. Leighton; Mr. Lenc; Mr. Luke; Mr. Murray; Mr. McNew, Head, Department of Chemistry; Mr. Phillips; Mr. Putnam; Mr. Rice; Mr. Roadifer; Mr. Scott; Mrs. Sullivan; Mr. Young; Mrs. Young;

AGRICULTURE

AGRICULTURE SCIENCE*

Associate in Science

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

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biology 21 English 11 Chemistry 21 Mathematics 10 Agriculture 1	3 5 3	Biology 22 English 12 Chemistry 22 Mathematics 15 Fhysical Education	3 5 3	Biology 23 English 13 Chemistry 23 or 3 Mathematics 20 Physical Education	3 3 3 1 1
	17		17		17

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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

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Heurs
Agriculture 11 Biology 21 English 11 Agriculture 1 Physical Education	5 3 1	Agricalturo 42 Agricalture 62 English 12 Biology 22 Physical Education	2.3 	Agriculture 23 Agriculture 33 English 13 Speech 11 Pbysical Education	
	15		17		3 18

"Consult with connsoler to plan a program that will best meet individual transfer needs for second-year curriculum. Suggested electives for the Agriculture Science major: American Covernment, World Civilizations, Speech, Literature, Economics. Suggested electives for the Applied Agriculture major: Agriculture 12, Agriculture 56, Mathematics 19, 15, 20; American Government, World Civilizations, Literature, Chemistry 21, 22, 23.

TERMINAL AGRICULTURE

Students who plan to terminate their formal education with study at Mesa College may follow a course of study of their own choosing. Such a course may lead to a Mesa College Diploma or Associate Degree. (See page 35.)

BIOLOGICAL SCIENCES

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Chern 31 Biol 11. or 21 Math 10 Engl 11	35 . 3	Chem 32 Biol 12, 22, or 31 Math 15 Engl 12 P.E	. 7×5 3 	Chem 33 Biol 13, 23, or 32 Math 20 Engl 13 F.E.	3-5 3 3
	15-17		15-17		15-17

SECOND YEAR

Fall Quarter	Houss	Winter Quarter	Rours	Spring Quarter	Hours
Soc Sci or Lit Biol 51 Elective		Soc Sei or Lit Biol 52 Elective		Soc Sci or Lit. Biol 53 Elective	
or Chem 31		or Chem 32	. 5	or Chem 33	5
Elective P.E.	2	Elective		Elective	2
	4544				
	16		.16		15

16

Hours

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CHEMISTRY

Associate in Science

FIRST YEAR

Fail Quarter	Hours
English 11 Chemistry 31 Mathematics 28 History 11	

Fall Quarter

Winter Quarter	Hours	Spring Quarter	Hours
English 12 Chemistry 32 Mathematics 29 History 12 Physical Education	5 5 3	English 13 Chemistry 33 Mathematics 30 History 13 Physical Education	
	17		17

SECOND YEAR

Winter Quarter 3	Tours
Chemistry 52 Chemistry 55 Mathematics 52 Physics 52 Elective	2
	17

Spring Quarter	Hours
Chemistry 53 Chemistry 56 Mathematics 53 Physics 53 Elective	3 2 2 2 2 2 2 2
	17

Spring Quarter

Physics 43 Chem 53 & 56 Psychology 23 Soc. Sci. or Lit. Physical Education

PRE-DENTISTRY

Associate in Science

FIRST YEAR

Fall Quarter	Bours	Winter
English 11 ChemisIry 31 Mathematics 13 or 28 Speech 14 Physical Education		Englisi Chemis Mather Biology Physic:
	16	

er Quarter	Hours	Spring Quarter	H e
ish 12 histry 32 cmatics 15 gy 31 ical Education	5 3 5	English 13 Chemistry 33 Biology 32 Mathematics 20 Physical Education	
	17		 1

SECOND YEAR

Fall Quarter	Hours
Physics 41	
Chem 51 and 54	. 5
Psychology 21	
Soc. Sci. or Lit.	
Physical Educ.	. I.
	_
	17

Fall Quarter

Geology 31 5 Chemistry 21 or 31 5 English 11 3 Math 10 or 28 3 or 5

Winter Quarter	Hours
Physics 42 Chem 52 & 55 Psychology 22 Soc. Sci. or Lit. Physical Educ.	. 5 . 3 . 3
	17

GEOLOGY

Associate in Science

FIRST YEAR

Winter Quarter	Hours
Geulogy 32 Chemistry 31 or 32 . Euglish 12 Math 28 or 29	3
	18

SECOND YEAR

Economics 51	iolog Icono peact hemí hysic

16 or 18

Hours

5

Vinter Quarter	Hours
Minlogy 22 or 31	5
Computies 52	
peach 11	. 3
hemistry 33 or 51	. 5
'hysical Education	. 1
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	17

Spring Quarter H	
Geology 33	5
Onemistry 32 cr 33	5.
English 13	3
Math 29 or 30	5
	18

Spring Quarter I	loars
Biology 23 or 32 Economics 53 Geology 51 Engineering 74 Physical Education	5 3 3 3 1
	15

Hours

35

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Hours

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ENGINEERING

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarfer	Bours	Spring Quarter	Hours
English 11 Mathematics 28 Chemistry 31 Engineering 11 Engineering 21	5	English 12 Mathematics 29 Chemistry 32 Engineering 12 Engineering 22 Physical Education	5 5 3	English 13 Mathematics 30 Chemistry 33 (pr 51 Engineering 13 Physical Education Mathematics 23	5 5 3 1
	-		11110		
	17		18		18

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

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

SECOND YEAR

Fall Quarter	Nours	Winter Quarter	Hours	Spring Quarter	Rours
Mathematics 51 Physics 51 Literature 31 or History 11 Physical Education		Mathematics 52 Physics 52 Literature 32 or History 12 Engineering 62	5 	Mathematics 53 Physics 53 Literature 33 or History 13 Engineering 63	5 3
Speech 13 or Math 60	3 17		17		17

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

PRE-FORESTRY

FIRST YEAR

Fall Quarter	BOBES	Winter Quarter	Hours	Spring Quarter	Heurs
Biol 21 Chem 21 Engl 11 *Math 10	5 3	Biol 22 Chem 22 Engl 12 Math 26	5 	Biol 23 Chem 23 Engi 13 Math 29	5 3
Forestry			 18		

* Substitute approved elective if student can begin with Math 28.

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Nonra	Spring Quarter	Routs
Geol 21 Ecen 51 Spch 1		Biol 31 Eccn 52 Geol 12		Agr 56 Physics 11	5
Humanities or Social Science	2	Humanities or Social Science	3	P.E.	1
P.E.	<u>1</u>	P.E.	i		_
	15		17		16

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HOMEMAKING (Terminal)

Mesa College Diploma

FIRST YEAR

Falí Quarter	licars	Winter Quarter	Hours	Spring Quarter	Hours
Faglish H Home Economics 15 Rome Economics 32 Art 21 Intro. to H. Reen.	5 	English 12 Home Economics 14 House Economics 16 Act 22 Elective Physical Education	2 3 5 	English 13 Home Economics 11 Home Economics 31 Home Economics 61 Physical Education Elective	. 2 3 3 . 1
	16		17 18		17

SECOND YEAR

Fall Quarter Hours	Winfer Quarter Hours	Spring Quarter Hours
Home Economics 41 3 Elective 3 Psychology 21 3 Soc. Sci. or Lit. 3 Speech 11 3 Physical Education i	Home Economics 33 2 Home Economics 42 3 Home Economics 34 2 Soc. Sci. or Lit. 3 Elective 3	Home Economics 35 3 Home Economics 53 3 Economics 43
		17

HOME ECONOMICS (Transfer)

Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Haurs	Spring Gnarter	Heurs
English 1) Hume Economics 15 Art 21 Chemistry 21 Home Economics 1	5 3 5	English 12 Home Economics 16 Art 22 Chemistry 22 Physical Education	5 	Home Economics 2 Eoglish 13 Home Economics 3 Home Economics 3 Chepalstry 23	32 3 36 3 3 2
	~~ 17		17		18
	11		11		

SECOND YEAR

Fall Quarter	Hou75	Winter Quarter	Hanrs	Spring Quarter	Heurs
Home Economics 51 Psychology 21		Home Economics 52 Psychology 22		Home Economics 53 . Biology 53	
Biology If Spc. Sci. or Lit.	3	See. Sci. or Lit. Biology 12	J	Soc. Sei. or Lit. Biology 13	3
Thysical Education		Nume Economies 12	. 3	Flective	
Speech 11	J3 	Home Economics 71.	J		
	16		36		17

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MATHEMATICS

Associate in Arts or Science

FIRST YEAR

Fall Quarier	Нонгв	Winter Quarter	Hours	Spring Quarter	Hours
Finglish 11 Mathematics 29 Chemistry 31 History 11 Orientation	ភ 5 3	Mathematics 30 . Chemistry 32	я б 3	English 13 Mathematics 51 Chemistry 33 History 13 Math 23	5 5 3
	1.6		17		1.7

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 51	5	Physics 52	5	Physics 50	
Mathematics 52	5	Mathematics 53	5	Mathematics 63	
Foreign Language	5	Foreign Language	5	Foreign Larguage	5
0r		ür		01,	
Speech 11	3	Engineering 62		Engineering 63	4
Physical Education	1	Physical Education	l	Physical Education	1
Elective	(3)	Elective	3	Elective	3
	5				
	17-19		13-19		18 19

PRE-MEDICAL*

Associate in Science

FIRST YEAR

Fail Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 11 Chemistry 31 Mathematics 28 Physical Education - Elective	5 5 1	English 12 Chemistry 32 Biology 31 Mathematics 29	5 5	English 13 Chemistry 33 Biology 32 Mathematics 30	5
	17		.18		18

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41		Physics 42 Soc. Sci. or Lit. Chem 52 & 55 Elective Physical Education	. 3 5 2	Physics 43 Suc. Sci. or Lit. Chem 53 & 56 Elective Physical Education	5 2
			· ·		
	18		16		15

"It is recommended that pre-medical students work toward a major in either biology or chemistry. Students should be aware that many medical schools are now requiring mathematics through calculus and thus it may be advisable to alter the second year program to include calculus unless the student is assured that calculus is not required.

