

MESA COLLEGE

GRAND JUNCTION

COLORADO



1950



Catalog



1951

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MESA COLLEGE

Catalog

1950

1951



Grand Junction, Colorado

MARY RAIT HALL *=====



● Mesa College Women's Dormitory has been occupied since September, 1948. This unit, which will house seventy women, accommodates out-of-town women students. The dormitory furnishes a social center for women's activities, and provides for wholesome group living.

Foreword . . .

Mesa College is on the march. Just as Grand Junction has been expanding and progressing Mesa College has been keeping pace with the increased educational demand. Although its buildings have been used practically to capacity since the war, it has not turned away a student for lack of room. It has made great strides toward meeting the vocational and adult education needs of the community.

There is today throughout the land an awareness of the importance of the community college. President Conant of Harvard University said recently that there is little need for expansion of the traditional four-year college but a vast area of service for the two-year community or junior college to meet the demand for adult, continuation, and vocational education in many localities. Mesa College is attempting to meet this challenge in this area.

The post-war period has seen a great expansion in plant facilities of Mesa College. In addition to the original administration building first occupied in 1940, there have been added a beautiful women's residence hall, the Mary Rait Hall, with a capacity of seventy women; four apartment buildings housing twenty-two married veterans and their families; a temporary classroom building; and a cafeteria. In addition the college has acquired from the Mesa County Commissioners the Mesa College farm for its use. This property has eleven buildings and is used both in the agricultural program of the college and for the supplying of produce for the cafeteria.

The increase in faculty and the addition of courses make Mesa College, as never before, an intellectual, artistic, musical, and educational center for the western third of Colorado. It is the ambition of the college to participate in and to stimulate all types of advanced and continuation education and to assist in furthering cultural standards in this region.

More than 7,800 students have entered the college since its inception in 1925. Hundreds have gone on successfully to complete their advanced degrees in colleges and universities of the United States. Hundreds more have been graduated and have taken their places in the commercial, industrial, family and community life—all much better equipped for having shared in college opportunities.

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College Calendar . . .

SPRING QUARTER 1950.

March 25	New student registration
March 27	.....	Classes Begin
June 5	.....	Final examinations Begin
June 9	.....	Commencement

SUMMER QUARTER 1950.

June 12	.....	Classes begin
July 14	.....	First term ends
July 17	.....	Second term begins
August 18	.....	Summer Quarter ends

FALL QUARTER 1950.

September 1	.....	Credentials due
September 13-14	.....	Faculty Workshop
September 15	.....	Pre-registration, former students
September 18	.....	Registration begins
September 18-20	.....	New student tests and counseling
September 21	.....	Classes begin
October 4	.....	Last day to change program
October 26-27	.....	C. E. A. meeting
November 23-24	.....	Thanksgiving vacation
November 30	.....	Pre-registration counselling
December 13	.....	Final examinations begin
December 15	.....	Fall quarter ends

WINTER QUARTER 1951.

January 2	.....	Registration
January 3	.....	Classes begin
January 17	.....	Last day to change program
February 28	.....	Pre-registration counselling
March 14	.....	Final examinations begin
March 16	.....	Winter Quarter ends

SPRING QUARTER 1951.

March 24	.....	New student registration
March 26	.....	Classes begin
April 6	.....	Last day to change program
May 30	.....	Memorial Day holiday
June 4	.....	Final examinations begin
June 8	.....	Commencement

SUMMER QUARTER 1951.

June 11	.....	Registration
June 12	.....	Classes begin
June 23	.....	Classes meet Saturday
July 4	.....	Holiday
July 13	.....	First term ends
July 16	.....	Second term begins
August 17	.....	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. Dilley, Treasurer.....	Clifton
Mrs. Clyde Biggs.....	Grand Junction
Garold McNew.....	Collbran

OFFICERS OF ADMINISTRATION.

