

MESA COLLEGE

... *Catalog*



1946 - 1947

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GRAND JUNCTION, COLORADO

foreword

MEMPHIS COLLEGE GOES FORWARD

Memphis College stands ready to serve the educational needs of youth in the time of peace just as it did in past in the wartime program.

The post-war world will demand more of youth in terms of education and training than the pre-war world did. Youth of today with its knowledge and years of physical and mental growth will work in commerce and business activities as executives, office clerks and in manufacturing concerns. It is prepared to give to 27 youth, high school graduates, veterans and new recruits, the kind of education they need for the development of physical, intellectual and emotional resources and to prepare them to pursue their particular interests in occupational or in vocational fields. Some courses were dropped during the war because there was little or no demand for them or because no facilities were available for particular subjects. These have already been restored and art and music courses will be resumed. More courses have been added and others will be added as the demand for them is made evident.

The end of the war found Memphis College in a critical position to resume its former extensive program of liberal arts, business, technical, commercial, literature and vocational education. As a result of the wartime experience, it realized that industry and education, commercial engineering and flight training, skill, cultural and trade and vocational training are among the subjects which already form a part of the post-war curriculum. What ever changes occur in the occupational structure, in the educational demands, or in local conditions, Memphis College will adapt its program to meet the challenge.

Architect's Drawing of Mesa College Dormitory for Women



Mesa College's proposed women's dormitory is to be built during the year. This unit, to house seventy women, will accommodate out-of-town women students. The dormitory will furnish a social center for women's activities, and will provide for wholesome group living.

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College Calendar . . .

SPRING QUARTER 1946.

March 18	Classes begin
May 30	Decoration Day holiday
May 31	Final examinations begin
June 7	Commencement

SUMMER QUARTER 1946.

June 17	Classes begin
July 4	Holiday
July 19	First term ends
July 22	Second term begins
August 23	Summer quarter ends

FALL QUARTER 1946.

September 2	Credentials due
September 11-13	Pre-registration
September 16	Registration begins
September 17-18	New student tests and counseling
September 19	Classes begin
September 23	Last day to change programs
October 24-25	O. E. A. meeting
November 23-27	Pre-registration for Winter Quarter
November 28-29	Thanksgiving vacation
December 2	Final examinations begin
December 6	Fall Quarter ends

WINTER QUARTER 1946-1947.

December 7	Tests for new students
December 9	Registration
December 10	Classes begin
Dec. 21-Jan. 4	Christmas vacation
January 6	Classes resume. Last day to change programs
March 3-7	Pre-registration for Spring Quarter
March 6	Final examinations begin
March 14	Winter Quarter ends

SPRING QUARTER 1947.

March 15	Tests for new students
March 17	Registration
March 18	Classes begin
March 31	Last day to change programs
April 4	Good Friday
May 28	Final examinations begin
May 30	Decoration Day holiday
June 6	Commencement

SUMMER QUARTER 1947.

June 16	Classes begin
July 4	Holiday
August 22	Summer Quarter ends

MESA COLLEGE

A COMMUNITY INSTITUTION

Mesa College is a democratic institution founded upon the principle that the community should provide education for all its members. 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.

PURPOSES

1. To provide a two-year course leading to entrance into the junior class for those who are to continue toward their specialization in a senior college or university; and in addition
2. To furnish those for whom the junior college will complete their formal education, a degree of personal, social, civic, and vocational competence that will enable them to enter effectively into adult living.
3. To stimulate and lead the intellectual and cultural life of the community; to furnish programs for information and entertainment; and to provide a center for participation in recreational activities.
4. To foster activities leading to civic, social, moral and educational improvement of the community.

CURRICULUM

The curriculum of Mesa College is based upon the needs of the students and of the area which it serves, as determined by frequent surveys. It is flexible and meets the needs of both university-preparatory and terminal-vocational students. It contains courses which are equivalent to those offered during the first two years at the senior colleges and universities of the state. It also provides certain types of specialized training for specific occupations. For all students, it provides courses of a general nature which lead to a broad, well-rounded education that fits them for better living by developing within them a sound emotional and social balance and personal resources for continued intellectual growth.

TO WHOM IS MESA COLLEGE OPEN?

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

PERSONNEL

MESA COLLEGE COMMITTEE.

R. H. Penberthy, President	Grand Junction
J. A. Edling, Secretary	Appleton
M. L. Dilly, Treasurer	Clifton
Mrs. Clyde Biggs	Grand Junction
Garold McNew	Collbran

FACULTY

Peter L. Carlston	Athletics, Physical Education
B. S., University of Utah.	
Graduate Study, University of Southern California.	
Victor F. Charles	Social Science
B. A., University of Iowa.	
M. A., Colorado State College of Education.	
Adv. Grad. Study, University of Colorado.	
Lillian Sabia	Librarian
Ph. B., University of Wisconsin.	
B. L. S., Pratt Institute Library School.	
Edward M. Day	Business
A. B., Colorado State College of Education.	
M. A., Colorado State College of Education.	
Mattie F. Dorsey	French, Mathematics
A. B., Florida State College for Women.	
M. A., University of Colorado.	
Ph. D., University of Colorado.	
Rupert M. Dorsey	Mathematics, Engineering, Drawing
B. S., Valparaiso University.	
M. A., University of Colorado.	
Adv. Grad. Study, University of Colorado.	
May Belle Gordon	Business
B. A., University of Colorado.	
B. E., University of Colorado.	
M. S., School of Commerce, University of Denver.	
Lowell Heiny	Chemistry, Physics
A. B., McPherson College.	
M. A., Colorado State College of Education.	
Esther Herr	English Language, Literature, Spanish
A. B., State University of Iowa.	
A. M., Columbia University.	
Charles A. Jones	Speech, Dramatics, English Language
B. A., Drake University.	
M. S., University of Iowa.	
Marie Killeffer	English Language, Literature
A. B., Cornell College, Iowa.	
M. A., University of Chicago.	
Adv. Grad. Study, University of Chicago.	
Margaret Lewis	Home Economics, Art
B. S., North Dakota State College.	
Graduate Study, University of Colorado.	

GRAND JUNCTION, COLORADO

Harlan R. Morfou	Business
B. Ed., Western Illinois State Teachers College. Graduate Study, University of Iowa; University of Colorado.	
Mary Rait	History
B. A., University of Colorado. M. A., University of Colorado. Adv. Grad. Study, University of Washington; Columbia University, University of Colorado.	
Dallas Sutton	Biological Sciences
A. B., University of Colorado. M. S., Northwestern University.	
Edith Townley	Physical Education
B. S., University of Colorado.	
Marie Trecco	Voice, Choir
Pupil of Luisa Novelli and R. M. Montague.	
Lester B. Whaffren	Agriculture
B. A., Brigham Young University. M. S., Brigham Young University. Adv. Grad. Study, University of Chicago; University of Colorado.	
Ward Woodbury	Music, Piano
A. E., Western State College of Colorado. M. A., Eastman School of Music, Univ. of Rochester.	
Horace J. Wubben	Psychology
B. A., Colorado College. M. A., University of Colorado. Adv. Grad. Study, University of California; University of Colorado.	

SPECIAL MUSIC INSTRUCTORS.

Anna Ross Cheney	Voice
Elizabeth Fugate	Piano
A. B., Colorado State College of Education.	
Marion L. Jacobs	Brass Instruments
M. A., Western State College of Colorado.	
Charles Myers	Piano
Charles J. Sleep	Woodwind Instruments
A. B., Utah State College. Graduate Study, Northwestern University.	
Patricia Stone	Violin
A. B., Vassar College. Graduate Study, University of Colorado.	
Marie Olcott	Piano
Chicago Music College; Kullak Conservatory, Berlin.	

ADMINISTRATIVE ASSISTANTS.

Teresa Click	Administrative Secretary
A. B., Teachers College, Columbia University.	
Theria Waldron	Assistant Secretary
Texas State College for Women.	
Elmer C. Houston	Maintenance Superintendent

ADVANTAGES OF A JUNIOR COLLEGE

1. LOW EXPENSE.

Probably the most outstanding advantage of the junior college is the decreased cost of education for students in the first two years of advanced training.

2. SCHOLASTIC SAFETY.

The hazards involved in the transition from high school to college are so great that scarcely half of the college entrants survive the first two years. The junior college has the opportunity of trying out candidates for college under conditions more conducive to success than would be the case in a large university.

3. HIGH QUALITY OF PREPARATORY TRAINING.

It has been found from many studies that transfer students from junior colleges are able to do better work in four-year schools than those who enter the four-year institutions as freshmen.

4. HOME ENVIRONMENT.

The junior college makes it possible for students to remain at or near home two years longer, an advantage that can hardly be over-estimated by students and their parents.

5. CLOSE PERSONAL RELATIONS.

The limited size of the junior college contributes to close personal relationship among faculty members and students, which may constitute a genuine advantage to the student.

6. CURRICULUM ADVANTAGES.

Besides offering courses which are equivalent to those given during the first two years of a senior college or university, the junior college also provides finishing curriculums for those who wish to complete a course in general education or in vocational training in two years. The degree granted upon graduation marks the completion of a definite two-year program.

7. OPPORTUNITIES TO MAKE UP DEFICIENCIES IN COLLEGE ENTRANCE REQUIREMENTS.

Students who are deficient in subjects prescribed for entrance to any college may readily make up such deficiency by taking the necessary subjects as a part of their regular program.

8. OPPORTUNITY TO DISCOVER INTERESTS.

Many students complete the twelfth year without any very definite ideas as to the college or vocation they wish to enter. The junior college extends the opportunity for self-discovery. It gives two additional years during which time students may familiarize themselves with college curriculums, schools, vocational information, and, in general, put themselves, at a relative small expense, into a better position to make intelligent choices.