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PRE-OPTOMETRY AND PRE-PHARMACY

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Associate in Science

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Reurs	Spring Quarter	Hours
English 11 Mathematics 28* Biology 11 Chemistry 31 Physical Education	5 3 5	English 12 Mathematics 23* Biology 12 Chemistry 33 Physical Education		English 13 Mathematics 30 Biology 13 Chemistry 33 Physical Education	5 3 5

*Students with a deficiency in mathematics will replace the indicated courses with: Math 16, Fall Quarter; Math 28, Winter Quarter; and Math 29, Spring Quarter.

SECOND YEAR* (Pre-Optometry)

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 21 Scc. Sci. er Lit Biology 51 Physics 41	3	Psychology 22 Soc. Sci. or Lit. Physics 42 Speech 11 Elective		Psychology 23 Sor. Sci. or Lit. Biology 53 Physics 43	3 5
	15		15		25

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

SECOND YEAR (Pre-Phatmacy)

Fail Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41 Economics 51 Chem 51 & 54 Speech 11	3 5	Physics 42 Economics 52 Chem 52 & 55 Non-Professional E		Physics 43 Economics 53 Chem 53 & 56 Nan-Professional El	5 5
	16				16

PHYSICAL SCIENCE*

Associate in Science

FIRST YEAR

Fall Quarter	Mours	Winter Quarter	Hours	Spring Quarter	Rours
English 11 Mathematics 28 Chem. 31 or Geol. 11 Soc. Sci. or Lik.	5 5	English 12 Mathematics 29 Chem. 32 or Geol. Soc. Sci. or Lit. Physical Education	12 5 3	English 13 Mathematics 30 Chem. 33 or Geol. Soc. Sci. or Lit. Physical Education	13 5 5
					-
	16		17		17

SECOND YEAR

Fail Quarter	Rours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 51 Mathematics 51 Chemistry 51, 51, 6	5	Physics 52 Mathematics 52 Chemistry 52, 62,		Physics 53 Mathematics 53 Chemistry 53, 63, c	5
electives Physical Education		electives Physical Education	5	electives Physical Education	5
	16		16		16

*Cousult with counselor to include lower division requirements for majors in Geology, Chemistry, Physics, or Mathematics. *Students with a deficiency in mathematics will make the same substitutions suggested in the Engineering curriculum.

Agriculture

Students enrolling for the study of agriculture at Mesa College should at the very outset decide whether they wish to take a course leading toward Agricultural Science, Applied Agriculture, or a terminal program.

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.

11. INTRODUCTORY ANIMAL SCIENCE

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

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

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

A study of the principles of field crop production with emphasis on cultural practices and botanical characteristics of crops grown in the inter-mountain region. Five hours lecture and one three-hour laboratory per week.

33. FEED AND FEEDING

Fundamentals of animal nutrition. Feeds and their uses. Calculation of rations to meet livestock requirements.

42. ECONOMIC ORGANIZATION OF AGRICULTURE W. 5 hours.

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

51. BASIC HORTICULTURE F. 5 hours. Principles of horticulture science as applied to the propagation and culture of horticulture crops, language design, and improvement of plants.

5 hours.

W. 2 hours.

2 hours.

6 hours.

F.

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S. 5 hours.

52. FRUIT PRODUCTION

Principles and practices utilized in the production, harvesting and marketing of tree and small pruits. Site selection, barvesting methods, marketing procedures and the cultural practices of planting, pollination, pruning, thinning, soil management, fertilizing and irrigation. Prerequisite: Biology 22 or Agriculture 51.

56. SOILS

A study of the formation, properties, and management of soils. Special attention is given to soil conditions that affect crop yields. Four hours lecture and three hours laboratory per week. Prerequisite: Chemistry 31 or Chemistry 21 for Agriculture students; waived for Forestry.

61. FORAGE CROPS

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

62. GENERAL DAIRY HUSBANDRY

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

Elementary anatomy and physiology of insects. A study of the life histories, and habits of the more important insect pests and recommendations for controlling them. Two classroom periods and one laboratory period per week.

Archaeoloav

31. OLD WORLD ARCHAEOLOGY

A survey of the archaeology of Eurasia and Africa with emphasis on the emergence and spread of early man and on his scientific and technologic advances up to and including the Iron Age. Basic archaeologic concepts such as excavation procedures and modern dating methods are discussed. Class meets three periods per week,

32. NEW WORLD ARCHAEOLOGY

A survey of archaeology of North, Middle and South America emphasizing origin of inhabitants, distribution of sites, changes in tools, and scientific achievements. The first portion of the course deals primarily with Paleo-Indian Traditions and the latter portion with the Inca, Myan and Aztec Civilizations. Class meets three periods per week.

33. SOUTHWESTERN ARCHAEOLOGY

A survey of archaeology of the American Southwest. The course is designed to acquaint the student with the principal pre-Columbian peoples of this region, their origins, distribution, and technological achievements. Typical sites of each culture are disclosed. Class meets three periods per week.

S. 5 hours.

S. 5 hours.

W. 3 hours.

F. 4 hours.

W. 3 hours.

W. 3 hours.

F. 3 hours.

S. 3 hours.

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Biology

11, 12, 13. GENERAL BIOLOGY

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

14, 15. HUMAN ANATOMY AND PHYSIOLOGY F. 5 hrs., W. 3 hrs. A study of the structural and function of the human body. The anatomy and physiology of the integument, skeletal, muscular, nervous, senses, circulatory, respiratory, excretory, digestive, endocrine, and reproductive systems are studied during the two quarters. Three lectures and two laboratories each week in the fall quarter, and two lectures and one laboratory in the winter quarter.

21, 22. GENERAL BOTANY

The structure and functions of the higher plants, including a study of roots, stems, leaves, flowers, and seeds during fall quarter. Study of plant forms including a study of roots, stems, leaves, flowers, and seeds during fall quarter. Study of plant forms including the algae, fungi, mosses, ferns, gymnosperms, and angiosperms during the winter quarter. Three lectures and two laboratorics per week,

PLANT TAXONOMY 23.

S. 5 hours. This is a study of the classification and identification of the flowering plants. Emphasis is placed on plant family characteristics and the use of keys for identification. Four laboratories and one lecture each week with the use of mounted specimens and many field trips. Pre-requisite: Biol. 22 or consent of the instructor.

31, 32. GENERAL ZOOLOGY

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 general-biology credit. A course for agriculture, pre-medical, veterinary, pre-dental, home economics, biology, and zoology majors.

51. COMPARATIVE VERTEBRATE ANATOMY F. 5 hours. A detailed comparative study of the organ systems of the vertebrate animals. The course includes laboratory dissection of representative animals including the dog fish, the salamander, and the cat. Three laboratory periods and two lecture periods each week. Recommended for all pre-medical, biology and pre-veterinary majors. Prerequisite: 9 hours biology, or zoology.

52. PRINCIPLES OF HEREDITY

W. 3 hours. Facts and principles of heredity as developed from the study of plants and animals. Human inheritance; genius, mental defects, in-dividual differences, as well as the principles of heredity as applied to agriculture and fivestock breeding. Open to all Sophomores,

53 GENERAL MICROBIOLOGY

S. 5 hours. An introductory course consisting of lectures and laboratory work in identification, cultivation, and isolation of molds, yeasts and bacteria, Emphasis upon non-pathogenic forms. Prerequisite: 9 hours biology, botany, or zoology.

FWS. 3 hours.

WS. 5 hours.

FW. 5 hours.

Chemistry

21, 22. GENERAL CHEMISTRY

A lecture and laboratory course in fundamental principles of chemistry and their application. The areas covered include atomic structure, bonding, periodic laws, gas laws, mass relationships, classification of compounds, oxidation-reduction, electrochemistry and ionic equilibrium. Designed for students in Liberal Arts, Nursing, Veterinary Medicine, Homemaking and Agriculture. Pre-requisites: High School algebra or satisfactory entrance examination scores.

INTRODUCTION TO ORGANIC CHEMISTRY A lecture and laboratory integrated course in fundamentals of Organic Chemistry. Pre-requisite: Chemistry 22 or 32.

31, 32. GENERAL INORGANIC CHEMISTRY FW. 5 hours.

Lecture, recitation, and laboratory. Fundamental principles and applications of general inorganic chemistry. The areas covered include atomic structure, periodic law, gas laws, mass relationships, bonding, oxidation-reduction, thermodynarcies, electrochemistry and ionic equilibrium. Designed for Chemistry, Pre-medicine, Engineering and other science majors. Math 10 or 28 must be taken prior to, or concurrently with, this course. Pre-requisites: High School Chemistry and satisfactory entrance examination scores, or Chemistry 21.

33. INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

A lecture and laboratory course designed to thoroughly acquaint the student with the equilibrium systems of Inorganic Chemistry in a theoretical and practical way with emphasis on the broad view of inorganic chemistry. Two laboratory sessions of three hours each per week. Pre-requisite: Chemistry 32 or consent of instructor.

41. INTRODUCTORY ORGANIC AND BIOCHEMISTRY F. 3 hours. A course intended primarily for students in Medical Office Assistant Program and Associate Degree Program in Nursing. Prerequisite: High School Chemistry or consent of the instructor.

51, 52, 53. ORGANIC CHEMISTRY

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

54, 55, 56. ORGANIC CHEMISTRY LABORATORY FWS. 2 hours. Laboratory exercises to accompany Chemistry 51, 52, 53. Provides experience in the preparation and reactions of aliphatic and aromatic compounds and includes syntheses of simple drugs and dyes.

61, 62. QUANTITATIVE ANALYSIS

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

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

FW. 5 hours.

S. 5 hours.

FWS. 3 hours.

S. 3 hours.

FW. 3 hours.

Engineering

BEGINNING GRAPHIC SCIENCE 11.

A course for students with little background for 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

A continuation of Graphic Science; 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. ADVANCED GRAPHIC SCIENCE

The course is designed to teach the Engineering student to apply the principles of Engineering Drawing to the solution of Engineering Problems. Force diagrams, graphs, charts and monographs are derived and constructed; the ability to solve equations of several variables by graphic means is developed. Drawing skills are "polished" by applying them to realistic situations. Prerequisites: E-11, E-12, Math 28.