Horace J. Wubben, B. A., M. A.....	President of the College
Mary Rait, B. A., M. A.....	Vice President, Dean of Women
Victor Charles, B. A., M. A.....	Dean of Men
Mattie Dorsey, B. A., M. A., Ph. D.....	Registrar

INSTRUCTIONAL AND ADMINISTRATIVE PERSONNEL

Rebecca Anderson.....	Administrative Secretary
B. S. E., University of Arkansas.	
Margaret Ann Arbenz.....	Librarian
B. A., M. A., University of Colorado.	
B. S. in L. S., University of Denver.	
Victor F. Charles.....	Social Science
B. A., University of Iowa.	
M. A., Colorado State College of Education.	
Adv. Grad. Study, University of Colorado.	
Helen Christensen.....	Home Economics
B. S., University of Utah.	
Graduate Study.	
Mary M. Coleman.....	Dormitory Director
B. S., Alfred University	
M. P. S., University of Colorado.	
Elizabeth H. Cramer.....	Speech, Dramatics
A. B., University of Colorado.	
M. A., University of Illinois.	
Adv. Grad. Study, Northwestern University;	
University of Chicago.	
Edward M. Day.....	Commerce
A. B., M. A., Colorado State College of Education.	
Mattie F. Dorsey.....	Registrar
A. B., Florida State College for Women.	
M. A., Ph. D., University of Colorado.	
Alfred Goffradi.....	Commerce
A. B., M. A., Western State College of Colorado.	
Harry Hammer.....	Music
B. M., M. M., Syracuse University.	
Junc Haywood.....	Book Store Manager
B. S., Southwestern Institute of Technology.	
M. A., Colorado State College of Education.	

- Kathleen Heidrich English
A. B., Kansas Wesleyan University,
M. A., University of Denver.
- Lowell Heiny Chemistry, Mathematics
A. B., McPherson College.
M. A., Colorado State College of Education.
Adv. Grad. Study, University of Colorado.
- Esther Herr English Language, Literature
A. B., State University of Iowa.
A. M., Columbia University.
- Elmer G. Houston Maintenance Superintendent
- Lois A. Johnson Physical Education
A. B., Colorado State College of Education.
- Lorraine Johnston Commerce
Studied at Western State College
and the University of Colorado.
- Lloyd Jones Psychology, Physical Education
A. B., M. A., Western State College of Colorado.
- May Belle Gordon Kanavel Commerce
B. A., B. E., University of Colorado.
M. S., School of Commerce, University of Denver.
- Marie Killheffer English Language, Literature
A. B., Cornell College, Iowa.
M. A., University of Chicago.
Adv. Grad. Study, University of Chicago.
- Kenneth LeMoine Mathematics, Engineering Drawing
A. B., M. Ed., University of Colorado.
- Melvin McNew Chemistry, Mathematics
A. B., M. A., Western State College of Colorado.
- Harlan R. Morton Commerce
B. Ed., Western Illinois State Teachers College.
M. Ed., University of Colorado.
- Paul Phillips Geology, Social Science
B. S., University of Arkansas.
M. S., University of Oklahoma.
- Mary Rait History
B. A., M. A., University of Colorado.
Adv. Grad. Study, University of Washington;
Columbia University; University of Colorado.
- Alvie Redden Art
B. S., West Texas State College.
M. F. A., In Progress, University of Colorado.
- Dallas Sutton Biology Education
A. B., University of Colorado.
M. S., Northwestern University.
Adv. Grad. Study, University of California.
- Jay Telman Physical Education
B. S., Utah State Agriculture College.
Adv. Study, University of Southern California.