9. BETTER GUIDANCE.

The junior college, articulating as it does with entrance either into a vocational or a more specialized advanced training, offers peculiar opportunities for educational and vocational guidance.

GENERAL INFORMATION

HISTORY.

Mesa College has been offering junior college work since 1925, until 1937 under the name of the Grand Junction Junior College. Since 1937, when the State Legislature made provision for public support, it has existed under the present name. It is fully accredited under the State Department of Public Instruction of Colorado, by the University of Colorado and all other institutions of higher learning in Colorado. Mesa College is a member of the American Association of Junior Colleges, an organization comprising some 400 junior colleges.

BUILDING AND EQUIPMENT.

The \$300,000 Mesa College building, completed in March 1940, covers nearly one-half a city block in area. The two-story structure has been acclaimed by building authorities as one of the most modern and practical college plants in the West. Constructed in modern design, the building includes the administrative offices, class rooms, lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructors' offices. First-floor halls are equipped with individual lockers for students' use.

Scientific lighting and ventilation are two features of the building. Glass brick is used throughout the building for light diffusion. Ornamental lighting fixtures afford ample direct, non-glare illumination.

The library, which now has more than 9,000 volumes and a wide selection of current magazines, is well lighted and air-conditioned.

The various laboratories--chemical, physical, biological, home economics, and business--are fitted with modern equipment, permitting a high quality of laboratory work to be done.

LOCATION.

Mesa College is ideally located at North Avenue and Twelfth Street about one and one-quarter miles north and east of the main business district of Grand Junction. The College grounds include twenty acres on one of the highest levels in the city, commanding an unobstructed view of the Bookcliffs to the north, Grand Mesa to the east, the Uncompagre range to the south, and the Colorado National Monument to the west.

The residential section in the vicinity of Mesa College is rapidly becoming one of the most beautiful and modern districts in the city. Most of the residential sections in close proximity to the College have stringent building restrictions.

LINCOLN PARK.

Directly to the south and east of Mesa College across North Avenue is the beautifully landscaped Lincoln Park, the recreation center of Grand Junction. The park includes a modern concrete stadium that will seat about 3,000 people, a green turfed football field, and a quarter-mile curbed cinder track. Other physical equipment includes a baseball diamond and stands, six concrete tennis courts, a nine-hole golf course with grass fairways and greens, and an outdoor swimming pool.

HOUSING.

Mesa College is building a women's dormitory to house out-of-town women students. The hall will accommodate about seventy. Small individual rooms, communicating with a group living room and bath make attractive units for four or five young women. This dormitory will be completed during the year.

A cafeteria and student union building is also to be constructed. This will serve students who live in the dormitory and others who wish to take part or all of their meals on the campus. Good food, at a reasonable price, will be available to students as soon as this building can be completed.

Until the completion of the dormitory, out-of-town women students will live in private homes. The college administration requires that students live in houses approved by the college. A list of these accommodations is available in the office of the Dean of Women. Out-of-town students who board and room in Grand Junction are expected to observe the college regulations concerning study, recreation, and entertaining.

A dormitory at the college farm with a capacity of forty-five men students is in use. The farm is a mile and a half from town and transportation as well as board and room is furnished the men living there. Men also live in private homes in Grand Junction.

STUDENT ACTIVITIES

STUDENT GOVERNMENT.

The associated students of Mesa College have charge of all student activities. Management of their affairs is vested in a council composed of student officers, class representatives, and faculty members. Part of the student activity fee, paid at registration, is administered by the council to further student projects.

Activities sponsored by the student association include Criterion, the college newspaper, social activities, and special interest clubs, such as the Dramatic Club, the Photography Club, and the Contact Troupe.

ASSOCIATED MEN STUDENTS.

The men help to foster close relations among all students and endeavor to help new students become acquainted. The true western spirit of Mesa College is in part due to the efforts of the Associated Men Students.

ASSOCIATED WOMEN STUDENTS.

The organization includes all women in the student body. One purpose of the group is to help new students become acquainted and feel at home in Mesa College. Teas, all-women parties, hikes, and athletic events are sponsored. During the winter quarter the women entertain the men at an informal dance.

ASSEMBLIES.

Programs for the assemblies are planned by a student and faculty committee. The programs are varied, utilizing student talent in dramatics, music, and other mediums of expression. Stimulating outside speakers appear on the programs, discussing timely, vocational, and cultural subjects.

CRITERION.

The official Mesa College newspaper is edited and managed by students. Staff members receive practical experience writing and editing news stories, interviewing campus visitors and assembly speakers, selling advertising and conducting the circulation. The Criterion attempts to present all the news of interest to the students.

FUTURE TEACHERS OF AMERICA.

The local chapter of F. T. A. was organized in the spring of 1941 and affiliated with the national organization in the fall of that year. Its members have junior standing in the National Education Association. The organization is of prime interest to those majoring in education and is open to all students interested in the teaching field. F. T. A. has several business and professional meetings during the year and plans for at least one social meeting each quarter.

PHI THETA KAPPA.

Phi Theta Kappa, national honorary junior college fraternity, is represented in Mesa College by Beta Phi chapter. Membership in the fraternity is open to students of good moral character, who carry fifteen hours of college work a quarter, and who stand in the upper ten per cent of their class with a scholastic average of "B" or better. The objectives of the organization are to sponsor worthy projects and to promote school spirit and interest as well as scholarship. Freshmen may be pledged to this active organization during the second quarter of the school year.

SOCIAL LIFE.

Mesa College has a full calendar of social activities during the year through which the social needs of every student are satisfied. These activities are under the direction of the Dean of Women who aids students and organizations in planning a wholesome program. The College administration believes that an important phase of its instruction is the social training which the student receives in connection with the activities of the institution.

Among the traditional social affairs that become an important part of the year's calendar are a faculty reception which is held at the beginning of the fall quarter; the Sophomore party for the Freshmen in the fall; the Freshman picnic for the entire student body in the spring; the Soiree, the main formal function of the college, held during the winter quarter, and the social events of commencement week.

All-college picnics, parties, dances, teas, and hikes as well as small group and organization functions furnish variety and opportunity for students to engage in social activities.

VARSITY ATHLETICS.

Mesa College is a member of the Intermountain Collegiate Athletic Conference. Varsity sports include football, basketball, baseball, track, tennis, boxing and wrestling. Basketball trips are arranged to include games in California and each year the football team plays one game in that state. In addition to participating in regularly scheduled conference and invitational track meets, Mesa College sends outstanding trackmen to the national Junior College meet.

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 recreation. The public is invited to attend many types of programs at the college—musical, dramatic, forensic, religious, and those devoted to public affairs and international relations—presented by faculty, students, community members, and out-of-town speakers.

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

Book reviews, play readings, lectures, conferences, demonstrations and musical programs are presented at the college from time to time by members of the community, for the students and the public.

The churches of Grand Junction all cooperate with the college in meeting the needs for religious education among the students. Opportunities include participation in student classes in Sunday schools, young people's organizations, and singing in choirs.

EXPENSES AT MESA COLLEGE

BOARD AND ROOM.

The cost of board and room is about forty dollars per month. Some students do light housekeeping and are able to reduce this cost, somewhat.

BOOKS AND SUPPLIES.

Text books, notebooks and school supplies are sold at cost at the College Bookstore. Cost for needed supplies will vary according to the courses taken by the student but ought not to exceed thirty dollars for the year and may be as low as fifteen, if used copies of text books are bought.

TUITION.

1. Because Mesa College is partially supported by taxes levied on Mesa County property, students whose parents are residents of Mesa County are not required to pay tuition.

2. Students who have reached their majority and who have been residents of Mesa County for six months next preceding the date of registration are not required to pay tuition.
3. A resident is one who can give evidence, beyond a reasonable doubt, that his permanent residence is in Mesa County. In determining residence, the place of voting, the previous home, the date of taking up present residence, age, vocation, citizenship and expectation of future residence will be taken into consideration.
4. Students who are residents of Colorado but who are not residents of Mesa County will be charged a tuition fee of \$25.00 per quarter, payable at the time of registration.
5. Out-of-state students will be charged a tuition fee of \$50.00 per quarter, payable at the time of registration.

GENERAL FEES.

Matriculation (paid once by each student)	\$ 5.00
Tuition (not charged Mesa County residents)	
Colorado students	25.00 per quarter
Out-of-state students	50.00 per quarter
All-College Fee	12.00 per quarter
The all-college fee includes library, student activity, towel, locker and publication fees.	

COMMERCE FEES.

Students in the School of Commerce pay the matriculation fee upon registering and a special fee for course work. This fee for students taking a full-time course in the Day School is:

Mesa County residents	\$30.00 per quarter
Other Colorado residents	55.00 per quarter
Out of State students	80.00 per quarter
The fee for Night School commerce courses is:	
For each class meeting one hour twice a week	10.00 per quarter

LABORATORY FEES.

Applied Music	\$15-\$20.00 per quarter
Laboratory Science	5.00 per quarter
Commerce (Charged Arts students for any one course)	5.00 per quarter
Education	1.00 per quarter
Home Economics (for each quarter hour taken)	1.00 per quarter
Art (for each quarter hour taken)	1.00 per quarter
Shop	3.50 per month
Ground School	25.00
Flight training	325.00

MISCELLANEOUS FEES.

Late registration	\$ 2.00
Change in schedule	25
Late or special examination (including G. E. D. tests) each	1.00
Graduation (cap, gown, diploma)	3.00
Este petition for graduation	1.00
Late credential fee	3.00

PART-TIME STUDENT FEES.

Students taking a part-time course are charged the matriculation fee, a class fee of two dollars per quarter for each credit hour for which they register, plus the regular laboratory fee for any laboratory course they may take. A part-time course consists of fewer than 10 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.

REFUND OF FEES.