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

Theory and operation of the slide rule, including use of trigonometric scales and log scales. Students must have had or must be taking concurrently a course in trigonometry.

51, 52, 53. ADVANCED TECHNICAL DRAWING FWS. 3 hours.

A course for terminal students tailored to the demands of the student's present or future employment. A course to pursue in detail and depth such subjects as perspective, working drawings, production illustration, gears and cams, structural drawing and detailing, and architectural details. The course is of a project type requiring a mature student willing to investigate all phases of his interest subject. Prerequisite: E. 13 and permission of instructor.

62. STATICS

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.

F. 3 hours.

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WS. 3 hours.

FW, 3 hours.

FW. 1 hour.

W. 4 hours.

63. DYNAMICS

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 impulsemomentum to solution of problems of force systems acting on moving particles and rigid bodies. Prerequisite E. 62 and Math 52.

71. ELEMENTARY SURVEYING

An introduction to the principals of surveying and mapping; familiarization with the basic instruments and their use. Two lectures and two laboratory periods per week. Prerequisite, Math 28 and 29.

72. SURVEYING CURVES AND EARTHWORK

The course includes calculations and field procedures for the surveying of circular, spiral and vertical curves, logether with the measurement and computation of earthwork for the construction of dams, canals, highways and railroads. Two lectures and two laboratories per week. Prerequisite: E-71,

73. ADVANCED SURVEYING

The course provides instruction and practice in the determination of Latitude, Longitude and meridianal direction by astronomical observation. It also includes field and office procedures for Land Surveying, route center - line surveying and construction surveying. The establishment of primary horizontal and vertical control by triangulation is also covered. Two lectures and two laboratories per week. Prerequisites, E-71 and E-72.

74. TOPOGRAPHICAL SURVEYING

The fundamentals of map-making. Teaches the use of the Plane Table and Alidade, basic-control, contour mapping, map reading. Taught primarily for non engineers who are students in related fields; i.e., Forestry, Geology, Archaeology, etc. Offered only if sufficient demand. Three lectures and one laboratory period per week. Prerequisites: Math 10 or equivalent.

Forestry

3. FORESTRY OCCUPATIONS

An orientation program designed to acquaint the student with the varied forestry professions and job characteristics. Required of all pre-forestry students.

12. PRINCIPLES OF CONSERVATION

A survey of natural resources including forests, range, minerals, water, and wildlife. National, state and local policies and programs for the use of such resources. This course is open to all students. Three lectures per week.

22. MAP DRAFTING AND READING

A one quarter course intended for students not taking a full year's program in drafting. Lettering and use of elementary drafting equipment, Maps, their construction and interpretation is included. The course meets for two hours lecture and two hours laboratory per week.

S. 4 hours.

F. 3 hours.

W. 3 hours.

S. 3 hours.

F. 1 hour.

FW. 3 hours.

FS. 3 hours.

W. 2 hours.

FWS. 5 hours.

Geology

21. 22, 23. GENERAL GEOLOGY

A general approach to broad aspects of geology and closely related fields. A study of earth materials and processes that modify the earth is covered during fall and winter quarters. In spring quarter special consideration is given to the origin of the earth, to physical changes and to evolution of life forms throughout earth history. Designed for non-science majors who need a laboratory science. Should be taken in sequence. Four lectures and one laboratory or field trip per week.

31. 32. PHYSICAL GEOLOGY

A more thorough study of the earth, its materials, the development of landforms and the geologic processes involved. Common minerals and rocks and interpretation of topographic maps are studied in laboratory. Four lectures and one laboratory or field trip per week. One all-day field trip to study local geological features. Primarily for geology majors and minors, forestry, engineering, and other science majors.

HISTORICAL GEOLOGY 33.

A study of the history of the earth from its origin to the present, including the evolution of life forms in the fossil record. A more intense treatment of historical geology than that considered in Geological Science. Four lectures and one laboratory per week. One all-day field trip. Prerequisite: Geology 31, 32,

51. ROCKY MOUNTAIN GEOLOGY

A study of the physical and historical geology of the Western Colorado region, primarily in the field. One lecture per week and one 3-hour laboratory plus four all-day field trips and four half-day field trips. Prerequisite: Geology 33.

Home Economics

1. ORIENTATION (Introduction To Home Economics) **F**'. 1 hour. For Home Economics majors to explore opportunities in all fields of Home Economics. Some emphasis is placed on the use of time and study habits which will help the student to get the most from college.

10. CLOTHING

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

11. COSTUME SELECTION

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

12. NUTRITION

The study of the functions of foods and its relation to health. Emphasis is placed on the application of nutrition knowledge to the selection of food.

15. TEXTILES

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

FW. 5 hours.

S. 5 hours.

3 hours. S,

3 hours.

F.

FWS. 2 hours.

FW. 3 hours.

FS. 5 hours.

16. CLOTHING CONSTRUCTION

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

32. HOME MANAGEMENT

Study of family-living problems with emphasis on management of all resources. Three hours lecture.

33. HOUSE PLANNING

A combination lecture and laboratory course which involves the analyzing and evaluating of house plans as well as developing plans which the student can use.

34. INTRODUCTION TO CHILD CARE F. 3 hours.

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

35. PRE-SCHOOL LABORATORY

S. 2 hours The course consists of practical laboratory observation and experience with pre-school age children. Laboratory schedule to be arranged. Prerequisite: Home Economics 34 or 71.

HOME FURNISHING 36.

FS. 3 hours, A study of the decoration and furnishing of a home. Artistic appreciation and buying techniques for bousehold furnishings are emphasized. Three hours lecture.

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

For those students who are not Home Economic majors. Emphasis placed on the principles of food preparation.

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

For Home Economic majors. Principles and techniques of preparing all classes of foods. College chemistry is prerequisite to this course.

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

61. TAILORING

WS. 3 hours. Planning and construction of a tailored garment such as a suit or coat. Prerequisite: Home Economics 15, 16 or by consent of instructor.

64. BASIC DRESS DESIGN

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 Economics 10 and 15 or consent of instructor.

71. CHILD DEVELOPMENT

FWS. 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.

FS. 3 hours.

WS 2 hours.

S

3 hours.

F. or W. 3 hours.

F., W. or S.

Mathematics

1. BASIC MATHEMATICS

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

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 28. Recommended prior courses; one and one-balf years high school algebra and satisfactory Math entrance scores, or Math 1. Class meets daily.

15, COLLEGE ALGEBRA

A continuation of Math 10 for the liberal arts student. Prerequisite: Math 10 or equivalent. Class meets three periods per week.

17. DATA PROCESSING MATHEMATICS

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

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

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.

23. VECTORS

A brief introduction to vector algebra, primarily for mathematics and engineering students.

28. COLLEGE ALGEBRA AND TRIGONOMETRY F., W. or S. 5 hours. The standard course in freshman mathematics for the math or science student; integrates algebra and trigonometry. Intended for students majoring in disciplines requiring a rigorous program in mathematics. Prerequisites: three years of high school mathematics and good math entrance exam scores, or Math 10. Class meets daily.

29. COLLEGE ALGEBRA AND TRIGONOMETRY F., W. or S. 5 hours. A continuation of Math 28. Open to beginning freshmen qualifying for advanced placement by virtue of having four years of high school mathematics and high math scores on entrance exams. Prerequisite: Math 28 or equivalent, or advanced placement. Meets daily.

30. ANALYTIC GEOMETRY F., W. or S. 5 hours. A standard course in analytic geometry without calculus; includes some three dimensional work. Prerequisite: Math 29. Class meets daily.

W. 2 hours.

WS. 5 hours.

F., W. or S. 3 hours.

F., W. or S. 3 hours.

3 hours.

S. 1 hour.

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51, 52, 53. DIFFERENTIAL AND INTEGRAL CALCULUS FWS. 5 hrs. A rigorous study of the theory and application of differential calculus. The third quarter includes a study of linear differential equations. Prorequisite: Math 30. Class moets daily.

66. INTRODUCTION TO COMPUTING F. 3 hours. FORTRAN (formula translation)) Programming is studied to allow the application of mathematics and engineering problems to a high speed electronic computer. Students must have had or be concurrently taking a course in calculus.

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 daily.

Physical Science

11, 12, 13. SURVEY OF PHYSICAL SCIENCE FWS. 3 hours. A logically developed course in physical science rather than a "cutdown" version of the elementary courses in the various departments represented. Its aim is to give a definite conception of the physical world and some appreciation of the scientific method and its sociological significance. Sequence of topics will be as follows: Course 11 includes astronomy, meteorology, and geology; course 12 includes force and motion, heat, electricity, sound and light; and course 13 includes the chemistry of matter and nuclear energy. Not open to students who are taking or have taken other college courses in physical science.

Physics

10. INTRODUCTION TO PHYSICS

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

A course designed primarily for students taking pre-medicine or predeutistry. 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: Trigonemetry.

51, 52, 53. ENGINEERING PHYSICS

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, secund, light, and atomic physics. Both principles and applications are stressed. Four loctures and discussion periods and one three-hour laboratory period per week. Note: Calculus must be taken parallel with this course.

64. MODERN PHYSICS

This course is an extension of the Physics 51, 52, 53 sequence. It is devoted to the study of special relativity, quantum effects and theory, nuclear physics and the solid state. Four lecture-discussion periods, one three-hour laboratory period per week. Prerequisite: Physics 53,

FWS. 5 hours.

5 hours.

S.

FWS. 5 hours.

S. 5 hours.

Division of Social Science

Courses offered by the Division of Social Science are designed to accomplish the following:

- 1. To prepare the student for more advanced work in upper division courses to be taken at a four-year college or university.
- 2. To help prepare students for a more active, intelligent role as citizens in their respective communities.
- 3. To meet the needs of students interested in participating in one of the technical or vocational programs offered by the college.

Instructional staff: Mr. Jones, Choirman: Mr. Daily; Mrs. Fink; Mr. Harper; Mr. MacKendrick; Mr. Meeker; Mr. Morion; Mr. Nicholson; Mr. Perry; Mr. Roberts; Mr. Tiemann.