Marie Trecco	Voice, Choir
Pupil of Luisa Novelli and R. M. Montague.	
Herbert Weldon.....	Mathematics, Physics
A. B., M. A., Western State College of Colorado.	
Lester B. Whetten	Agriculture
B. A., Brigham Young University.	
M. S., Brigham Young University.	
Adv. Grad. Study, University of Chicago; University of Colorado; Colorado A. & M. College.	
Horace J. Wubben	President
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
Ruby Harper	Piano
Anna May Heiny.....	Piano
Marion L. Jacobs.....	Brass Instruments
Charles Myers	Piano
Cloyce B. Stokes.....	Woodwind Instruments

VOCATIONAL PERSONNEL

Herbert L. Benson.....	Director
B. S., Kansas State Teachers College.	
M. E., Colorado A. & M. College.	
Harold M. Routh, B. S., Colorado A. & M. College ..	Assistant Director
Edson W. Barr, B. S., Colorado A. & M. College.....	Supervisor,
Farm Training	
Mayna Blaney, R. N.,	Practical Nursing
G. G. Constantine.....	Machine Shop
C. C. Dotts.....	Plumbing
Merle Moorish, A. B., Univ. of Southern California.....	Supervisor,
Farm Training	
E. R. Nelson.....	Electrical Shop
Fred Sperber	Carpentry
Charles Swisher, B. S., Colorado A. & M. College.....	Supervisor,
Farm Training	
C. F. Turner.....	Automechanics
D. G. Whitford.....	Body and Fender

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. CLOSER 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 at 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 651 junior colleges.

BUILDING AND EQUIPMENT.

The Mesa College building covers nearly one-half city block in area. The two-story structure is 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. A frame structure on the campus furnishes four additional class rooms.

Muir Memorial Library, the college library, occupies a well-lighted and air-conditioned room seating ninety. The book collection, which is growing steadily, numbers about 11,000 volumes, for the most part arranged on open shelves. Eighty periodicals are received currently.

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.

A shop serves the needs of students desiring such vocational courses as auto mechanics, electricity, sheet metal, radio and similar work.

A fully-equipped cafeteria provides meals for both boarding and day students.

Mary Rait Hall houses out-of-town women students and serves as a campus social center.

LOCATION.

Mesa College is located at North Avenue and Twelfth Street about one and one-quarter miles north and east of the main business district of Grand Junction. The College grounds include one hundred ten acres in four different areas.

The residential section in the vicinity of Mesa College is becoming one of the most beautiful and modern districts in the city.

HOUSING

The college administration requires that students live in houses approved by the college. A list of accommodations is available in the Deans' offices. Men students live in private homes and apartments. Out-of-town women students must live in the dormitory unless they find it necessary to work for room and board. Twenty-two dwelling units on the campus provide housing for married veterans and their families.

LINCOLN PARK.

Directly to the south and east of Mesa College across North Avenue is the beautifully landscaped Lincoln Park, the recreation center of Grand Junction. The park includes a green turfed football field, and a quarter-mile 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, all available to college students.

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 elected student officers, class representatives, and faculty members. The student activity fee, paid at registration, is administered by the council to further student projects.

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. The group helps new students become acquainted and feel at home in Mesa College. It sponsors teas, all-women parties, athletic events, and all-college social functions.

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.

MESA COLLEGE PEP BAND

All college band musicians are invited to join this active group that is the mainstay of school spirit.

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.

DELTA PSI OMEGA.

Delta Psi Omega, national honorary dramatics fraternity, is open to students who have taken part in play activities of the college. Students who contribute to the college plays, in acting, stage work, designing, or playwriting, are eligible to membership.

EL TORO CLUB

A men's organization whose purpose is to promote good sportsmanship and to encourage student participation in school activities.

FUTURE TEACHERS OF AMERICA.

The local chapter of F.T.A. is affiliated with the state and national organizations. 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.

INTERNATIONAL RELATIONS CLUB.

This club is a member of the national organization which has chapters in many colleges throughout the United States. Students meet to discuss problems of the day, with the hope of gaining understanding of issues and developing tolerance and breadth of vision. The club is open to all students interested.

"M" CLUB.

Open to all letter men. Sponsors good sportsmanship.

MAVERICK.

The Mesa College Yearbook, edited and managed by students.

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.