No fees are returned after the first two weeks of the quarter except to students drafted for military service. Matriculation fees, late registration, late test, late credential fees are not refunded. During the first two weeks, if a student claims refund on withdrawing from college, two-thirds of tuition, all college, and laboratory fees may be refunded upon the recommendation of the Registrar. All of these fees will be returned to a student who has completed registration but is unable to attend classes.

SCHOLARSHIPS.

Mesa College accepts Joint Honor scholarships awarded to high school graduates. These are valued at \$25.00 per quarter for non-residents of Mesa County and cover fees for residents of the county.

The Lions Clubs of several communities in cooperation with the Grand Junction Lions Club offer scholarships which pay freshman tuition.

Mr. Walter Walker and The Daily Sentinel provide two scholarships to be awarded to two freshmen to be recommended by the college faculty, for use during their sophomore year at Mesa College.

Most of the major colleges and universities in the Rocky Mountain region and several outside this region, offer scholarships to Mesa graduates who have made high scholastic records while in college.

LOAN FUNDS.

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

EMPLOYMENT OPPORTUNITIES.

Students who find it necessary to earn part or all of their expenses while attending Mesa College will be assisted in securing employment by the college. Grand Junction business men and residents

are generous in offering employment to students and cooperate fully with the work-placement director of the college. It is important, however, that the student shall have enough money to enable him to stay in college for at least two months.

The college is interested in the placement of its graduates who desire to enter a permanent position and will assist them to obtain employment for which they are fitted.

ORGANIZATION FOR INSTRUCTION

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

SCHOOL OF ARTS AND SCIENCES.

The work of the School of Arts and Sciences is designed primarily for students who expect to transfer their junior college credits to a senior college or university where they will continue their formal education. The requirements for this school are those for the Associate in Arts and Associate in Science degrees, given on page 21. A secondary purpose of the School of Arts and Sciences is to provide for the completion of general education and to offer a well-rounded general cultural program for those who do not plan to continue for four years.

There are 51 hours required and 45 hours of electives which allow the student to follow his own interests, to prepare for entering education, home economics, business administration, or other senior college curriculums.

SCHOOL OF COMMERCE.

The basic purpose of the Mesa College School of Commerce is to provide young men and women with the necessary specialized training for a future of self-reliance and economic opportunity. Two-year terminal programs in business education and skills are offered to those who desire to prepare for clerical positions with business concerns, educational institutions, and governmental agencies. They provide the necessary preparation for beginning bookkeepers, assistant accountants, stenographers, typists, filing clerks, business machine operators, and other types of business and office workers. A student is permitted to select from a variety of courses, those which meet his own individual needs. Students may enroll for one or two years, depending on the amount of preparation needed or desired. Appropriate diplomas will be given those who complete the recommended curriculum and pass the proficiency examinations. The services of the placement bureau will also be at the disposal of students who complete the terminal courses.

ASSOCIATE IN COMMERCE.

The School of Commerce offers an excellent training for those terminal students who plan to enter a business career at the completion of their Junior College program. Students who meet the requirements of this two-year program will be granted the degree, Associate in Commerce, upon graduation.

PROGRAMS.

Two types of terminal programs are planned, one for the student who has not had previous training in commerce, and one for the student who has completed part of his business training in high school or elsewhere. Credit for typewriting 1, 2, 3, shorthand 1, 2, and accounting 1, 2, will not be allowed those who have had a full unit of these respective courses in high school. Practice will be provided on a non-credit basis, however, in order to enable the students to maintain these skills. Advanced courses in which these skills are used will be provided on a credit basis.

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

College preparatory students who plan to transfer to schools of business administration or work toward a degree or specialization in some branch of commerce are advised to register in the School of Arts and Sciences.

COURSES FOR ADULTS

The regular college classes are open to adults of the community who may register as full-or part-time students. In addition, evening classes are organized during the winter quarter in courses for which there is sufficient demand, in the school of Arts and Science. Some of these which have been popular are: literature, public speaking, school law, current affairs, psychology, and conversational Spanish. These courses are given on a non-credit basis. Courses are offered regularly in the Evening School of Commerce for two to four evenings each week during fall, winter and spring quarters. These courses may be taken on a credit or a non-credit basis.

The Mesa College farm is being used as a demonstration area where livestock and poultry are maintained for study and demonstration purposes. Individual farmers as well as groups who choose to study some phase of agriculture are able to draw freely on these resources.

Short information and refresher courses will be given on timely problems to groups who may desire them. These courses may be in the form of concentrated units meeting every day for a short period on such problems as feeding dairy cows, culling poultry or controlling disease of livestock, or more comprehensive courses such as Farm Machinery repair which might meet several nights per week and run for an indefinite period of time. Each program will vary with the interests and needs of the farmers or students who compose the classes.

ACADEMIC INFORMATION

ADMISSION TO MESA COLLEGE.

Admission to Mesa College may be had 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.

ADMISSION TO THE FRESHMAN CLASS.

High School graduates, or those who have completed satisfactorily fifteen acceptable units of high school work, are eligible for admission. The application for admission, which includes a transcript of the high school record properly filled out and signed by the high school principal, must be submitted before the time of registration and should be on file in the Registrar's office not later than the first of September. (Blanks may be secured from high schools, or from Mesa College).

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 freshman.

ADMISSION TO ADVANCED STANDING.

Honorably dismissed students from other colleges or institutions of similar rank may be admitted to advanced standing in Mesa College. Students applying for advanced standing will present to the Registrar's office a transcript of all college work sent from each institution attended.

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 education.

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.

All educational work done by the veteran while in active service will be evaluated and credit given when possible. Academic credit earned in a Navy or Army academic program or through correspondence courses taken from colleges and universities through the United States Armed Forces Institute, will be granted. Academic development through military experience or through non-academic courses will be measured by tests, and, if the veteran is found to have gained knowledge equivalent to a specified college course, credit will be granted.

A veteran may take regular courses leading to an associate degree granted by Mesa College and preparing 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.

ADMISSION OF SPECIAL STUDENTS

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

ENTRANCE TESTS

Entrance tests are given new students during the registration period so that students and counselors may use the results in making out programs of study. These tests are required of all students but not in the same certain records are necessary for entrance to college. Students do not "pass" or "fail" these tests. They are used to determine interests and abilities of new students in order to help them get the most out of college. The results are used for classification purposes and for planning a course of study to meet the particular needs of students. A fee of \$1.00 is charged for each late entrance test.

The tests include vocational interest, ability to do college work, English usage and reading tests, and a personality inventory. The results are available to the student and his adviser and form an excellent basis for counseling.

Those who make low scores in reading and English usage are given special help in overcoming their deficiencies. Two extra hours of classwork per week during the first quarter of Freshman English are provided for those whose reading test scores indicate weakness in this ability.

PROFICIENCY EXAMINATIONS

Proficiency examinations are used to determine whether credit may be allowed for courses taken in an unapproved institution, to determine amount of credit to be given for work done outside of class, and to provide a basis for exemptions from certain courses.

Students in Commerce who wish advanced standing take tests in typewriting, shorthand and bookkeeping to determine their fitness for doing advanced work. Those who perform satisfactorily in English grammar and arithmetic tests will be excused from taking these courses in the School of Commerce.

DEPARTMENTS OF INSTRUCTION

Mesa College offers courses in twelve different departments. These are Agriculture; Biological Science; Business; English Language; Literature and Speech; Foreign Language; Mathematics and Engineering; Music; Physical Science; Physical Education and Hygiene; Social Science; and Trades and Industry.

COURSES OF STUDY REQUIREMENTS

The course of study which an individual student pursues depends upon his present interests and his future plans. Freshman re-

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. Admission to class is solely by class card. Class cards are given to the student when he pays his fees at the end of registration. Credit will be given only for courses in which the student is registered.

It is advisable for new students to read the college catalog carefully and to make tentative plans concerning the course they wish to take before coming to complete their registration. Counselors at the college will assist prospective students in making these plans during the summer and during registration.

TIME OF REGISTRATION.

Fall Quarter registration will begin at 9:00 A. M., September 16, 1946. All new students are required to be present at that time.

STEPS IN REGISTRATION.

A new student should file a complete high school record with the Registrar prior to the time of registration in order to have his record evaluated and to receive permission to register. This record should be received by the first of September or sooner if possible. In the case of students registering with advanced standing, a transcript of all college work completed should also be filed. The order of registration is as follows:

1. Matriculate and pay a matriculation fee of five dollars. This fee is charged only once and is not refundable.
2. Present "Permit to Register" to counselor to whom the student has been assigned during matriculation, together with a tentative class schedule.
3. Get the approval of the counselor to register for the schedule tentatively planned. Copy the schedule in final form. Fill out class cards.
4. Have the schedule checked by the financial secretary who will make out a fee card. Take this fee card to the office and pay fees. Have class cards stamped "Fees Paid" and keep them to use for entrance to class.

REMOVAL OF HIGH SCHOOL DEFICIENCIES.

Applicants with high school deficiencies should make arrangements to remove them during their first year at Mesa College. These arrangements should be made before registration is completed.

Deficiencies may be removed (1) by passing appropriate examinations or (2) by completing in the junior college with a grade of "C" or better college courses in the group or groups of subjects in which the deficiencies lie. No college credit will be given for such courses when they are used to remove high school deficiencies. The rate of exchange is one high school unit for 7½ quarter hours of college credit.

GRADUATION.

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. Satisfy the general and specific requirements for the degree or diploma for which he is a candidate.
3. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be \$1.00.
4. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
5. Having 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.

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 special requirements of each. These include an elementary certificate in business, a ground-school certificate, a Mesa College diploma, and the degrees, Associate in Arts, Associate in Science and Associate in Commerce.

The Mesa College diploma is granted to those students who plan to complete their formal education at the end of two years, or who do not meet the requirements for admission to the upper division of a four-year institution. Those who matriculate as regular students, spend at least one year in residence, and complete 96 hours in college courses are entitled to the diploma.