SOCIAL SCIENCE

Associate in Arts

FIRST YEAR

Fali Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Rours
English 11	3	English 12	3	English 13	
Pol. Sci. 11		Pol. Sci. 12	3	Pol. Sci. 13	
History J1 or 24		Histery 12 or 25		History J3 or 26	
Foreign Language or	•	Foreign Language o		Foreign Language o	
Electives	5-6	Electives		Electives	
Orientation		Physical Education	1	Physical Education .	1
Physical Education	1				
	_		-04		·
	15-16		16		36

SECOND YEAR

Fail Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Literature		Literature		Literature	
Science 11		Science 12	3	Science 13	3
Psychology or Biolog	gy 3	 Psychology or Biolo 		Psychology or Biolog	
Economies 51	3	Economies 52	3	Economics 53	
History 31		History 32		History 33	
Sociology 61		Sociology 62	3	Sociology 63	
	18		18		18

PRE-LAW*

Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	HOUTS
English 11 Pol. Sci. 12 History 11 Mathematics 19 or 28 Biology 11 Physical Education	3 3 3	English 12 Pol. Sci. 12 History 12 Mathematics 15 Biology 12 Physical Education	3 3 3 3	English 13 Pol. Sci. 13 History 15 Mathematics 20 Biology 13 Physical Education	3
			-		
	16		36		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physical Science Foreign Language Liferature Speech 11 Elective		Physical Science . Foreign Language Literature Speech 12 Elective	. 5 	Physical Science - Foreign Language - Literature Elective	
	17-19		17-19		15-16

*Recommended Electives: Accounting or Economics.

Social Science

ANTHROPOLOGY

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

A three-quarter introductory survey of the basic concepts of anthropology. Major areas studied are the biological nature of man, the evolution of man, race, and the development and history of culture.

ECONOMICS

51, 52, 53. PRINCIPLES OF ECONOMICS

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

HISTORY

11, 12, 13. WORLD CIVILIZATIONS

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.

FWS. 3 hours.

FWS.

3 hours.

F., W. or S. 3 hours.

20. HISTORY OF COLORADO

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

24. 25. 26. INSTORY OF LATIN AMERICA

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

81, 32, 33. UNITED STATES HISTORY

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

The purpose of this course is to acquaint the student with the problens 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.

VT 44. HISTORY OF THE WEST

For course description, see Trevel and Recreation Management program in Vocational-Technical section.

POLITICAL SCIENCE

11, 12, 13, AMERICAN GOVERNMENT

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

53. PHILOSOPHY OF AMERICAN DEMOCRACY S. 2 or 3 hours. A course which deals with significant political issues in the American culture presented in a philosophical context. Emphasis is placed on contemporary issues such as authoritarianism, extremism, bureaucracy, and constitutional questions. Reading, lecture, and discussion. Students in the day session receive three hours credit by meeting an extra hour and writing a brief paper.

SOCIOLOGY

61, 62. GENERAL SOCIOLOGY

A survey of concepts in the study of sociology, acquainting students with terminology, basic principles involved, and important theoretical concepts. Includes a study of basic group relationships, ranging from family to world, with approaches from the standpoint of race, nation-

THE 9 Louis

F. 3 hours.

FWS. 3 hours.

FW. 3 hours.

FWS. 3 hours.

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FWS. 3 hours.

ality, population factors, social mobility, ecology, and mass behavior patterns. The two quarters should be taken consecutively and 61 is prerequisite to 62.

63. SOCIAL PROBLEMS

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

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

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

12. ECONOMIC GEOGRAPHY

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

13. CULTURAL GEOGRAPHY

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

Education and Psycholoav

EDUCATION

51. INTRODUCTION TO EDUCATION

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

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

F. 3 hours.

S. 3 hours.

FWS. 3 hours.

FWS. 3 hours.

S. 3 hours.

FWS. 3 hours.

W. 3 hours.

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

33. HUMAN GROWTH AND DEVELOPMENT S. 3 hours.

This course is designed to assist the student in understanding the psychological and physiological development of the individual from conception through the period of old age. Prerequisite: Psychology 21 and 22.

74. EDUCATIONAL PSYCHOLOGY

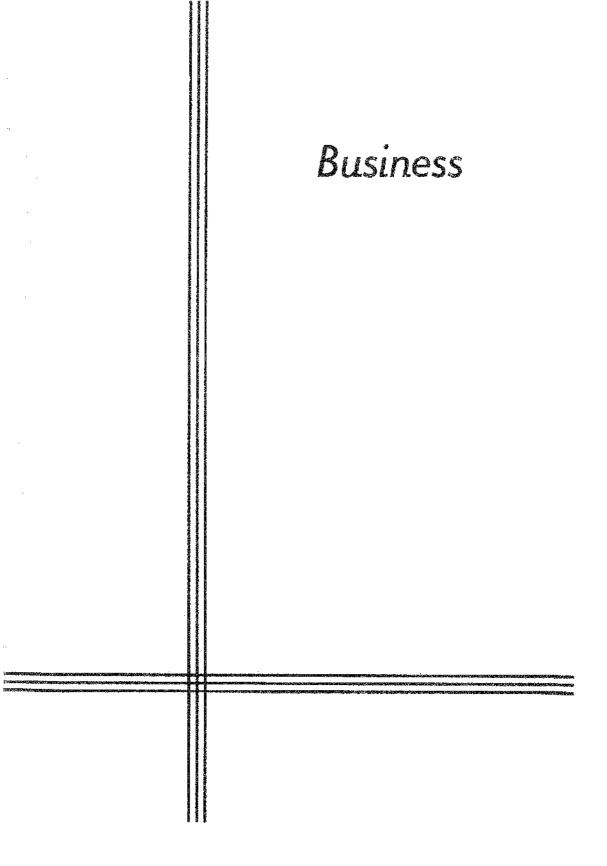
S. 5 hours.

W. 3 hours.

The psychological principles underlying the social emotional and intellectual development of the child as these relate to educational theory and practice. It is recommended that those sudents who are primarily interested in education take this course as a continuation of Psychology 21 and 22, which is prerequisite.

VT 41. PSYCHOLOGY OF LEARNING

See Audio-Visual Technician program in Vocational-Technical section for course description.



Division of Business

The basic purpose of the Mesa College Business Division is to provide young men and women with the necessary specialized training for a future of self-reliance and economic opportunity. Terminal programs in business education and skills are offered to those who desire to prepare for clerical positions with business concerns, educational institutions, and governmental agencies. They provide the necessary preparation for beginning bookkeepers, assistant accountants, stenographers, typists, filing clerks, business machine operators, and other types of business and office workers. A student is permitted to select, from a variety of courses, those which meet his own individual needs. Students may enroll for one or two years, depending on the amount of preparation needed or desired.

Issisuctional Staff: Mr. Goffredi, Chairman; Mr. Carstens; Miss Capps: Mr. Graves: Mrs. Hansen; Mrs. Harper; Mr. Mouroe; Mt. Squirred; Mr. Tipping; Mr. West; Mr. Youngquist.

PROGRAMS

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

The Division of Business enjoys a fine reputation among the colleges and universities of the area for its high level transfer programs in Business Administration, Accounting, and Sceretarial Science.

New programs in technical education are being added to the business curriculum to meet the need for better trained manpower. See page 96.

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 sceretarial field.

Each group must meet the general requirements for graduation as stated in page 31 and in addition complete the following special course requirements.

Social Science or Literature		 18	hours
Business Mathematics		 4	hours
*College Mathematics and/or Science		 9	hours
Introduction to Business		 - 3	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 42, 15, 31, 52, 53, and Ceneral Biology for terminal students.

PROFESSIONAL PROGRAMS

ACCOUNTING

Associate in Commerce

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Rours	Spring Quarter	Hours
Accounting 31 English 11 Business 41 Math or Setonce Elective	3 4 3-5	Business 32 Accounting 32 English 12 Math or Science Bus. 12 (Intro. to J	3 3 3-5	Sec. Science 14 Accounting 33 English 13 Math or Science Business 11	3 3 3~5
	15-17		1.5-17		14-16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Rours	Spring Quarter	Hours
Economics 51 Business 51 Literature ⁴ Psychology Acety, 62 Physicol Education	3 	Economics 52 Business 52 Literatures Psychology Acctg. 63 Physical Education		Economics 53 Speech 11 Literatures Psychology Acets, 64 Physical Education	
	—		_		• •
	16		16		16

SUGGESTED FJ.P.CTIVES: Insurance, Personal Finance and Money Management, General Sociology, Salesmanship, History, Business 53.

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

BUSINESS ADMINISTRATION

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Associate in Arts

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Rours
English 11 Mathematics 10 or 28 Chem. or Geol. Physical Education Bus, 12 (Intro. to Bus		English 12 Mathematics 15 Chem. or Geol. Elective Physical Education	3 5 4	English 13 Mathematics 20 or 1 Chem. or Geol Speech 11 Elective Physical Education	18 3 5 3 2
	_				
	15		16		17

SECOND YEAR

Fall Quarter	Hours	Wisser Quarter	Hours	Spring Quarter	Hours
Accounting 31 Psychology 21 Literature Reenomics 51 Business 11		Accounting 32 Psychology 22 Literature Economics 52 Flective	3 3 3	Accounting 33 Psychology 23 Literature Economics 53 Elective	
	—		1000		<u> </u>
	15		16		16

SECRETARIAL

Associate in Commerce

FIRST YEAR

Fall Quarter	Hours	Wiater Quarter	Hours	Spring Quarter	Hours
English 11 Sec. Science 21 Soc. Sci. or Lit. Business 41 Physical Education	. 4 . 3	English 12 Sec. Science 22 Soc. Sci. or Lit. Physical Education Elective Bos. 12 (Intro. to E	4 3 1 2	English 13 Sec. Sci. 14 Sec. Sci. 23 Suc. Sci. or Lit. Business 11	, 3 4 3
			_		• •
	15		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Science of Math Soc. Sci. or Lit Physical Education Business 51 Speech 11	3 1 3	Science or Math Soc. Sci. or Lit. Sec. Science 15 Sec. Science 31 Elective Physical Education	3 3 4 3	Science or Math Soc. Sci. or Lit. Sec. Science 33 Accounting 13 Elective	3
	*				
	15		16		16

SUGGESTED ELECTIVES: Accounting, Agriculture, Art, Mome Economics, Income Tax, Insurance, Language, Music, Personal Finance, Psychology, and Salesmarship.