PEP CLUB

A group of women organized to assist in building school spirit, to lead the cheering section at games, and to entertain at intermissions.

THE ROUND-UP.

An annual publication of selected literary compositions of students, compiled and edited by the advanced composition class.

SKI CLUB.

The Ski Club is open to all students interested in this favorite winter sport. Four ski runs, Leadville, Steamboat Springs, Aspen, and Grand Mesa, are accessible all winter.

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.

SYMPHONY ORCHESTRA.

A community orchestra is composed of outstanding musicians in the area and in the college. This orchestra presents at least two public concerts each year.

VARSIITY ATHLETICS.

Mesa College is a member of the Colorado Junior College Inter-scholastic Association. Varsity sports include football, basketball, baseball, track, tennis, boxing and wrestling. In addition to participating in regularly scheduled conference and invitational track meets, Mesa College sends outstanding men and teams to regional and national Junior College meets and tournaments.

COLLEGE-COMMUNITY RELATIONS

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

Weekly radio programs are broadcast over both KFKJ and KEXO, in which students and faculty participate.

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

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

EXPENSES AT MESA COLLEGE

BOARD AND ROOM.

The cost of board and room is between fifty and sixty dollars per month. Women students pay fifty-five dollars per month, or one hundred fifty dollars per quarter, in advance, for room in the dormitory and meals at the cafeteria. The cost of rooms for men in private homes depends upon the type of accommodations furnished and ranges from fifteen to twenty-five dollars. Meals in the cafeteria cost forty dollars per month.

BOOKS AND SUPPLIES.

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

TUITION.

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.

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.

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.

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.

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	15.00 per quarter
Student Activity Fee	2.00 per quarter

LABORATORY FEES

Agriculture	\$ 3.00 per quarter
Anatomy	10.00 per quarter
Applied Music, each instrument	23.00 per quarter
Art (for each quarter hour taken)	1.00 per quarter
Commerce, each laboratory class	3.00 per quarter
Education, each class	1.00 per quarter
Home Economics (for each quarter hour taken)	1.00 per quarter
Laboratory Science, each, except Anatomy	5.00 per quarter
Shop (for each quarter hour taken)	2.50 per quarter
Related Training classes .....	.50 per clock hour

EVENING SCHOOL FEES

Art	\$15.00 per quarter
Commerce, one course	15.00 per quarter
Commerce, two or three courses	30.00 per quarter

MISCELLANEOUS FEES.

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

PART-TIME STUDENT FEES.

Students taking a part-time course are charged the matriculation fee, a class fee of two dollars per quarter for each class hour for which they register, plus the regular laboratory fee for any laboratory course they may take and the appropriate non-resident fee for students who are not residents of Mesa County. A part-time course consists of fewer than 12 quarter hours.

PAYMENT OF FEES.

All tuition and fees are due and payable at the time of registration—the first day of each quarter—and registration is not complete until the student's obligation is met in full. Any student who enrolls and attends classes is liable for payment of fees even though he may drop out of school. No student having unpaid financial obligations of any nature due the college shall be allowed to graduate or to receive any transcript of credits.

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 gives a scholarship to one freshman from each high school in this region based upon the recommendation of the high school principal, which covers tuition for one year.

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 up to \$25.00 per quarter 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 award scholarships to two freshmen, recommended by the college faculty, for use during their sophomore year at Mesa College.

Two scholarships are awarded to two freshmen, one in county and one out of county, to be recommended by the college faculty, for use during their sophomore year at Mesa College by the Elks Skidmore Scholarship Fund.

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 at Mesa.

Comraderie Club and the local Branch of A.A.U.W., each awards a scholarship to a freshman woman to be used during her sophomore year at Mesa. Alfrusa Club of Grand Junction offers a two-year scholarship to a woman graduate of Mesa to be used in pursuing further study.

The Wednesday Music Club awards two freshman scholarships in applied music on the basis of auditions held each spring; Kiwanis Club awards one sophomore music scholarship upon recommendation of the faculty.