The Associate in Arts degree is granted to students who meet the entrance requirements, matriculate as regular students, spend at least one year in residence and complete with an average of C.

or better, 96 hours including English composition, 9 hours; physical science, 9 hours; history or other social science, 9 hours; literature, 9 hours; biology or psychology, 9 hours; physical education, 6 hours; approved electives, 18 to 24 hours; free electives, 27 to 31 hours.

Freshmen should register for English composition, physical education and at least one other, preferably two, of the required courses. Approved electives include mathematics, foreign language, freshman literature, current history, public speaking, and social sciences. Free electives include any transfer courses offered by the college, such as education, home economics, etc.

The Associate in Science degree is granted to regular students who include the following courses in their program and who complete 96 hours with an average of C or better: Science and mathematics, 39 hours, of which at least 5 must be in mathematics, English composition, 9 hours; physical education, 6 hours; approved electives 18 to 24 hours; free electives, 24 to 18 hours.

The Associate in Commerce degree is granted to students who complete with an average of C or better, 96 hours including physical education, 6 hours; English composition, 9 hours; mathematics or science, 9 hours; social science, 18 hours, 3 of which must be in principles of economics; 42 to 43 hours, selected according to major field; electives 12 to 9 hours.

TEACHING PERMIT

Mesa College recognizes the need for teachers and encourages young people of ability to prepare for teaching, the most fundamental of the social services. Those students who complete satisfactorily two years in the School of Arts and Sciences and who include in the electives 9 hours of education, 6 hours of student teaching, 9 hours of psychology, and 6 hours of sociology or biology, are eligible to receive the pre-graduate permit, from the State Department of Public Instruction, to teach for one year.

TRANSFER OF CREDIT

Credits earned at Mesa College are transferable to other institutions providing they meet the requirements of a specific field selected by the transferring student.

A student in good standing is entitled to a transcript of his record at any time. Such transcripts are accepted by other junior colleges. 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 course 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 do not receive credit for the excess hours on transfer to a four-year state college in Colorado that requires only 90. Colorado A. & M. College will accept 105 junior college credits since that institution requires this number during the first two years.

A student expecting to transfer to a senior college is advised to examine carefully the current catalogue of the particular college he expects to enter and to follow as closely as possible its particular recommendations for programs of study.

PREPARATORY COURSES FOR FRESHMEN

All freshmen who register in the School of Arts and Science 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, NURSING, PHARMACY, or related fields, should register in courses leading to the Associate in Science degree, and take the particular courses required by these departments in universities and professional schools in the first two years.

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 third Monday in any quarter, for a full-time class schedule. A part-time program may be started at any time during the first six weeks of a quarter. The number of courses allowed will depend upon the time a student registers.

CHANGE OF PROGRAM

No student may transfer from one subject to another after the second week of the quarter. If a student desires to drop a course, he must make arrangements with the Registrar and his instructor. Failure to abide by this rule will result in the assignment of technical failure (TF) for the course or courses involved. Transfer from one curriculum to another should not be made by a student without his counselor's approval.

ATTENDANCE

A student at Mesa College is expected to attend all sessions of each class in which he is enrolled. Failure to do so may result in a lowered grade or exclusion from class. At any time during a quarter, a student who fails to attend regularly may be dropped from college rolls, at the discretion of the administration.

All instructors are required to make weekly reports of absence to the Registrar's office. In making these reports, whenever the instructor thinks that absences are seriously affecting a particular student's work, it shall be his duty to report this fact to the office of the Dean of Men or the Dean of Women.

Absences will be excused when incurred by reason of a student's participation in required field trips, intercollegiate games and other trips arranged by the college only if previously approved.

by the President. The coach or instructor or other official whose work requires absences from classes shall file in the President's office a list of the names of the students involved at least 24 hours before the activity.

Absences because of neglect, work, calls home, etc., are alike counted as unexcused absences, since every absence may entail a loss to the student. Non-attendance at any regularly required class, laboratory exercise, rehearsal or field trip constitutes an absence.

Absences due to serious illness or strictly unavoidable circumstances may be excused if the instructor in charge of the course is completely satisfied as to the cause. Being excused for an absence in no way relieves the student of the responsibility of completing all the work of the course to the satisfaction of the instructor in charge.

STUDENT LOAD AND LIMITATIONS.

The normal student load is sixteen quarter hours and the minimum load is ten hours, except for a few special and part-time students. Seventeen 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. The programs of students who are gainfully employed are adjusted according to the number of hours they work a day, with due consideration given to the ability of the students.

COURSE CONTINUATION.

Courses which continue for three quarters should be taken throughout the year by students planning to transfer credits to senior colleges or universities, and in the sequence indicated by the course numbers. Example: French; 1, 2, 3, FWS. To receive transfer credit for this course it is necessary to take all three quarters.

SCHOLARSHIP STANDARDS.

Standards of scholarship at Mesa College depend upon the objectives, nature and content of the courses. While individual progress is a basic consideration, and the development of each student in the light of his needs and aptitudes is the major concern of the college, it cannot be too strongly emphasized that if minimum standards are not maintained failure will result. In no case is credit given nor grades awarded merely on the basis of attendance.

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

A student's work is considered satisfactory when he maintains an average of "C" or higher. Any student whose record at the close of any quarter is unsatisfactory may be placed on probation, may be transferred to another curriculum, or may be dismissed from college.

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 one dollar is charged for a late or special examination.

COURSE REPORTS.

Individual reports are sent to parents, or students if they request them, at the end of each quarter. Special reports may be obtained upon application to the Registrar at any time. An official report is withheld, however, until all fees are paid.

SYSTEM OF GRADES.

Grades in Mesa College are indicated as follows: A, for superior work; B, good; C, fair; D, minimum passing; F, not passing; Con, condition; Inc, incomplete; IP, in progress; S, satisfactory (given in physical education courses, for example); W, withdrawn without discredit; TE, withdrawal not sanctioned by regulation; X, for credit established by passing a proficiency examination; and M, for military credit.

CONDITIONS AND INCOMPLETES.

A grade of "Condition" is given to a student who is below passing a course, but in the opinion of the instructor may be expected to pass a condition examination, which must be given before the end of the third week of the following quarter at the discretion and convenience of the instructor. A fee of one dollar is charged for the privilege of taking a condition examination. For passing a condition examination only a grade of C, D, or F may be reported.

A grade of "incomplete" may be reported only on account of illness at the time of a final examination, or when the student for reasons beyond his control has been unable to finish all the work of the course. This grade may be given only upon agreement between the instructor and the Registrar of the college. An "incomplete" must be removed during the next quarter the student is in attendance.

WITHDRAWALS.

A student leaving the college should notify his instructors and make formal application to the Registrar for permission to withdraw. If he withdraws during the first two weeks of a quarter a grade of W will be assigned in courses for which he is enrolled. If the withdrawal takes place after the second week, the courses in which the student is passing at the time of withdrawal will be dropped without discredit; a grade of F will be recorded for each course in which the student is not passing.

HONORABLE DISMISSAL.

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

COURSES OF INSTRUCTION

The courses offered at Mesa College are grouped in twelve departments or fields of study. The descriptions which follow indicate the content of the courses and list the prerequisites for those which are not beginning courses. Courses are numbered and given titles. For example, AGRICULTURE 13 is a course number and DAIRY FUNDAMENTALS is the corresponding course title.

In general, the courses numbered from 1 to 50 are designed for freshmen and those numbered above 50, for sophomores. Numbers end in 1, 2, 3, according to the quarter in which they are regularly offered. Many 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.

Mesa College reserves the right to withdraw from its offerings any course for which the enrollment does not justify giving it for any particular quarter. Additional courses will be added any quarter if the demand is sufficient.

AGRICULTURE

AGRICULTURE 1. ELEMENTARY LIVESTOCK PRODUCTION. F. 3 hours.

Selection and evaluation of beef cattle, dairy cattle, sheep, swine, and horses on a purebred and market basis. Emphasis is placed on types, markets, and market classification.

AGRICULTURE 2. LIVESTOCK FUNDAMENTALS. W. 3 hours.

Relation of livestock to agriculture and human needs. Judging, breeding and management of livestock will be considered.

AGRICULTURE 3. FITTING AND SHOWING LIVESTOCK. S. 3 hours.

Fitting, handling, and showing of beef cattle, dairy cattle, sheep, swine, and horses for show and sale.

AGRICULTURE 11. CROP PRODUCTION. F. 3 hours.

A study of the principles of field crop production with special emphasis on cultural practices for crops grown in the state of Colorado.

AGRICULTURE 12. FORAGE CROPS. W. 3 hours.

A study of the production and preservation as hay or silage of the principle forage crops and cultivated grasses. Special attention is given to the production and maintenance of farm pastures.

AGRICULTURE 13. GENERAL HORTICULTURE. S. 3 hours.

A general course covering the principles underlying the propagation, culture, improvement, and marketing of horticultural crops.

AGRICULTURE 51. GENERAL POULTRY HUSBANDRY. F. 3 hours.

A general course dealing with the fundamentals, elementary principles of feeding, breeding, incubation, rearing, housing, and management of chickens and turkeys, and of the marketing of farm poultry flocks.

AGRICULTURE 52. DAIRY FUNDAMENTALS. W. 3 hours.

An introductory course in dairying. Judging, culling, breeding and management of dairy cattle. The composition and quality of milk and milk products are also considered.

AGRICULTURE 53. FARM MANAGEMENT. S. 3 hours.

Principles of economics as related to the practical operation of a farm or ranch, including types of farming, size of business, combination of enterprises, rates of production, labor and equipment efficiency.

BIOLOGICAL SCIENCE

BIOLOGY, 1, 2, 3. GENERAL BIOLOGY. FWS. 4 hours.