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Accounting

13. SECRETARIAL ACCOUNTING

For those who plan to go into sceretarial 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

Intended for those students who plan to major in business administration or elect the two-year accounting option. The course includes the development of the fundamental principals of couble-entry bookkceping, the balance sheet, profit and loss statements, controlling accounts, partnership accounting, opening corporation books, bonds, bond singing funds, and managerial uses of financial statements. The final quarter is devoted largely to corporate accounting and the completion of a practice set. Class meets daily,

62, 63. INTERMEDIATE ACCOUNTING

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

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

10. WORD STUDY (Business)

A study of words: their spelling, meaning, derivation, and pronunciation with emphasis on spelling. Emphasis will be placed on business terms. Open to all students.

11. BUSINESS COMMUNICATION

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

12. INTRODUCTION TO BUSINESS

This is an orientation course designed to facilitate the adjustment of the student to college. This course surveys the American business system with emphasis on the market, structure and function of business operations, and the interrelations between the businessman and his environment. Required of freshinen.

F. 2 hours.

3 hours.

S. 3 hours.

S. 3 hours.

FWS. 3 hours.

FW. 3 hours.

FWS. 3 hours.

FWS.

FWS.

FW.

15. WORD STUDY (Business)

Continuation of Business 10 with emphasis on vocabulary building.

21, 22, 23. BUSINESS MACHINES

Fundamental skills are developed on the ten-key adding machine, rotary calculator, and printing calculator. A student earns two hours of credit for each quarter of machines, with a maximum of four hours, provided he does not repeat the machine taken in a prior quarter. This class meets daily. Business 21, 22, 23 indicates Fall, Winter, and Spring quarters rather than a sequence course.

26 SALESMANSHIP

Selling techniques developed. Psychological factors, initiative, and personality involved in influencing others in business transactions are studied.

27. ADVERTISING

A study involving the student in the dynamics of modern advertising, its practices, principles, media, and methods. It emphasizes the role and responsibilities of advertising in a changing business world.

32. INCOME TAX

The tax law applied to individuals and small businesses.

PERSONAL FINANCE AND MONEY MANAGEMENT S. 3 hours. 36.

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

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

RUSINESS MATHEMATICS 41.

Review of the fundamental skills of whole numbers, decimals, fractions, interest, and percentages as they apply to business and consumer problems. The student will use office machines as well as pencil and paper in solving the problems required in this course. This course is required of those majoring in business. Class meets daily.

42. FILING

Alphabetic, numeric, geographic, subject, and soundex systems of filing are studied. Practice is given in the finding of correspondence as well as in the filing of material.

51. BUSINESS LAW I

A study of: Contracts in general; Relation of Principle and Agent; Employer and Employce; Negotiable Instruments; Principal and Surety; Insuror and Insured; Bailor and Bailee.

S. 2 hours.

2 hours.

3 hours.

W. 3 hours.

WS. 3 hours.

3 hours.

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2 hours. F.

3 hours.

F,

52. BUSINESS LAW IF

Confracts continued: Carriers and Shippers; Vendor and Vendee; Landlord and Tenant; Partnerships; Corporations, Prerequisites: Business Law I. Required for A.C. degree, Accounting option.

53. BUSINESS LAW III

A continuation of Business 52: Torts; Business Crimes; Bankruptcy; Property; Deeds of Conveyance; Mortgages. Prerequisite; Business Law II.

VT 45. PERSONNEL DEVELOPMENT

For course description see Vocational-Technical section.

Secretarial Science

 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.

 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

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

15. ADVANCED TYPEWRITING

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

- STENDSCRIPT ABC SHORTHAND
 FW. 3 hours.
 A shorthand course with emphasis on use of letters of the alphabet.
 Designed for those needing to take notes in lectures or in the office.
 Extensive vocabulary drill. Dictation given at 80 words per minute in second balf of quarter. Class meets daily.
- 20. STENOSCRIPT ABC SHORTHAND DICTATION WS. 3 hours. Dictation at 80 to 110 words per minute. Prerequisite: SS 19.

21. SHORTHAND THEORY

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

 SHORTHAND THEORY W. 4 hours. Continuation of SS 21. No credit will be given if student has high school credit. Class meets daily. Prerequisite: SS 21.

3 hours.

WS. 3 hours.

I'W'.

F. 4 hours.

W. 3 hours.

S. 3 hours.

FW. 2 hours.

W. 3 hours.

23. BEGINNING DICTATION

FS. 4 hours.

Review of the principles of shorthand. Dictation is given at the rate of 80 to 100 words a minute. Machine transcription, with special attention to letter arrangement. Prerequisite: SS 22 or equivalent, SS 14 or enrollment in SS 14. Class meets daily.

31. INTERMEDIATE DICTATION AND TRANSCRIPTION W. 4 hours.

A dictation speed of 90 to 110 words a minute is attained with a mailable transcript. Prerequisite: SS 23. Class meets daily.

33. SECRETARIAL PRACTICE

S. 3 hours.

Skill is developed in the application of typing and shorthand to office situations and on transcribing machines. Business dress, business ethics, and personality development is discussed. Prerequisite: Credit or enrollment in SS 23 and SS 14.

TERMINAL PROGRAMS

Accounting and Secretarial

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

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

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

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

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

Job-Entry Occupations in Business

This vocational program is designed to help students acquire skills for . entry into a number of occupations in business. It also is intended to offer students with limited academic backgrounds an opportunity to gain additional skills before attempting a college-level program. For a description of the Job-Entry curriculum, see the Vocational-Technical section of this catalog.

ACCOUNTING [18 Months]

Associate in Commerce

FIRST YEAR

Fall Quarter	Rours	Winter Quarter	Boors	Spring Quarter	Hours
Accounting 31 English 11 Business 41 Math or Science Business 12	3 4 	Eusiness 32 Accounting 32 English 12 Business 22 Math or Science Elective	3	Sec. Science 14 Accounting 33 Eoglish 13 Business 23 Math or Science Business 31	
	16-13		17-19		17-19

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	llours	Spring Quarter	Hours
Economics 51 Business 51 Soc. Sci. or Lit.		Economics 52 Business 52 Soc. Sci. or Lit.		Economics 53 Speech 11 Soc. Sci. or Lit.	
Psychology Accig. 52 Physical Education	3	Psychology Arcig, 53 Physical Education	3	Fsychology Aertg, 64 Physical Education	
	16		 16		1.6

SUGGESTED ELECTIVES: Insurance, Personal Finance and Money Management, General Sociology, Salesmanship, History.

ACCOUNTING (9 Months)*

Fall Quarter	Hours	Winter Guarter	Baurs	Spring Quarter	Hours
Accounting 31 Business 12 English 11 Business 41 Business 10	3 3 4	Accounting 32 English 12 Rusiness 22 Elective		Accounting 33 English 13 Business 23 Sec Sci. 14 Business 11 Elective	2 3 2 2 3 3 3 3
	15		15		16

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

SECRETARIAL COURSE [18 Months]*

Associate In Commerce

FIRST YEAR

Fall Quarier	Buurs	Winter Quarter	Hours	spring Quarter	Hours
English 11 Sec. Science 21 Soc. Sci. or Lit Business 12 Rusiness 41	4 3 	English 12 Sec. Science 22 Soc. Science or Lit. Physical Education Speech 11 Elective		English 13 Sec. Science 14 Sec. Science 23 Son. Sci. or Lit. Physical Education Business 11	····· 3 ····· 1
					× -
	17		36		36

17

SECOND YEAR

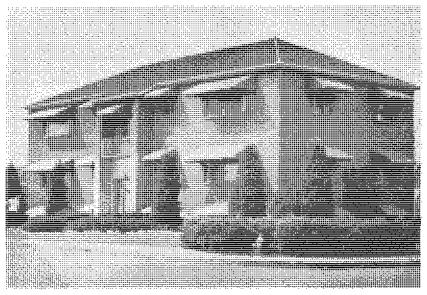
Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Science or Math Soc. Sci. or Lit. Physical Education Business 51 Business 21 Elective		Science or Math Soc. Sci. or Lit Soc. Science 15 Soc. Science 31 Elective		Science or Math Scc. Sci. or Lit. Sec. Science 33 Business 23 Accounting 13 Discrive	3
	16		3 .F		16

SUGGESTED ELECTIVES: Accounting, Agricultural, Art, Economics, Bome Economics, Income Tax, Insurance, Longuage, Music, Personal Finance, Psychology, and Salesmanship

STENOGRAPHIC-CLERICAL COURSE (9 Months)*

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Rus. 12 (Intro. to Bus English 11 Sec. Science 14 Sec. Science 23 Ensiness 10 Business 42	3 3 4 2	Speech 11 English 12 Business 22 Sec. Science 15 Sec. Science 31	3 2 3	Accounting 13 English 13 Business 23 Sec. Science 32 Business 11	3 2 4
	 17		15		13

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



Elm Avenue Hall

Technical, Vocational, and Continuing Education

TECHNICAL EDUCATION

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

Associate in Commerce Degree

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

ADVISORY COMMITTEE

Robert W. Coe, John Guthrie, Earl Jensen, Edwin S. Lamm, Mrs. Claude Smith

DATA PROCESSING CURRICULUM

FIRST YEAR

Fail Quarter English 11 Mathematics 10 Accounting 31 ADP 44 Business 12	3 3 3 5 8	Winter Quarter English 12 Mathematics 15 Accounting 32 ADP 45 Physical Fiducation		Spring Quarter English 13 Mathematics 13 Accounting 33 ADP 47 Physical Education	3 5 3
	17		17		17
		SECOND Y	EAR		
Fall Quarier	Hours	Winter Quarter	Hours	Spring Quarter	Mours
Science 11 Recommics 51 Psychology ADP 61 Accounting 64	3 	Science 12 Economics 52 Psychology AllP 62 Physical Education		Science 13 Economics 53 Psychology or History ADP 63 Acctg, 64	3 3 5

44, 45, 46. AUTOMATIC DATA PROCESSING	FWS. 5 hours.
A course designed to acquaint students with the o	peration and appli-
cation of automatic data processing equipment, T	he student will use
the latest IBM equipment in gaining an ability to s	olve business prob-
lems at electronic speeds. Systems and procedure	es involved in data -
processing will be stressed throughout. Prerequ	lisite: 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: ADF 44, 45, 46.