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 a part of their expenses while attending Mesa College will be assisted by the college in securing employment. 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 24. 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 48 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.

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, 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.

ADULT EDUCATION

Opportunities for adults to receive both academic and vocational preparation in various fields are available at the College. Subjects designed to meet the needs and desires of those enrolled are offered. Furthermore, the College endeavors to offer certain courses of a cultural nature to satisfy the demand for those who have a desire to learn, motivated by the impulse of interest. The majority of the offerings at the adult level are organized as short-term courses, excepting those in Art, Commerce, and Music Appreciation. Recent offerings include Candy Making, Tailoring, Leathercraft, Speech, Millinery, Upholstering and Advertising. The general policy of the College in regard to adult education is to provide instruction in any field for which there is a definite need and sufficient demand.

EVENING SCHOOL OF COMMERCE

The basic purpose of the Evening School of Commerce is to afford the people of the community an opportunity to receive training which will fit them for employment, and also to offer supplementary training in the fields in which individuals are now engaged for the purpose of advancement in these fields.

Courses are offered regularly five evenings each week during fall, winter, and spring quarters, from 7:00 to 10:00 p.m. A student may take a maximum of three courses per quarter at a cost of \$15 for one course or \$30 for two or three. These courses may be taken for college or high school credit, or on a non-credit basis. The curriculum for the Evening School of Commerce is built around the following main courses: Bookkeeping and Accounting, Shorthand, Typewriting and Office Machines.

Courses offered once during the school year include Business Mathematics, Business English, Business Law and Business Correspondence.

Other courses in the field of business are offered when there is sufficient interest to organize a class.

RELATED TRAINING

Related training courses are given according to requirements of the Veterans Administration for those veterans who are taking on the job training. It is provided in such fields as carpentry, plumbing, electricity, sheet metal, auto mechanics, and other apprentice trades. A total of 144 attendance hours a year is required.

ACADEMIC INFORMATION

ADMISSION TO MESA COLLEGE.

Admission to Mesa College is granted to those who file 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.

Students honorably dismissed from other colleges or institutions of similar rank may be admitted to advanced standing in Mesa College. Students applying for advanced standing will 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 program of study.

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.

NOTE--Students planning to attend under the G. I. Bill of Rights (P. L. 346 and P. L. 10) should come prepared to finance their living expenses for a period of sixty days. This is the normal length of time required to set up a veteran's file in the regional office and for the issuance of monthly checks.

ADMISSION OF SPECIAL STUDENTS.

Mature individuals who lack some of the requirements for admission as regular students may be admitted as special students on a full or part-time basis. Special students may become regular students upon fulfilling the requirements for entrance. This may be done by passing 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 sense 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 counselor 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 of higher learning; to determine amount of credit to be given for work done outside of class; and to provide a basis for exemptions from certain courses.

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 fourteen different departments. These are Agriculture, Art, Biological Science, Commerce, English, Foreign Language, Home Economics, Mathematics and Engineering, Music, Physical Science, Physical Education, Related Training, Social Science, and Trades and Industry.

COURSES OF STUDY REQUIREMENTS.

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

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.

REGISTRATION.

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

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.

N. C. D. COURSES.

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

TIME OF REGISTRATION.

Fall Quarter registration will begin at 9:00 a.m., September 18, 1950. 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 presented 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. The matriculation fee of five dollars 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.

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.

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. Complete with an average of C, or better, 93 hours, including American institutions, (government, history or literature) 9 hours; Freshman English, 9 hours; Physical Education, 3 hours.
4. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be \$1.00.
5. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
6. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.
7. 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 specific requirements of each. These include completion certificates in Business, 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 wish to choose their courses without regard to specific requirements. Those who meet the general requirements for graduation are entitled to the diploma.