In the Fall Quarter the fundamental biological principles are presented, beginning with the simple cell and progressing to all phyla of invertebrates. The Winter Quarter work is a continuation of Biology 1, studying the biological principles found in the vertebrates with emphasis on man and comparing man with the other vertebrates studied. The principles of heredity are also included. "The Spring Quarter," plant life and its relation to man and other animals are presented with the fundamental principles of biology as a basis.

BIOLOGY 11, 12, 13. BIOLOGICAL SCIENCE SURVEY. FWS. 3 hours.

The survey course in biological science aims (1) to give an integrated understanding of the living world; (2) to give an appreciation of scientific principles as they are evidenced in life; (3) to provide a background which will be at once the foundation for those who wish to pursue the subject further, and which will permit a fuller life for those who will take additional work in the field.

A study of how living organisms function. The subject matter includes: how they secure and prepare food, utilize food and eliminate waste, transport materials within their bodies, inherit from their ancestors, and perpetuate themselves; how their activities are coordinated and controlled; how the world of living organisms came to be as they are; what ecological relationships govern them; and what biological principles enable the individual and the community to live most healthfully.

BIOLOGY 51. HUMAN ANATOMY AND PHYSIOLOGY. F. 5 hours.

An introduction to the principles of human anatomy and physiology. Lectures and demonstrations. Prerequisite: Biology 1, 2, 3, or permission of instructor.

BIOLOGY 52. GENERAL BACTERIOLOGY. W. 5 hours.

Lectures and laboratory work on bacteria, yeasts, molds, isolation, identification and cultivation. Preservation of foods, fermentation, food-borne diseases.

BIOLOGY 61. LOCAL FLORA. F or S. 3 hours.

A survey of native and cultivated plants, with special reference to plant families of Colorado. Prerequisite: Biology 3.

BIOLOGY 62. PRINCIPLES OF HEREDITY. W. 3 hours.

Facts and principles of heredity as developed from the study of plants and animals. Human inheritance; genius, mental defects, individual differences. Open to all Sophomores.

BUSINESS

BUSINESS 1, 2, 3. BEGINNING TYPING. FWS. 2 hours.

The aim of this course is to take care of those students who have had little or no previous instruction in typing. The class continues throughout the year and students completing the subject are ready for Typing 51.

BUSINESS 51. INTERMEDIATE TYPING. F. 2 hours.

Review of letter styles, forms of punctuation, and other fundamentals. Intensive drill on letter placement. Development of a speed required in the average office.

BUSINESS 52. ADVANCED TYPING. W. 2 hours.

Study of tabulations, telegrams, legal forms, and mimeograph work. Development of speed on varied material, rather than straight-copy work.

BUSINESS 53. OFFICE PRACTICE. S. 3 hours.

An extensive study of general office procedures. This course is particularly adapted to one-year students. Credit will not be allowed in both Business 53 and 81. Prerequisite: Business 51.

BUSINESS 11. SHORTHAND THEORY. F, W or S. 4 hours.

The study of the principles of shorthand through reading materials including these principles. Fluent reading is emphasized.

BUSINESS 12. SHORTHAND THEORY. W or S. 4 hours.

A continuation of the principles of shorthand through both reading and writing. Some practice dictation is given.

BUSINESS 13. BEGINNING DICTATION. F or S. 4 hours.

Completion of the principles of shorthand. Dictation is given at the rate of 80 words. Some machine transcription.

BUSINESS 61. DICTATION AND TRANSCRIPTION. F or W. 4 hours.

A review of shorthand principles. Rebuilding of dictation speed. Intensive study in the arrangement of transcribed letters on the page. Dictation at the rate of 90 words. Prerequisite: Business 13.

BUSINESS 62. ADVANCED DICTATION AND TRANSCRIPTION. W. 4 hours.

The study of shorthand is applied to the terminology of various vocations. Dictation at the rate of 110-120 words. Prerequisite: Business 61.

BUSINESS 63. SHORTHAND SPEED BUILDING. S. 4 hours.

A course designed for students who have had no shorthand the previous two quarters. Others will not be admitted. Speed dictation will be emphasized and practical experience given. Prerequisites: Business 62.

BUSINESS 21, 22. INTRODUCTORY ACCOUNTING. F,W. 4 hours.

An introduction to the fundamentals of accounting. The complete bookkeeping cycle is studied. Students are taught to open and keep records on a double-entry basis for a sole proprietorship; to make entries for notes, drafts, interest, and discounted notes; to make adjusting and closing entries; to prepare statements. An introduction to records for a partnership and a corporation is given. One practice set, a single proprietorship grocery business, taking approximately ten days, is completed.

BUSINESS 23. APPLIED ACCOUNTING. F or S. 4 hours.

For those who plan to go into secretarial office work and may be required to keep the accounts of a dentist, lawyer, or other professional individual, or for those who will need to keep financial records for themselves or others. It is a terminal course and is not required for those who plan to take Principles of Accounting. Prerequisites: Business 22 or one year of high school bookkeeping.

BUSINESS 71, 72, 73. PRINCIPLES OF ACCOUNTING. FWS. 3 hours.

Intended for those students who plan to major in business administration. Besides introduction to the fundamental principles of double-entry bookkeeping, the accounting principles are developed through the balance sheet, profit and loss statement, controlling accounts, partnership accounting, opening corporation books, surplus, bonds, and bond sinking funds, consignment and installment sales, interlocking ledgers, and managerial uses of financial statements.

BUSINESS 31. GRAMMAR AND PUNCTUATION. F or W. 3 hours.

This course, which is phrased entirely in business vocabulary, is a thorough review of grammatical principles as used in business correspondence. Emphasis is placed on such principles as agreement of the subject and predicate, correct verb forms, and unity, coherence, and emphasis in the sentence.

BUSINESS 32. SPELLING AND WORD STUDY. F or S. 3 hours.

This course is based primarily upon the practical, every day words such as are found in the Horn and Thorndike lists. The work is correlated so that spelling, usage, pronunciation, and syllabication give a more complete mastery of words.

BUSINESS 33. BUSINESS CORRESPONDENCE. W or S. 3 hours.

The purpose of this course is to compose (and prepare in type-written form) mailable letters. The parts of the business letter are studied in detail. Supplementary reading, discussion, and the actual writing of letters dealing with Buying and Shipping; Inquiries, Claims, and Adjustments; Credit and Collection; Sales; and Applications.

BUSINESS 41. BUSINESS ARITHMETIC. F, W, or S. 3 hours.

This course provides a review of the fundamentals in the various types of mathematical problems occurring in present day business. The course is required of those majoring in business.

BUSINESS 42. INTRODUCTION TO BUSINESS ORGANIZATION. F or W. 3 hours.

This course is a study of good business practices and methods involved in the organization and operation of a small business. Consideration is given to licenses, permits, bookkeeping and record keeping for small businesses, income tax, withholding tax, social security, etc. It is especially designed for those who will go into business alone or on a partnership basis.

BUSINESS 43. INTRODUCTION TO BUSINESS LAW. S. 3 hours.

A study of the usual contractual relationship in the business world. Numerous cases are employed to illustrate the rights and obligations of anyone in the pursuit of ordinary business transactions. This course should help the student to know when he needs the services of an attorney, and to discuss intelligently his legal problems with persons qualified to know what his rights are.

BUSINESS 51. FILING. W or S. 3 hours.

Alphabetic, numeric, geographic, subject, and soundex systems of filing are studied. Actual office problems involving the use of typing will be done. Prerequisite: Business 51.

BUSINESS 52. SECRETARIAL PRACTICE. W. 3 hours.

Particular emphasis is given to such topics as general office knowledge, business ethics and dress, and the application of typing and shorthand to office problems. Prerequisites: Business 62 or enrollment in Business 62.

BUSINESS 53. DICTAPHONE. F, W, or S. 2 hours.

Instruction on the complete Dictaphone unit, the transcriber, the shaver, and the dictation machine, is given. Office proficiency on the transcriber is developed.

BUSINESS 94, 92, 93. BUSINESS MACHINES. FWS. 1 to 2 hours.

Fundamental skills are developed in such machines as the Sunstrand and Dalton Adding Listing Machines; the Monroe, Burroughs, Marchant Calculating machines; Burroughs Band and Commercial Posting Machines; and Underwood-Elliott-Fisher Accounting and Writing Machine. A student earns one hour credit for each machine completed. Approximately 60 practice hours are required. Prerequisite: Permission of the instructor.

ENGLISH LANGUAGE, LITERATURE AND SPEECH

ENGLISH 8L. REVIEW ENGLISH. F, W, or S. 5 hours terminal credit.

A course designed for those students who need a review in the fundamentals of English before beginning college work in this

field. It includes a review of high school grammar and punctuation, vocabulary building, composition, spelling, and reading. No transfer credit is allowed for this course.

ENGLISH 01. REMEDIAL ENGLISH. F or W. No credit.

A course required of freshmen who are deficient in reading and the fundamentals of English as evidenced by low scores on the entrance test. This course carries no credit but is taken along with English 1 so that together they carry three hours credit. English 01 meets twice a week for a quarter.

ENGLISH 1, 2, 3. FRESHMAN ENGLISH. FWS 3 hours.

The ability to speak and write correctly and effectively is the result sought through this course. Instruction is given in the fundamentals of grammar, in the organization of themes, and in the use of the library. Attention is given to the development of vocabulary and to increasing speed and accuracy of comprehension through the study of essays on subjects of current interest. Required of all Freshman.

ENGLISH 51, 52, 53. ADVANCED COMPOSITION. FWS. 2 hours.

The student is directed in practice designed to develop correctness and ease in written expression. Expository writing in the Fall Quarter, with emphasis on the form and content of critical themes and research papers, is followed by practice in descriptive writing and the personal essay in the Winter Quarter and by a study of the technique of the short story and narrative composition in the Spring Quarter. Students are advised to plan for at least two of the three quarters, one of which should be the Fall Quarter. Prerequisite: English 1, 2, 3.