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

Job Entry Occupations In Business

A Vocational Program Designed to Help Students Acquire Skills for Job Competency

This program is designed for high school drop-outs, high school graduates, and adults who desire to gain skills of Typing, Shorthand, Bookkeeping, and related courses, for entry into occupations in business such as Bookkeeper, Receptionist, File Clerk, Typist, and Stenographer. For students who have a limited academic background, the program provides an opportunity to review and improve before attempting a college-level curticulum.

The program is designed for 11 months' training. No college credit and no grades are given. The student progresses at his own rate of speed. Upon leaving the program, he will be given a certificate stating his accomplishments. Classes meet six hours per day, five days per week.

JOB ENTRY CURRICULUM

		Course Total Class How		Course Total Class Hours
\mathbf{JE}	4	Basic Business English 220	0 JE 8	Speech 55
JT.	5	Typewriting	0 JE 9	Personai Development (A par-
JE	2	BookLeeping or		ticipation courseSport, Band,
\mathbf{JE}	1	Shortband	8	Choir, Debate, etc.)55
JF.	з	Business Math	0 JE 10	Office Machines 65
JE	Б	Word Study 100	0 JE 7	Laboratories

Finance and Accounting Technician

Associate in Applied Science Degree

This program has been developed in response to the rapidly growing needs of governmental units, including cities, towns, counties, school districts, and special assessment districts, for business managers who are trained in the fundamentals of General Business Administration and Governmental Accounting. Along with the trend in recent years for state and federal participation in the financing of local governmental and educational programs has come the need for numerous and extensive reports and accounting procedures requiring the services of specially trained individuals. The program has the endorsement of the Colorado Association of Certified Public Accountants. The student who successfully completes such a program can look forward to employment as a business manager for a small governmental agency or school district or perhaps assistant manager for a larger agency or district, or possibly serve a number of such districts, each on a part-time basis.

ADVISORY COMMITTEE

Frank Bailey, Paul Bethke, Charles L. Boxtrom, Earnie Breeden, Waily Clark, Marvin E. Gause, Lon Johansen, Jim Manuel, Waldo Olson, Jim Proctor, Mrs. Helen Tomlinson, Karl Williams, Juseph Woodley.

FINANCE AND ACCOUNTING TECHNICIAN CURRICULUM

FIRST YEAR

Fall Quarter Hour Business 12	Winter Quarter English 12 Accounting 32 Mathematics 15 Soc. Sci. or Literature Elective Physical Education	3 	Spring Quarter H. Bus. Communication 11 . Accounting 33 Multhernatics 13 Soc. Sci. or Liferature Physical Education	3 5 3
16		16		15

SECOND YEAR

Fall Quarter Voc-Tech 81	Rours	Winter Quarter Voc-Fech - 83	Rours 3	Spring Quarter Voc-Lech 84	Hours
Business 51	Э	Business 52	3	Vec-Tech 78 .	3
Accounting 62 Voc-Tech 71		Voc-Tech 77 Voc-Tech 72		Accounting 63	
Voc-'Tech 74		Voc Tech 75		Vac-Tech 69	3
			-		
	15		15		15

Suggested Electives: Typing; Business Machines; Business Math; Human Relations and Personal Management; Applied Psychology; Personal Hygiene

VT 69. PURCHASING

Acquisition and control of equipment and supplies, purchasing policies, selection, source, economics of the market.

SCHOOL AND MUNICIPAL LAW VT 71. F. 3 hours. Creation, appexation, dissolution, control of local governmental units; powers, duties, and liabilities of governmental units; legislation affecting the schools.

VT 72, STATE AND FEDERAL LAW

The courts, structure and jurisdiction, legislation and procedure, social legislation.

VT 74. BUDGETING I

Nature and objectives of budgeting, budgeting and management, budgeting procedures.

VT 75. BUDGETING H

Sales budget, production budget, operating expense budget, estimated income statement, capital expenditures budget.

VT 77. ACCOUNTING (AUTOMATED)

Introduction to automated equipment and its use as applied to payroll, banking, accounts receivable, accounts payable, and general ledger; operation of tab equipment related as input to computer.

VT 78. MUNICIPAL OR FUND ACCOUNTING

Accounting and financial records of national, state, and local governments, and institutions such as schools and hospitals.

VT 81. APPLIED ECONOMICS

This course explores the basic American economic system with an analysis of capitalism, governmental monetary policies and money, and banking as they affect local governmental units.

VT 83. GOVERNMENT PROBLEMS I

A course designed to study and explore problems as they relate to actual situations in governmental units such as counties, municipalities, and school districts.

VT 84. GOVERNMENT PROBLEMS II

A continuation of Government Problems I.

Travel And Recreation Management

Associate in Applied Science Degree

This curriculum has been developed in recognition of the importance of the rapidly growing tourist industry to Western Colorado and to the Rocky Mountain Region. It is designed to train students to serve touristrelated trades and industries in the region.

Employment possibilities for graduates of this program would range from receptionist and office work with limited supervisory responsibilities to positions entailing management responsibilities in a wide range of service agencies, such as transportation companies, travel agents and bureaus, air hostesses, office managers, assistant managers, assistant recreational directors, tour and resort guides, ticket agents, etc.

S. 3 hours.

S. 3 hours.

F. 3 hours.

W. 3 bours.

W. 3 hours.

3 hours.

F .

W. 3 hours.

W. 3 hours.

S. 3 hours.

ADVISORY COMMITTEE

Paul L. Benscoter, Roger W. Hall, Clarence Hockom, Dale Hollingsworth, Douglas Keister, H. C. Morthrop, John Waldeck, Clarence Werthen.

TRAVEL AND RECREATION MANAGEMENT CURRICULUM

FIRST YEAR

Fali Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Susiness 12 Englisb 11	. 3		3		3
Accounting 31 Business 36	3	Math or Science Voc-Tech 45		Voc-Tech 23 Voc-Tech 16	3
Voc-Tech 44 Physical Education		Business 27 Physical Education		Voc-Tech 42 Physical Education	
	10		<u>.</u>		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Voc-Tech \$1 Business 51 Voc-Tech 46 Speech 11 Elective	3 3	Voc-Tech 68 Voc Tech 87 Electives Voc-Tech 67	3 6	Voc-Tech 83 Work Experience*	15
	15		15		15

-Electives: Income Tax; Personal Finance; Geography; Languages Typing; Office Machines; Insurance,

**Work experience to be arranged during the intervening summer or at the end of the program on a full-time basis (300 hours), or on a part-time basic over a period of two or more quarters.

VT 16. SURVEY OF TOURISM

A course designed to acquaint students with opportunities in travel and recreation facilities. Representatives of tourist industries will address the students; the climate of what is coming; trends, etc.

VT 25. REGIONAL NATURAL SCIENCE

A course designed to acquaint students with places, names, scenic attractions, recreational facilities, etc., of the region.

VT 42. APPLIED PSYCHOLOGY

A study of some current psychological findings on perception, motivation, prejudice, and other related topics of importance in understanding and dealing with people in work and leisure-time activities. The class is primarily designed for those in the Associate of Applied Science programs.

VT 44. HISTORY OF THE WEST

A history of the Rocky Mountain region including the Great Plains and the Southwest. Included is a history of the Indian tribes in this location and the subsequent invasion by the trapper, the miner, the cattleman and the farmer. The unique cultural and political contributions of the West to the American way of life are the basic theme or objective of the course.

S. 3 hours.

S. 3 hours.

3 hours.

S.

F. 3 hours.

VT 45. PERSONAL DEVELOPMENT

Stresses the importance of the individual in business behavior with emphasis on developing a better understanding of self and others. The course examines proper appearance, courtesy, conduct, and buman relationships in business with the objective of providing a foundation for a working philosophy of life in keeping with Mesa College's goal for the development of the individual as well as particular skills. This course is sectioned with separate classes for men and women,

VF 67. SMALL BUSINESS MANAGEMENT

Designed for those students contemplating small business ownership or management. Topics include: Markets, inventory, ownership alternatives, long-range planning, travel and recreation industries.

VT 68. RETAILING-MARKETING

Basic principles of selling, retailing, merchandising, and advertising. Successful leadership in retail selling explored.

VT 86. TOURIST MANAGEMENT I

This course will explore problems with specific applications to the various phases of the travel and recreation industry.

VT 87. TOURIST MANAGEMENT H

A continuation of Tourist Management I.

VT 88. WORK EXPERIENCE

The student will be placed in travel and recreation industries such as the Forest Service, cooperating airlines, botels, motels, etc., on a cooperative experience basis.

Medical Office Assistant

Associate in Applied Science Degree

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

The Medical Office Assistant must be versatile, fitted by training and 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

ADVISORY COMMITTEE

Sister Mary Aloys, Clinton Biggs, Dr. A. L. Lindsay, Mrs. Mel Mocrow, Dr. Louise Porter, Dr. Richard P. Sanuders, Mrs. Jo Smith, Mrs. Helen Staggs, John Whalen.

See Division of Health Programs section for curriculum and course descriptions.

w % hours.

W 3 hours

F. 3 hours

W. 3 hours.

W. 2 hours.

S 15 hours

Child Care Center Director

Associate in Applied Science

A Children's Day-Care Center curriculum is offered to meet the needs of those presently employed in nursery schools or day-care centers and those contemplating working in the field.

Students majoring in this curriculum take courses designed to increase their understanding of the education and care of children. It is required that the student have laboratory experience in Mesa College's Child Development Center and other community child-care facilities.

Students successfully completing the course may find employment in private and cooperative day-care centers, nursery schools, children's homes, institutions for exceptional children, etc. Placement is dependent on individual maturity and professional growth.