The Associate in Arts degree is granted to students who matriculate as regular students, spend at least one year in residence, meet the general graduation requirements and complete the following: physical science, 9 hours; history or other social science,

9 hours; literature, 9 hours; Biology or Psychology, 9 hours; Physical Education, 3 hours; approved electives, 24 hours; free electives, 21 hours. All electives must be transfer courses.

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.

The Associate in Science degree is granted to regular students who include the following courses in their program, and who meet the general graduation requirements: Science and mathematics, 39 hours; approved electives, 24 hours; free electives, 18 hours.

The Associate in Commerce degree is granted to students who meet the general requirements for graduation and complete the following courses: Mathematics or Physical Science, 8 hours; Social Science, 18 hours; Business Law I, 3 hours; Business Mathematics, 4 hours, Business Machines, 2 hours.

In addition, those who elect the Accounting Option must take intermediate Typewriting; Accounting 51, 52, 53; Business Law II; and necessary prerequisites. Those who elect the Secretarial Option must take Accounting 13; and Secretarial Science 11, 12, 23, 31, and 33.

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. Mesa College graduates have been accepted by more than a hundred colleges and universities during recent years.

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 catalog of the particular college he expects to enter and to follow as closely as possible its particular recommendations for programs of study.

GENERAL REGULATIONS

LATE REGISTRATION.

Students registering late will be required to make up the work they have missed. Students are not permitted to enroll after the second week in any quarter, for a full-time class schedule. 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 add a course for credit or transfer from one subject to another after the second week of the quarter. If it becomes necessary for a student to withdraw from a course he must make arrangements with the Registrar and his counselor. 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 twelve 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 petitions committee.

Students who are gainfully employed must limit class load according to the number of hours they work a day, with due consideration given to their ability.

COURSE CONTINUATION.

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

SCHOLARSHIP STANDARDS.

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

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

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

EXAMINATIONS.

Final examinations are held regularly at the end of each quarter. Students are required to take the final examinations at the ap-

pointed 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. Students who fail to appear for the final examination without notifying the instructor will receive an F in the course.

COURSE REPORTS.

Individual reports are sent to students, or parents 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; U, unsatisfactory; WP, withdrawn, passing; WF, withdrawn, failing; TF, unapproved withdrawal; 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 does not pass 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. To complete a course in which a grade of incomplete has been received, a student must register for the course during the next quarter he is in attendance.

WITHDRAWAL FROM COLLEGE.

A student who desires to withdraw from college should notify his instructors and make formal application to the Registrar for permission to withdraw. If permission is granted, the student will receive a grade of WP for each course in which he is passing at the time of withdrawal, and a grade of WF for each course in which he is not passing.

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

HONORABLE DISMISSAL.

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

TYPE CURRICULUMS

The following curriculums are outlined to assist students in planning their courses according to requirements in certain fields. Counselors will assist in selecting courses for other fields which may be desired by students and in accordance with requirements of specific institutions.

ACCOUNTING

FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Business 1	3	Speech 1	3	Business 13	3
Business 11	3	Business 12	3	Accounting 2	4
Business 41	4	Accounting 1	4	Science 3	2
Science 1	3	Science 2	3	Physical Education	1
Physical Education	1	Physical Education	1	Elective	5
Electives	2	Elective	2		
	16		16		16

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Accounting 51	3	Accounting 52	3	Accounting 53	3
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Economics 51	3	Economics 52	3	Economics 53	3
Business 31	1	Business 32	3	Business 53	3
Elective	6	Elective	4	Elective	4
	16		16		16

AGRICULTURE (Transfer)*

FIRST YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Agriculture 1	3	Agriculture 2	3	Agriculture 3	2
Biology 21	3	Biology 22	3	Agriculture 23	5
Mathematics 1	4	Chemistry 21	3	Chemistry 22	5
Lit. 41 or Eng. 21	2	English 1	3	English 2	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		17		16

SECOND YEAR

Fall Quarter		Winter Quarter		Spring Quarter	
	Hours		Hours		Hours
Agriculture 51	5	Agriculture 52	5	Agriculture 53	5
Agriculture 41	4	Agriculture 42	3	Mathematics 2	3
Amer. Institutions	3	Biology 31	3	Physics 1	3
English 3	3	Amer. Institutions	3	Amer. Institutions	3
Elective	2				
	17		16		16

* Terminal students may arrange a program to suit their present or future needs, with the aid of their counselor.