LITERATURE 41, 42, 43. FRESHMAN LITERATURE. FWS. 2 hours.

The study of short stories and novels by American, English and European authors of the nineteenth and twentieth centuries aims to broaden the student's knowledge of the world's best fiction and to give him standards by which he can judge the values of a story. The course is planned to develop the student's understanding and appreciation of English and American poetry and drama during the winter and spring quarters, respectively.

LITERATURE 51, 52, 53. SURVEY OF ENGLISH LITERATURE. FWS. 3 hours.

An appreciation course in the development of English poetry and prose from Beowulf to the present. The literature is presented against its political and social backgrounds. This course is designed to meet the requirements of those planning to major in English literature. Prerequisite: English 1, 2, 3.

LITERATURE 61, 62, 63. SURVEY OF AMERICAN LITERATURE. FWS. 3 hours.

This course consisting of three quarters presents the development of American prose and poetry from the seventeenth century to the present. It aims to develop appreciation of literature and to increase the student's understanding of America as it is today through knowledge of the thought and culture of the past. Credit will be given for any single quarter. Prerequisite: English 1, 2, 3.

SPEECH I. PUBLIC SPEAKING. F, W, or S. 3 hours.

This is a one-quarter course in the fundamentals of public speaking designed for students who are taking a general course or those taking pre-professional courses—agriculture, home economics, education, law, etc. It is designed to improve the student's conversational and platform speech in general. Emphasis is placed on the use of the speaking voice, diction, platform behavior, speech organization and delivery. Students are given numerous opportunities to speak and are led to develop standards of criticism.

SPEECH 11. VOICE IN SPEECH. F. 2 hours.

This is the first part of a three-quarter course designed for students who plan to major in speech and others who desire to obtain a thorough grounding in good speech. It is devoted primarily to the improvement of the speaking voice with individual attention to the elimination of faulty habits of speech. Phonetics and the physical aspects of speech are emphasized.

SPEECH 12. SPEECHMAKING. W. 2 hours.

This quarter is devoted to the development of the principles of effective speaking; practice in the preparation and delivery of short speeches; and work in analysis and sources. Prerequisite: Speech 11.

SPEECH 13. ORAL INTERPRETATION. S. 2 hours.

This quarter is devoted to a study of the principles of expressive reading of prose and poetry with practice in class and platform reading, and in radio speech. Prerequisites: Speech 11, 12.

SPEECH 21, 22, 23. PLAY PRODUCTION. FWS. 2 hours.

The main purpose of this course is to acquaint the student with the problems in the many phases of play production, and to provide opportunity to study the various means of solving them. The first quarter will be devoted entirely to stage craft and stage lighting. Students will be given practical laboratory experience in designing scenery and lighting for one-act plays. The second quarter will be devoted to costume designing and make-up, with practical laboratory experience; History of the Theatre; and theory of directing. The third quarter will be de-

voted to technique of acting, rehearsal technique and the culmination of the previous two quarters work—the presentation of a series of one-act plays.

The course may be taken for two or three quarters credit, but no student may enroll for the third quarter without credit in the first two.

FOREIGN LANGUAGE

FRENCH 1, 2, 3. BEGINNING FRENCH. FWS. 5 hours.

An introduction to French containing grammar, pronunciation, oral and aural drill, reading, as well as cultural and informational material about French history, literature, geography, and civilization.

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

A course to build up proficiency in reading French and by a study of some of the masterpieces of French literature to acquire knowledge and appreciation of such works and their place in the great literary movements. Prerequisite: two years high school French or one year college French.

SPANISH 1, 2, 3. BEGINNING SPANISH. FWS. 5 hours.

An introduction to Spanish containing grammar, pronunciation, oral and aural drill, reading, as well as cultural and informational material about the literature, history, geography, and civilizations of Spanish-speaking nations—particularly those in Spanish-America.

SPANISH 51, 52, 53. SPANISH READING. FWS. 3 hours.

Open to students who have had one year of college Spanish or two years of high school Spanish. Grammar review and advanced grammar are stressed along with the reading course. The reading includes *Jese* by Valdes, *Suano de Una Noche de de Agosto* by Sierra, *El Sombrero de Tres Picos* by Alarcón and excerpts from the works of Julio Camba, Luis Taboada, and of other well-known writers as time permits. Stress is placed on Spoken Spanish and records are used.

SPANISH 61, 62, 63. CONVERSATIONAL SPANISH. FWS. 2 hours.

Supplements Spanish 51, 52, 53, giving special emphasis to the oral use of idiomatic Spanish of everyday life. Prerequisite: Spanish 1, 2, 3, or permission of instructor.

HOME ECONOMICS AND ART

HOME ECONOMICS 41. CLOTHING FOR COLLEGE WOMEN. F. 3 hours.

Selection, care, and construction of clothing to meet the needs of college women.

HOME ECONOMICS 42. LIVING IN THE HOME. W. 3 hours.

Study of family living problems including home decoration, first aid and home nursing, child care, and personal and family relationships.

HOME ECONOMICS 43. FEEDING THE FAMILY. S. 3 hours.

Principles and practice of selection and preparation of foods with emphasis on nutrition and the planning and serving of family meals.

CLOTHING 1. COLOR AND DESIGN. F. 3 hours.

Study of principles of color and design and their applications to personal and home living. Technique used in designing and making hand crafts.

CLOTHING 2. TEXTILES. W. 3 hours.

Study of textile fabrics and fibers with emphasis on selection, care and wearing qualities of clothing. Tests for identification of textiles. Techniques in home dyeing and weaving.

CLOTHING 3. SELECTION AND CONSTRUCTION. S. 3 hours.

Fundamental experiences in selecting and purchasing materials and constructing clothing to meet individual needs. Remodeling and construction of children's clothes.

FOODS 1. CONSERVATION AND PRESERVATION. F. 3 hours.

Actual preserving of foods by canning, drying, freezing, and home storage. Nutritive value of foods for feeding the family. Prerequisite: Chemistry 1, 2, 3.

FOODS 2. SELECTION AND PREPARATION. W. 3 hours.

A study of food values and food costs. Principles and technique of preparing all types of foods with introduction to meal planning and serving.

FOODS 3. PREPARATION AND SERVING OF MEALS. S. 3 hours.

Planning, preparing and serving family meals and special occasions meals.

ART 1, 2, 3. FREEHAND DRAWING. FWS. 2 hours.

A basic course in drawing that should be taken by all art students, especially those who plan to do any advanced work in creative art. Emphasis is laid on drawing from objects to develop the power of accurate observation. The compositional aspect of drawing is taught simultaneously as the student learns the uses of line and tone in achieving rhythmic structure.

ART 11, 12, 13. COLOR AND DESIGN. FWS. 3 hours.

Color and design is a survey course in the field of two-dimensional and color composition, with abundant reference to the historical background of decorative arts. With freehand drawing, it is a basic course for art students and prospective teachers. Projects will consist mainly of individual work in creative design, some of which will be carried out in crafts of the student's choice.

ART 83. INDIVIDUAL PROJECTS. S. 3 hours.

This is a completion quarter in individual project work for students who have completed three quarters of design. Techniques of various crafts and fine arts will be taught, depending on the needs and interests of students enrolled. Special attention will be given to the problems of prospective teachers.

MATHEMATICS AND ENGINEERING

General Mathematics

These courses are planned to meet the needs of three groups: (1) those students who are deficient in university entrance requirements in mathematics; (2) those who have had high school mathematics but wish to review before beginning college mathematics; (3) students desiring to take one year or less of college mathematics to meet degree or curriculum requirements.

MATH 01. ELEMENTARY ALGEBRA. F.

For students who do not have credit for one year of high school algebra. This course carries no transfer credit but meets college entrance requirements. It is a basic elementary course which will give the student a mastery of the elementary principles of algebra, and prepare him to continue with Math 1.

MATH 02. PLANE GEOMETRY. W.

For students who do not have credit for one year of high school geometry. This course carries no transfer credit but meets college entrance requirements. It includes plane geometry and the application of the geometric type of reasoning to problems of everyday life. Prerequisite: Elementary algebra.

MATH R1. ESSENTIALS OF MATHEMATICS. F, W, or S. 5 hours terminal credit.

A review course in arithmetic; algebraic and geometric principles and processes; logarithms; introduction to trigonometry; tabular, graphical, and analytical representation of functions. This course does not carry transfer credit.

MATH 1. INTRODUCTION TO COLLEGE ALGEBRA. F. 2 hours.

This is the standard college course in intermediate algebra and prepares the student to enter engineering mathematics or to continue general first year college mathematics. Prerequisite: one year high school algebra, or Math 01, and one year of plane geometry, or Math 02.

MATH 2. PLANE TRIGONOMETRY. W. 2 hours.

This course emphasizes the solution of right and oblique triangles and meets the requirements of liberal arts majors or others who need only one year of college mathematics. Prerequisite: Math 1.

MATH 3. PLANE ANALYTIC GEOMETRY. S. 3 hours.

This course deals with the geometry of the straight line, circle, ellipse, parabola, hyperbola, and some of the higher plane curves. Prerequisites: Math 1 and 2.

MATH 31. BASIC MATHEMATICS. F or W. 5 hours.

A review of arithmetic followed by elementary algebra through quadratics, with an introduction to elementary statistics. This course is designed to meet the requirements of majors in agriculture, forestry, home economics, and technology. Prerequisites: one year of high school algebra, or Math 01.

Engineering Mathematics

These courses meet the requirements of students who wish to major in engineering or science, and those who plan to become teachers of mathematics.

MATH 02. SOLID GEOMETRY. F. 2 hours.

This course is offered so that students may make up deficiencies in prerequisites for engineering. It includes the topics usually covered in a high school course in solid geometry.

MATH 11. COLLEGE ALGEBRA. F, W, or S. 5 hours.