ADVISORY COMMITTEE

John Patterson, Chairman: Bobert Corcoran, Mrs. Ray Dudley, Mrs. Matguerite Beard, Howard Tomlinson, Mrs. J. D. Abeft, Mrs. Louise Brewer, Mrs. Hazel Newton.

CHILD CARE CENTER CURRICULUM

FIRST YEAR

Fall Quarter English 11 Psychology 21 Home Economics 34 Phys. Ed. (First Al Home Economics 14 Physical Education	3 	Wister Quarter English 12 Prychology 22 Home Economics 71 Voc-Tech 47 Physical Education	3 	Spring Quarter English 13 Psychology 23 Vuc-Tech 18 Voc-Tech 49 Thysical Education Elective*	3 3 3 3 3 3
		SECOND YE	EAR		
Fall Quarter	Rours	Winter Quarter	Hours	Spring Quatter	Hours
Sociology 61 Net-Tech 66 Home Economics 41 Literature Elective		Sociology 44 Home Economics 42 Literature Wre-Tech 91 History of Soc. Sei Flectives	3 3 2 3	Home Economics 53 Voe-Tech 92 Speech 11 Literature or Elective	5 3

"Suggested Electives: Mental Hygiene; Human Relations: Applied Psychology; Business Mathe-matics and Business Machines; Typing.

VT 18. NURSERY SCHOOL EDUCATION

15

The nursery schoo las a laboratory for learning about children; its philosophy, goals, and operation. Students will spend one morning a week at assigned laboratory experience, and have a group meeting one day a week for discussion and evaluation.

17

VT 47. ELEMENTARY ART

Methods of teaching art at preschool levels are stressed. Students work in various media in execution of problems pertaining to art for this age child. Art experiences for children designed to inspire enjoyment and expression. Preschool and kindergarten guidance emphasized as the foundation for appreciation and love of art,

VI 48. CHILDREN'S LITERATURE

Literature forms and titles especially recommended, with emphasis on preschool years. Guidance in literature for reading aloud, including poetry; reading readiness materials; and first books. The home library.

W. 3 hours.

S. 3 hours.

15

VT 49. CREATIVE PLAY ACTIVITIES

Children's drama, including creative-expressive and spontaneous acting. Dancing and simple games. Musical activities for the childsongs, rhythm, and records. Some guidance in choosing play equipment to stimulate creativity.

BUSINESS MANAGEMENT PRACTICES VT 85.

Designed to help managers and directors of children's centers, or for assistants having responsibilities for office work. Record keeping, including the business and financial reports that are essential. Good personnel relations, and sound purchasing techniques.

VT 91. PRINCIPLES OF CHILD WELFARE

History and philosophy of child welfare movement. Study of laws affecting children at all governmental levels. Local, state and national agencies offering family and child welfare services. Licensing and health regulations for children's centers.

VT 92. INTERNSHIP IN LICENSED CENTER S. 6 hours.

Student spends minimum of three hours per day working in licensed center under qualified teacher. Supervised by college instructor with conference periods and evaluation of student's progress.

Audio-Visual Technician

Associate in Applied Science Degree

This curriculum is designed to train a person who will be qualified to help an instructor or supervisor find and create suitable instructional materials and effectively use the modern Audio-Visual equipment that is available. This person could expect to be employed in large school districts where he or she would work under the direct supervision of curriculum and instructional supervisors to provide them with the clerical, organizational, and mechanical assistance required to develop, maintain, and program these materials and equipment in such a way that classroom instructors would have the opportunity to see and learn of the advantages and effectiveness of such media and be encouraged to utilize them. Additional employment possibilities for the individual with this training would include those who manufacture, sell, and repair this equipment.

ADVISORY COMMITTEE

Dr. Harold Bowman, R. E. deKieffer, John Emerson, Lee Green, Charles Hendrickson, Harold G. Lord, John S. Martin, Margaret Müller.