ART

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
History 1	3	History 2	3	History 3	3
Art 1	2	Art 2	2	Art 3	2
Art 11	3	Art 12	3	Art 13	3
Art 21	2	Art 22	2	Art 23	2
Elective	2	Physical Education	1	Physical Education	1
Physical Education	1	Elective	2	Elective	2
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Literature 51	3	Literature 52	3	Literature 53	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Art 61	3	Art 62	3	Art 63	3
Lab. Science	4	Lab. Science	4	Lab. Science	4
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
	16		16		16

BUSINESS ADMINISTRATION

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Mathematics 1	4	Mathematics 2	3	Speech 1	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Physical Education	1	Physical Education	1	Physical Education	1
Elective	4	Elective	5	Elective	5
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Accounting 51	3	Accounting 52	3	Accounting 53	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Economics 51	3	Economics 52	3	Economics 53	3
Elective	4	Elective	4	Elective	4
	16		16		16

ONE YEAR BUSINESS TRAINING

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Accounting 1	4	Accounting 2	4	Economics 43	3
Business 1	3	Business 21	1	Business 41	4
Business 2	2	Business 52	3	Elective	4
Business 3	3	Business 12	3	Business 13	3
Business 11	3	Sec. Science 2	2	Sec. Science 11	2
Sec. Science 1	2	Elective	3		
	16		16		16

ONE YEAR CLERICAL COURSE

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	3	Accounting 1	4	Accounting 2	4
Business 2	2	Business 22	1	Business 23	1
Business 3	2	Business 52	3	Elective	3
Business 11	3	Business 12	3	Business 13	3
Sec. Science 1	2	Sec. Science 2	2	Sec. Science 11	2
Business 41	4	Elective	3	Economics 43	3
	16		16		16

PRE-DENTISTRY

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Mathematics 1	4	Mathematics 2	3	Biology 5	3
Biology 1	3	Biology 2	3	Speech 1	3
Physical Education	1	Elective	2	Physical Education	1
Elective	1	Physical Education	1	Elective	2
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41	4	Physics 42	4	Physics 43	4
Shop	5	Chemistry 51	5	Chemistry 52	5
Psychology 51	3	Psychology 52	3	Psychology 53	3
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

EDUCATION

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Social Science or Literature	3	Social Science or Literature	3	Social Science or Literature	3
Mathematics 1	4	Mathematics 2	3	Elective	3
Biology 1	3	Elective	2	Art 44	2
Elective	2	Biology 2	3	Biology 4	3
Physical Education	1	Music 12	1	Music 13	1
	16	Physical Education	1	Physical Education	1
			16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Education 51	3	Education 71	6	Education 53	3
Education 52	3	Psychology 52	3	Art 73	3
Psychology 51	3	Sociology 62	2	Psychology 53	
Sociology 51	2	Amer. Institutions	3	or 74	3
Amer. Institutions	3	Elective	2	Sociology 63	2
Elective	2		16	Amer. Institutions	3
	16			Elective	2
					16