Fundamental concepts, laws, operations; review of factoring, fractions, linear equations, the graph, quadratic equations and simultaneous quadratic equations; binomial theorem; variation, progressions, determinants and systems of linear equations; exponents, radicals, logarithms. Prerequisite: two and one-half units, or more, of high school mathematics, including one and one-half units of algebra.

MATH 12. PLANE AND SPHERICAL TRIGONOMETRY.
E, W, or S. 5 hours.

Angles and their measures; the trigonometric functions; significant figures and approximate computation; linear interpolations and use of tables; right triangles; identities; functions of multiple angles and addition formulas; inverse functions; trigonometric equations; oblique triangles; right and oblique triangles in spherical trigonometry. Prerequisite: Math 11.

MATH 13. PLANE AND SOLID ANALYTIC GEOMETRY.
E, W, or S. 5 hours.

Points in rectangular and polar coordinate systems; distance, slope, angle between lines; loci; straight line; circle, conic sections; polar and parametric equations; tangents and normals; curve tracing in various systems; translation and rotation; empirical determinations (curve fitting); direction cosines and numbers; the plane and line; quadric surfaces and sections; cylindrical and spherical coordinates. Prerequisites: Math 11, 12.

MATH 51, 52, 53. DIFFERENTIAL AND INTEGRAL CALCULUS. FWS. 4 hours.

Functions; limits and limit theorems (without proof) the derivative and its interpretations; derivatives of algebraic functions; maxima and minima; rates; derivatives of transcendental functions; applications, including Newton's methods of approximation and tangents and normals; derivatives of higher order; the differential with applications; definite integral with applications such as length, area, surfaces, and volume; moments; centroids; moments of inertia; improper integrals; applications of the definite integral such as work and attraction, curvature, curve tracing; indeterminate forms; series of constant terms; power series with Taylor's and Maclaurin's theorems with remainder term and applications in integration; partial differentiation with applications; multiple integrals with applications. Prerequisites: Math 11, 12, 13 or consent of the instructor.

MATH 63. DIFFERENTIAL EQUATIONS. S. 3 hours.

Ordinary and partial differential equations with emphasis on engineering and physical applications. Prerequisite: Math 52.

MECHANICAL DRAWING 1, 3. ENGINEERING DRAWING. FS. 3 hours.

Use of drawing instruments, lettering, principles of orthographic projections, dimensions, reading drawings, auxiliary and sectional views are stressed. Course 1 includes six hours of drafting, with quiz sections. Isometric, dimetric, oblique, cabinet drawing, linear perspective; working drawings, development of surfaces, tracing and blue printing are considered. This course includes six hours of drafting. Prerequisites for course 3: Engineering Drawing 1 and 2.

MECHANICAL DRAWING 2. DESCRIPTIVE GEOMETRY. W. 3 hours.

Orthographic projection of points, lines, planes, and curved surfaces mostly in the third quadrant of projection are studied. The change of position method is applied to a series of practice problems and practical problems. Practical problems are presented as they would be encountered in engineering practice. The course includes six hours of drafting, with quiz sections. Prerequisite: Engineering Drawing 1.

AERONAUTICS 1. PRIMARY GROUND SCHOOL. F, W, or S. 3 hours.

Elementary knowledge of navigation, meteorology, and civil air regulations, considered necessary in the training of students desiring to become pilots for private flying. Fee: \$25.00.

AERONAUTICS 11, 12. PRIMARY FLIGHT TRAINING. F, W, or S. 2 hours.

Flight instruction necessary for the C. A. A. flight test for private pilot's license. Each student makes his own arrangement for flying time with approved flight operators. Special fee: \$140.00 for Aeronautics 11 or \$325.00 for both quarters.

MUSIC

THEORY AND HISTORY

MUSIC 1, 2, 3. ELEMENTARY THEORY. FWS. 5 hours.

This course is designed to give a thorough ground work in the melodic, harmonic and rhythmic elements of music. Major, minor, diminished and augmented triads, keys and scales, intervals, and cadences are studied in singing, writing, playing and dictation. Rhythmic training includes the study of time durations, notation, time signatures, rhythmic reading and dictation. The fundamentals of the acoustics of music are also studied.

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

A study of harmonic resources, from primary seventh chords through enharmonic modulation and higher discords. Four-part harmony from melody and figured bass, and original composition in the simple forms are studied. Melodic, harmonic, and rhythmic dictation are continued. Prerequisite: Music 3.

MUSIC 61, 62, 63. HISTORY OF MUSIC. FWS. 3 hours.

A survey of the history of musical development from the ancient Greeks through contemporary composers. Musical events are studied in their relation to world history. Lectures and readings are illustrated with recordings and motion picture films. Open to all students.

ENSEMBLE MUSIC

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

MUSIC 21, 22, 23. COLLEGE CHOIR. FWS. 1 hour per year.

A course for the purpose of study and presentation of standard choral compositions. The choir participates in college vesper services and radio broadcasts. Membership is open to all students. Students who have satisfactorily completed two quarters without credit enroll for credit in the third quarter.

MUSIC 31, 32, 33. SYMPHONY ORCHESTRA. FWS. 1 hour per year.

The Mesa College Symphony Orchestra is made up of students, faculty, and professional musicians of Grand Junction. At least two concerts of symphonic works are presented during the school year. Open to all qualified college students. Students who have satisfactorily completed two quarters without credit enroll for credit in the third quarter.

MUSIC 41, 42, 43. COLLEGE BAND. FWS. 1 hour per year.

Membership in the college band is open to all college students with previous band experience. (Credit will be given in College Band provided instrumentation is sufficient to warrant regular rehearsals.)

MUSIC 71, 72, 73. INSTRUMENTAL ENSEMBLE. FWS. 1 hour.

This course is open to advanced instrumental students, and gives opportunity for studying and playing standard works for small instrumental combinations. The course may be repeated for credit.

MUSIC 81, 82, 83. VOCAL ENSEMBLE. FWS. 1 hour.

This course is open to advanced vocal students. Opportunities are given for singing in trios, quartets, etc. The course may be repeated for credit.

APPLIED MUSIC

Individual music lessons are given in piano, voice, and the instruments of the band and orchestra. Two hours credit per quarter are given in the student's major instrument if he is a music major. One hour credit is given in the student's minor instrument or if private lessons are chosen as an elective. Music majors are required to study piano unless they can show ability to play second grade music.

Instruction by competent teachers is offered to beginners and advanced students. Materials are chosen according to the student's needs and level of attainment.

To receive credit students must enroll for private instruction through the college with instructors approved by the college.

MUSIC 4, 5, 6; 54, 55, 56. VOICE. FWS. 1 or 2 hours.

MUSIC 14, 15, 16; 64, 65, 66. PIANO. FWS. 1 or 2 hours.

MUSIC 24, 25, 26; 74, 75, 76. VIOLIN. FWS. 1 or 2 hours.

MUSIC 34, 35, 36; 84, 85, 86. BRASS INSTRUMENTS. FWS. 1 or 2 hours.

MUSIC 44, 45, 46; 94, 95, 96. WOODWIND INSTRUMENTS. FWS. 1 or 2 hours.

PHYSICAL EDUCATION AND HYGIENE

The Department of Physical Education aims to provide an instructional program in physical education activities and personal hygiene. It is designed to secure optimum health and physical fitness, based upon the needs and interests of the students. All students are required to take physical education each quarter they are registered in the college unless physically unable, as evidenced by a doctor's certificate, to participate in physical activities. All entering students are given a comprehensive health examination by a staff of qualified physicians and dentists to determine their health status and to apply follow-up procedures.

Students who wish to major in physical education should take hygiene, biology, chemistry, public speaking, and psychology.

PEM 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR MEN. FWS. 1 hour.

Courses offered for beginners and advanced students in tennis, basketball, touch-football, tumbling, gymnastics, archery, swimming, football and varsity sports. Participating students provide their own personal equipment.

PEW 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR WOMEN. FWS. 1 hour.

Women students are required to take one team sport, one individual sport and one rhythmic course during the two years at Mesa. Courses offered in tennis, archery, speedball, volleyball, basketball, badminton, square dancing, tap dancing, swimming, gymnastics and psprual work according to the preference of a particular group. Participating students provide their own personal equipment.

HYGIENE 1. PERSONAL HYGIENE. F, W, or S. 2 hours.

Emphasis is placed upon the functional rather than the anatomic phases of personal hygiene. The course is planned to give the student a general understanding of the body and to aid him in the fine art of living. The course is based upon the following units of work: personal hygiene; mental hygiene; and environmental hygiene. The study consists of lectures, collateral reading, and term themes.

PHYSICAL SCIENCE**SCIENCE 1, 2, 3. SURVEY OF PHYSICAL SCIENCE. FWS. 3 hours.**

A course designed to orient freshman in the fields of astronomy, chemistry, geology and physics. A logically developed course in physical science rather than a "cut-down" version of the elementary courses in the various departments represented. Its aim is to give a definite conception of the physical world, some appreciation of the scientific method and the part it has had in the intellectual life of the race, as well as the contributions of the physical sciences to the solution of some contemporary problems.

CHEMISTRY 1, 2, 3. GENERAL INORGANIC CHEMISTRY. FWS. 4 or 5 hours.

Lectures and laboratory. Fundamental principles of general inorganic chemistry, and applications in science and society; atomic structure; periodic table; gas laws; non-metallic elements and their principal compounds. Designed for students who are planning to take a major in chemistry, medicine, engineering, or other scientific work where an adequate foundation in chemistry is required.

CHEMISTRY 11, 12, 13. SURVEY COURSE IN GENERAL CHEMISTRY. FWS. 3 hours.

Lectures and demonstrations, and recitations with the facts and philosophy of Chemistry in a broad way. Applications to the home, industry, and agriculture will be presented. Not accepted for the chemistry major or as a part of pre-medical or of engineering requirements.