AUDIO-VISUAL TECHNICIAN CURRICULUM

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Engligh 11	3	English 12		Speech 11	
Business 12	3	Voc-Tech 31	3	Voc-Pech 15	2
Education 51	3	Voc-Tech 41		Voc-Tech 43	
Voc Tech 21	3	Voc-Tech 24	3	Vac-Tech 26	3
Voe-Troh 11	3	Voc-Tech 12	3	Voe-Tech 13	
Physical Education	I	Physical Education .	1	Physical Education	I
-					~~~
	16		16		15

103

S. 3 hours.

F. 3 hours.

W. 2 hours.

F.

S.

3 hours.

3 hours.

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Soc. Sci. or Literatur		Sec. Sci. or Literature		Soc. Sci or iLteraturi	
Speech 23 Voc-Tech 25		Voc-Tech 61 Voc-Tech 63		Voc-Tech 62	
Voc-Tech 51 Voc-Tech 55	2	Voc-Tech 52		Voc-Tech 53	
Elective		Alective*		klective?	
	15		15		1.5

"Soggested Electives: Typing; Technical Report Writing; Applied Psychology; Mental Hygiene; Introduction to Data Processing; Accounting; Introduction to Library Services.

VT 11. PRODUCTION I—GRAPHIC MATERIALS AND EDUCATION

This course is designed to develop competencies in the preparation of graphic materials for teachers to be used in classroom situations.

VT 12. PRODUCTION II-REPRODUCTION MATERIALS W. 3 hours.

This course is designed to develop competencies in the preparation of transparencies and paper copy materials to be used in classroom situations.

VT 13. PRODUCTION III—SOUND APPLICATION

This course is designed to develop competencies in the recording of sound for use by teachers in classroom situations.

VT 15. INTRODUCTION TO EDUCATIONAL MEDIA S. 3 hours.

A first formal course in Educational Media designed to impart the philosophy, aims, and goals of the Educational Media field. Stress will be placed on understanding of the role of audio-visual aids in education. A project is required, and a lab of one hour per week.

VT 21. APPLIED MATHEMATICS

Basic algebra and trigonometry keyed to aid in problem solving as found in basic sound practices, and electrical or electronic applications.

VT 24. BASIC ELECTRICITY

This course is designed to teach the fundamental principles of electricity and to develop an understanding of electrical circuitry and its application.

VT 25. BASIC ELECTRONICS

This course is designed to give the students a basic background of electronics to understand the fundamental principles of electronics, and to help develop an understanding of electronic circuitry.

VT 26. BASIC ACCOUSTICS AND OPTICS

A beginning in the theory and operation of sound and accoustical principles, their behavior, function, and properties. Also covered will be the field of optics, principles, and theory of operation, as applied to both visual and mechanical means.

VT 31. THEORY OF COMMUNICATION

A survey course covering the nature and effects of the various communication media, including the newspaper, motion picture, radio, and television.

F. 3 hours.

W. 3 hours.

F. 3 hours.

S. 3 hours.

W. 2 hours.

. 3 nours.

VT 41. PSYCHOLOGY OF LEARNING

This course is designed to cover the basic principles of learning theory for the technician. Content will include multi-media approaches to education and principles of programed instruction.

VT 43. HUMAN RELATIONS

This class deals with supervision of non-professional personnel, personnel relationships, faculty relationships, salesmanship, and general working relationships with others and the problems inherent to individual and group relations.

VT 51. ADVANCED PRODUCTION I-STILL PHOTOGRAPHY

This course is designed to develop proficiencies in the production of still photographic materials which teachers can use in classroom situations.

VT 52. ADVANCED PRODUCTION U-MOTION PICTURE PHOTOGRAPHY

This course is resigned to develop proficiencies in the production of 8mm and 16mm motion picture materials which teachers can use for instructional purposes.

VT 53. ADVANCED PRODUCTION III

This course may go one of two ways—either as a production course for graphic and audio materials for use on television by teachers or as an applied internship production course with students actually becoming involved in the design and production of instructional materials for selected faculty personnel.

VT 55. ORGANIZATION OF INSTRUCTIONAL MATERIALS I

This class will serve as a basic course in the techniques of procedural operation of an instructional materials center, a study of the methods of keeping records and data procedures, and basic in-service training techniques.

VT 56. ORGANIZATION OF INSTRUCTIONAL MATERIALS 11

A study of library techniques and procedures, both book and film, physical arrangements and traffic patterns; sources of equipment and materials will be researched and studied.

VT 57. ORGANIZATION OF INSTRUCTIONAL MATERIALS III

na kalabah kana dari kerkala

A final look at the field, and a preview of things to come. Outside speakers will be utilized, and an independent study of the field will be undertaken. A year-end convention-demonstration may be held, with the graduating class managing the arrangements.

VT 61. PROJECTION EQUIPMENT MAINTENANCE W, 3 hours.

A first course in understanding the mechanical and electronic operation of projection equipment; minor repairs, trouble-source locating, and basic operational problems will be surveyed. Class will be composed largely of applied laboratory.

S. 2 hours.

W. 2 hours.

F. 2 hours.

W. 2 hours.

S. 2 hours.

S. 2 hours.

W. 3 hours.

F. 2 hours.

VT 62. ADVANCED PROJECTION EQUIPMENT MAINTENANCE

S. 3 hours.

A second step requiring the first projection equipment maintenance course; the student will learn the more complex and complicated repair and maintenance problems, including large-scale overhaul. Consisting largely of applied lab, the basic problems faced with television equipment will be covered as well.

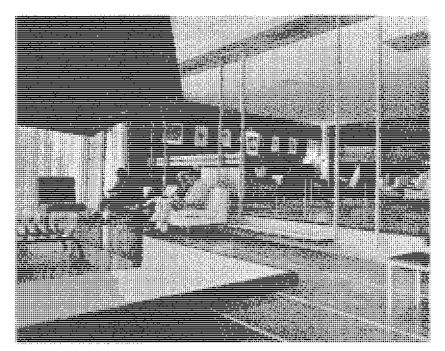
VT 63. TRANSMISSION EQUIPMENT MAINTENANCE W. 3 hours.

A first course in understanding the mechanical and electronic operation of transmission equipment, and covering minor repairs, problem locating, and minor trouble shooting. Basic operational problems will be surveyed. Class will consist largely of applied laboratory.

VT 64. ADVANCED TRANSMISSION EQUIPMENT MAINTENANCE

S. 3 hours.

A second step requiring basic transmission equipment maintenance for a first course, the student will engage in trouble shooting and locating of repair problems on a more advanced scale. Basic radio and television transmission equipment problems will also be covered,



College Center Social Lounge

PROPOSED PROGRAMS

The technical curricula that follow are being developed in cooperation with appropriate lay and professional committees and consultants, and also with the Colorado Commission on Higher Education, to fulfill additional educational needs of the many high school graduates who are not at this time interested in or inclined to pursue an academic program leading to the haccalaureate degree or professional competence. It is planned that the freshman or first-year level offerings in each of these curricula will be available at the beginning of Fall Quarter 1967. Students interested in additional information should contact the Director of Admissions at Mesa College for brochures which will be available in the spring and summer. Those wishing to make application for admission to any of these programs should make this desire known in writing on or along with the standard admission application form.

AUTOMOTIVE MECHANICS AND TECHNOLOGY

Associate in Applied Science

A recent vocational interest survey of high school juniors and schiors conducted cooperatively by the State Board for Vocational Education and the Gunnison Valley Board for Cooperative Services revealed an acute need for the availability of educational and training opportunities in Western Colorado for automotive mechanics and service technicians. This program is designed to provide this training and to qualify graduates for such positions as general mechanics, specialists of various types, shop foremen, service managers, service salesmen, instructors, factory service representatives and other jobs. The fundamental purpose of this program is to supply the knowledge, skill and technical background needed by anyone entering the field of automotive servicing or its related fields. There are many successful and rewarding careers in the automotive field for the man who knows, the man who can do things, the man who moves ahead through knowledge.

Summary of Proposed Course Work

Course Tille	Credit Rours	Course Title 4	Credit Nevrs
English	9	Aute Mechanics & Technology	68
Secial Science		Physical Education	3
Mathematics Physics Draftin	vg	Electives*	
			107

*Includes 12 credit hours during intervening summer term.

ENGINEERING TECHNICIAN

Associate in Applied Science

This proposed program is the first of several programs in Engineering Technology which are currently under study at Mesa College. The areas of specialization to be included in this proposal are limited to Engineering Drafting with Architectural and Civil options. It is the purpose of this program to prepare draftsmen for work with engineering and architectural firms, certain Federal and State government offices, and industries in which there is need for competent draftsmen.

Summary of Proposed Course Work

Course Tille	Credit Hours	Course Title	Credit Hours
Communication (English 1), Mathematics Drafting Engineering Problems Social Science and Literatu Sarveying		Advanced Drafting Structural Systems Specifications and Cos Engineering Seminar Physical Education	t Estimating 3 3

GEOLOGIC TECHNICIAN

Associate in Applied Science

This program is designed to train support personnel to work with professional geologists, engineers and researchers who work for oil companies, various agencies and burcaus of the federal government and certain areas of private industry. Individuals so trained would be able to work with technical competence in the operation of laboratory, research, and exploratory equipment, should be able to compile technical data from such equipment, identify and classify geologic specimens, perform limited drafting services, and be conversant with professionals in geology.

Summary of Proposed Course Work

Course Title	Credit Hours	Course Title	Credit Hours
Communication (English 1) Speech 11) Economics		Straligraphy Crystallography Mineralogy	3
Mathematics Geology Chemistry Paleontology		Biology (Botany, Zoology) . Physics Map Drafting Physical Education	
			103

LIBRARY TECHNICIAN

Associate in Applied Science

The demand for semi-professional library workers is growing rapidly. In line with its policy of establishing technical programs whenever the need is demonstrated, Mesa College is devising a two-year program for the training of Library Technicians leading to the Associate in Applied Science degree. Approximately one-third of the hours required for graduation will be devoted to library courses. The graduate will be qualified for

many types of work in school, public, industrial, academic, and governmental libraries. Some of the library courses have already begun at Mesa College in the Continuing Education Program, and if demand warrants it, they will be continued during the summer and next year in the evenings.

Course Title	Credit	Hours
Introduction to Libraries II		. 2
Cataloging 21		4ì
Book Selection & Ordering 22	- /	
Reference 31		3
Circutation of Library Materia	ls	3
Library Management 51		3
Contemporary Books & Publish.	մայց 61 ։	
Library Automation 62		
Library Practice Work 71 & 72		. 5
Library Problems 91		°
		•
		30

Course Titte	Credit	Πours
English Composition 11, 12 and	13	. 9
Typing 10 or 11, and 14, or profi-		
demonstrated by test		
Social Science		3
Physical Education		
Music or Art Appreciation		
American Government		
Secretarial Accounting 13		
Literature Elective (e.g., Childr		
Literature)		_ 3
History Elective		ั้ง
Biology or Physical Science		
General Psychology Business Communications II		
Speech Elective or Story Tellin		. 3
Electives		_ 11
		-63

SECRETARY:

MEDICAL, LEGAL, SCIENTIFIC

Associate in Applied Science

This program has been developed to meet the needs of students and employers of the region for skills and services in stenographic occupations. Nationally, it is estimated that the secretarial occupations will add two and one-half million jobs during the 1960's with the greatest expansion occur-ing in positions involving health fields and automation. Students will be trained with marketable skills to perform services in offices and to aid in laboratories, drafting rooms and even launching pads. The program will begin with a core curriculum for the first year and the choice of specialization in the sophomore year.

Summary of Proposed Course Work COMMON COURSES-FIRST YEAR

Course Titles	Credit Hours	Course Titles	Credit Hours
Eng. 11, 12, 13, Hus. 11 Typing Introduction to Business Dictation	б З	Business Mathematics Films and Secretarial Psychology	Practice 5

OPTIONS-SECOND YEAR

MEDICAL

Applied Sociology Biology (Anatomy,	3
Physiology, Micro.) Chemistry	9 3
Speech Medical Off. Asst. &	3
Lab. Technology Medical Term, and	9
Transcription Personal Devel	6 3
Accounting	3
Personal and Community Health	3
Physical Education	
	48

LEGAL

Business Law	9	Math. and Science
Applied Sociology	3	Engineering Drawin
Speech		Scientific Terminol
Applied Economics		and Transcription
Mathematics	9	Accounting
Accounting	3	Engineering Problem
Legal Terminology,		Technical Writing
Transcription pro-		Intro. to Data Pro
cedures	32	Personal Developme
Personal Development	3	Applied Economics
Physical Education	3	Physical Education
	45	

SCIENTIFIC

Math. and Science	15
Engineering Drawing	3
Scientific Terminology	
and Transcription	- 6
Accounting	3
Engineering Problems	1
Technical Writing	3
Intro. to Data Proc	- 3
Personal Development	3
Applied Economics	
Physical Education	3
	46

CONTINUING AND VOCATIONAL EDUCATION

Mr. Wheeler, Chairman

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

General Educational and Cultural Courses

Courses are being offered in Psychology, Sociology, Reading Improvement, Word Study, Geology, World Civilizations, Spanish, French, Rocketry, Driver Education, Basic Mathematics, Algebra, Investments, Woodwork, Lapidary and Silverwork, Ladics' 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, Drama 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 Continuing Education Office for a brochure and additional Information.

Vocational Courses

AGRICULTURAL EDUCATION

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

BUSINESS EDUCATION

The basic purposes of the Evening School of Business is to afford the people of the community an opportunity to receive training which will fit them for employment, and also to offer supplementary training in the fields in which individuals are now engaged for the purpose of advancement in these fields. Courses are offered regularly four evenings each week during fall, winter, and spring quarters, from 6:30 to 10:00 p.m. These courses may be taken for college credit or on a non-credit basis. The curriculum for the Evening School of Business is built around the following main courses. Bookkeeping and Accounting, Shorthand, Typewriting, and Office Machines.

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

DISTRIBUTIVE EDUCATION

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

HOMEMARING 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, Taiforing, Interior Decoration, Candy Making, Cake Decoration, Furniture Upholstery, Furniture Repair and Remodeling, Law for Laymen, Millinery, Stip 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 afternoous.

PRACTICAL NURSING

Refer to page 54 for curriculum and course description,

Trade and Industrial Education

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

J, **2**, **3**. AUTO MECRANICS

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 fifting, carburetor and adjustment, and repair of all related accessories. Offered in the evening only.

4. 5. 6. WELDING

FWS. 2 hours,*

This course is designed to prepare the student for certification tests on plate in the four positions. Are (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. Materials fee: \$20.

11, 12, 13. AUTO BODY AND FENDER REPAIR AND PAINTING. FW. 3 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,

21, 22, 23. MACHINE SHOP

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.

31, 32, 33. BASIC ELECTRICITY

A complete course for the fundamental understanding of electricity for use in electronics. Lectures and laboratory experiments designed to present the principles and laws of electricity, circuits e-c and a-c. testing and measurement techniques.

34, 35, 36. BASIC ELECTRONICS

FWS. 2 hours.*

FWS. 2 hours.*

This course is designed to offer the practical skills and electronics concepts which provide a firm basis for specialized training in any field of electronics. Lectures and laboratory experiments include vacuum tubes and transistors, power supplies, amplifier circuits, oscillators.

ADDITIONAL COURSES

Additional courses including Firemanship, Carpentry, Plumbing, Sheet Metal, Slide Rule, Electricity, Electronics, Drafting, Layout for Metalworkers, Building Code Interpretation, Blueprint Reading, Supervisory Training and Management Development have been and may be offered where there is sufficient need. These courses may be offered as pre-employment, trade-extension, or as related instruction to indentured apprentices.

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

Additional information and course descriptions can be obtained from the Division of Continuing Education.

»Credits earned in this course are not applicable to the Associate Degree program.

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FW, 3 hours."

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 Director of Admissions after May 1.

RANGELY COLLEGE

FOREWORD

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

LOCATION

Rangely College is located in Rangely, Rio Blanco County, on Highway 64 between Artesia and Meeker approximately 90 miles northwest of Grand Junction. The college grounds are located on a 190-acre tract of land overlooking and to the east of the Town of Rangely.

PROGRAM

Rangely College offers instruction in three types of two-year programs as follows: (1) arts and science (transfer) leading to the degree of Associate in Arts and Science for students who plan to continue their studics 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 (2½), Physics (1)

FOR FURTHER INFORMATION

Write to Director of Admissions Rangely College Rangely, Colorado

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