CHEMISTRY 51, 52, 53. ORGANIC CHEMISTRY. FWS. 5 hours.

Lectures, discussion, and laboratory exercises in the preparation and reactions of aliphatic and aromatic compounds of carbon. Syntheses of simple drugs and dyes are carried out in the laboratory and a discussion of foods and vitamins is included. Prerequisite: Chemistry 1, 2, 3.

CHEMISTRY 61. QUALITATIVE ANALYSIS. F or S. 5 hours.

The separation and identification of the more common bases and acids. Prerequisite: Chemistry 2.

CHEMISTRY 62. QUANTITATIVE ANALYSIS. W. 5 hours.

Elementary gravimetric and volumetric analysis. Prerequisite: Chemistry 61.

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

A course in physics consisting of lectures, demonstrations, discussions, and laboratory work 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. The human body and its physical environment constitute the central theme.

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

Two of the six topics of a general physics course are considered each quarter. During the Fall Quarter mechanics and heat are studied. The fundamental facts and principles of these subjects are presented with practical applications. During the Winter Quarter the topics sound and light are presented. The Spring Quarter is used for the two remaining topics, electricity and magnetism. Many experiments are performed and several field trips are taken to make the student aware of practical applications. One three hour laboratory period per week is required of each student for each quarter.

SOCIAL SCIENCE

ANTHROPOLOGY 1. INTRODUCTION TO ANTHROPOLOGY. F. 3 hours.

This course is designed to provide the groundwork in the essentials of anthropology. It treats of the origin and antiquity of man; the development of racial types and their present distribution; the beginnings and characteristics of stone age and metal cultures as represented by the cultures whose remains are found in south-western Colorado.

ECONOMICS 51, 52, 53. PRINCIPLES OF ECONOMICS. FWS. 3 hours.

A course dealing with the structural organization of modern economic society, the ways in which it functions, the maladjustments in its operation resulting in problems calling for remedial action, and the policies pursued in attempts to make it function better. The study includes an analysis of rent, interest, profits, wages, prices, banking, foreign trade and the economic function of government.

EDUCATION 51. INTRODUCTION TO EDUCATION. F. 3 hours.

A short survey of the field of education. Important aspects considered are: present philosophies of education, major problems of education, present practices, and the school as a social institution. Required of education majors.

EDUCATION 52. ELEMENTARY INSTRUCTION METHODS. W. 3 hours.

Methods used in elementary instruction are examined in this course. Problems having to do with assignment, motivation, learning, appreciation, drill, and guidance in study are considered.

EDUCATION 53. CLASSROOM MANAGEMENT. S. 3 hours.

Principal elements in successful classroom activities are presented. Included are such factors as the daily schedule, playground activities, health programs, records and reports, tests and measurements, and problems of discipline.

EDUCATION 71, 72, 73. STUDENT TEACHING. FWS. 2 hours.

This course includes both theory and practice of instruction. Student teachers must teach two half-day periods a week in the public schools of Grand Junction. They must observe the work of a qualified teacher of a given grade or subject and then must teach independently. This laboratory work is supplemented by discussions, lectures, excursions, and visits. Student teachers are supervised by the regular instructors and principals as well as by a college representative. The course is required of all students expecting to teach.

GEOGRAPHY 1. ECONOMIC GEOGRAPHY. F. 3 hours.

An analysis of the world distribution of important occupations and commodities with emphasis upon outstanding producing and consuming areas.

GEOGRAPHY 2. HUMAN GEOGRAPHY. W. 3 hours.

A study of populations with regard to geographic factors. How human life is affected by differences in topographical and climatic surroundings and by the presence of natural resources.

GEOGRAPHY 3. POLITICAL GEOGRAPHY. S. 3 hours.

Political and historical significance of earth features; geographic aspects of the internal development and external relations of nations and regions.

HISTORY 1, 2, 3. MODERN EUROPEAN HISTORY.
FWS. 3 hours.

This course seeks to give the student an understanding of peoples and events which helps to clarify the present world situation. It deals with great movements, political, social, and economic, from the beginning of modern times. The development of a spirit of nationalism, rise of the middle class, economic revolution, and changing political conceptions are studied. The Spring Quarter deals with the present time by use of contemporary materials. Class discussions, reports, lectures, text book and assigned readings are used to accomplish the purposes of the course.

HISTORY 41, 42, 43. CURRENT AFFAIRS. FWS.
1 hour.

The purpose of this course is to acquaint the student with the problems of the day. In addition to studying week-to-week happenings in the world, the course stresses reasons for, and backgrounds of these events. Economic and social movements, as well as political problems are discussed. Current periodicals are the chief source of materials. May be repeated for credit.

HISTORY 51, 52, 53. UNITED STATES HISTORY. FWS.
3 hours.

This is a general course in the history of the United States, primarily for Sophomores. It deals with developments from the opening of the American continent to the white man to the present time. The establishment and development of American institutions is stressed throughout. Economic trends, the development of democracy, the westward movement of people, the rise of interest and participation in world affairs are typical of movements studied. Present day political, economic and social problems and world issues are studied. Class discussion, reports, lectures, textbooks, a wide range of reading in books and periodicals are used.

POLITICAL SCIENCE 1, 2, 2. AMERICAN GOVERNMENT. FWS. 3 hours.

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

PSYCHOLOGY 51, 52, 53. GENERAL PSYCHOLOGY.
FWS. 3 hours.

This course is designed to give the student the fundamental understanding of the causes and methods of behavior, and to give him practical suggestions for the control and improvements of his own life. Factors in development, motivation, emotions, the special senses, attention and perception, learning, and thinking. The role of psychology in the solving of personal and social problems including a study of individual differences, intelligence, dynamic factors in personality, and social and vocational adjustment.

SOCIAL SCIENCE 1, 2, 3. SOCIAL SCIENCE SURVEY. FWS. 3 hours.

This course introduces the student to the field of the social sciences and acquaints him with the common elements which bind them together. The fields of economics, political science, sociology and related sciences are presented with the material grouped around institutions, not traditional subject matter. The course is concerned with giving an understanding of the issues involved and of the common social problems thereby helping to solve them. It is particularly recommended to students who are not majoring in the field of social science.

SOCIOLOGY 61, 62. GENERAL SOCIOLOGY. FWS. 2 hours.

A course designed to familiarize the student with basic group relationships. Various approaches are made to the study of social growth, social change, and social control.

SOCIOLOGY 63. AMERICAN SOCIAL PROBLEMS. S. 2 hours.

A study of specific social problems, including crime, poverty, housing, and those connected with the family and its place in society, with consideration given to causes, treatment and possible remedies for existing undesirable conditions.

SOCIOLOGY 78. MARRIAGE AND THE FAMILY. S. 3 hours.

The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family, efforts at stabilization, and the problem of adjustment to a changing society. Prerequisite: Sophomore standing or permission of the instructor.

TRADES AND INDUSTRIES

Trades and Industry courses listed below are vocational training courses intended to meet the basic needs of individuals who wish to train or re-train for gainful employment in trades.

In no case are trade courses designed to give any transfer credit at higher institutions.

T & I 1, 2, 3. AUTO MECHANICS. FWS. 3-8 hours.

Automobile lubrication, chassis assembly and repair, tires, brakes, battery, engine including carburation and all electrical units, transmission and differential, steering mechanism, trouble shooting. Automotive machinist work to include complete engine overhaul and repair.

T & I 11, 12, 13. RADIO. FWS. 3-8 hours.

Shop laboratory practice leading toward employment as a technician in the radio and sound fields. Training in radio repair and maintenance. Tools, processes, and materials of the trade in the specialized fields of Radio Wireman, Mechanic, Serviceman, and Technician.

T & I 21, 22, 23. MACHINE SHOP. FWS. 3-8 hours.

General work carried on in machine shops and factories. Operations of the following machinery: engine lathe, shapers, planers, milling machines, grinders, drill presses, and other machines found in machine shops. Specialization will be permitted in a particular field where the student may be trained for a definite job in industry.

T & I 31, 32, 33. AIRPLANE MECHANICS. FWS. 3-8 hours.

Elementary instruction in basic elements of aircraft engine mechanics; bench work; hand and machine tools; engine teardown, inspection, assembly; some work on engine accessories such as magnetos, generators, carburetors, propellers, pumps, governors and superchargers.

SUMMER QUARTER

1946

The summer quarter will begin June 17, and end August 23, 1946. The quarter will be divided into two terms of five weeks each and students may receive credit for work done in either term or for the entire quarter. Fifteen hours of credit may be earned during the quarter.

SCHOOL OF COMMERCE

Beginning and advanced courses in bookkeeping, shorthand, and typewriting will be offered. Other courses will be given according to demand from among the following: Business English, business machines, business arithmetic, office practice, and business law.

SCHOOL OF ARTS AND SCIENCE

During the first term, instruction will be given in freshman English 1, 2, and 3, and review English; college algebra, trigonometry, analytical geometry and a review of the essentials of mathematics; other courses according to demand, especially to meet the needs of teachers.

Courses for the second term include inorganic chemistry, 1, 2, and 3; and mechanical drawing, 1, 2, and 3, and refresher courses if the demand is sufficient.

FEES

Matriculation fee	\$ 5.00
Business courses for the ten weeks quarter:	
One course	15.00
Two courses	25.00
Three or more courses	35.00
All courses for a five weeks term:	
Each course	10.00
Laboratory fee, Chemistry	5.00

STAFF

Horace J. Wubben	President
Mattie F. Dorsey	Registrar
Lillian Sabin	Librarian
Hilda Besse	Education
Edward M. Day	Business
R. M. Dorsey	Mathematics, Mechanical Drawing
Maxine Fairchild	Business
Maybelle Gordon	Business
Granhilde Gustafson	Chemistry
Esther Herr	English
L. B. Whetton	Education