1950 — CLASS

FALL			WINTER			SPRING			FALL			WINTER			SPRING																				
8:30 A. M.									9:25 A. M.									10:20 A. M.																	
DAILY									DAILY									DAILY																	
Agr 61 Biol 51* Bus 11 Math 11 Math 51 SeSc 10 Span 1	Bus 21 Math 11 Math 52 SeSc 11 Span 2 Math 1	Agr 23 Biol 53* Bus 22 Math 12 Math 52 SeSc 12 Span 3 HEC 3**	Bus 41 Bus 21 Mus 1 SeSc 21 SeSc 23	Agr 72 Acct 1 SeSc 1 Mus 2 SeSc 22 SeSc 31	Acct 2 SeSc 2 Mus 3 SeSc 23 SeSc 32	Agr 51 Biol 21* Frcb 1 Bus 31 SeSc 11	Agr 52* Biol 22* Frcb 2 Bus 41 SeSc 12	Agr 53 Frcb 3 SeSc 1 SeSc 33	MONDAY, WEDNESDAY and FRIDAY									MONDAY, WEDNESDAY and FRIDAY									MONDAY, WEDNESDAY and FRIDAY								
Acct 51 Chem 1* Eng 1 Hist 51 HEC 1** Psy 51 PEW	Soc 44 Agr 62 Acct 52 Biol 52 Chem 2* Eng 2 Hist 52 Psy 52 PEW	Acct 53 Math 2 Chem 3* Eng 3 Hist 53 Spec 1 Psy 53 PEW	So Sc 1 Agr 1 Econ 51 Eng 1 Eng 3 Math 03 Span 51 Spec 1 Lit 51 PEW	SoSci 2 Econ 52 Eng 2 Eng 1 Math 2 Span 52 Biol 31 Lit 52 PEW	SoSci 3 Phys 1 Econ 53 Eng 3 Eng 2 Math 3 Span 53 Biol 32 Lit 53 PEW	Bus 1 Chem 1* Eng 1 Hist 11 Phys 41* Geog 1 Psy 51 Mus 51 PEM	Spec 1 Chem 2* Eng 2 Hist 12 Phys 42* Geog 2 Psy 52 Mus 52 PEM	Econ 43 Chem 3* Eng 3 Hist 13 Phys 43* Geog 3 Psy 53 Mus 53 PEM	MONDAY, TUESDAY and THURSDAY									MONDAY, TUESDAY and THURSDAY									MONDAY, TUESDAY and THURSDAY								
Art 51** Eng 21 HEC 21** Spec 51 Mus 10	Agr 2 Art 82** Bus 3 Spec 52 Mus 20	Biol 53** Art 93** Eng 21 Spec 13 Mus 30	Biol 21** Lit 41 MDr 1*** Span 61 Spec 11 Soc 61	Biol 22** Lit 42 MDr 2*** Span 62 Spec 12 Soc 62	Lit 43 MDr 3*** Span 63 Spec 13 Soc 63	Bus 2 Eng 01 Eng 51 PE 11 Mus 11	Eng 21 Eng 52 PE 12 Mus 12	Eng 53 PE 13 Mus 13	TUESDAY and THURSDAY									TUESDAY and THURSDAY									TUESDAY and THURSDAY								

* LABORATORY PERIODS:

Biology 1, 2, 3, Chemistry courses and Physics 1, to be arranged with instructors.

Others are to be scheduled as follows:

Agr 1 Tues, Thurs 2:25-4:10—Agr 2 Fri. 1:30-3:15

Agr 51, 52, 53 Thurs. 9:25-11:10.

Agr 61 Tues. 1:30-3:15—Agr 62 Thurs. 8:30-10:15

Biology 21, 22 Tues, Thurs. 9:25-11:10—Biology 31, 32 Tues, Thurs. 1:30-3:10.

Biology 51 Mon, Wed, Fri. 8:30-10:15—Biology 53 Tues, Thurs. 8:30-10:15

Geology 1, 2, 3 Tues, Thurs. 1:30-3:15

Physics 41, 42, 43, 51, 52, 53, Thurs. 1:30-4:10 or Tues. 2:25-5:00

** Class continues two hours in succession. *** Class continues three hours in succession.

SCHEDULE — 1951

FALL			WINTER			SPRING			FALL			WINTER			SPRING											
11:15 A. M.									1:30 P. M.									2:25 P. M.								
MONDAY, TUESDAY and THURSDAY									DAILY									DAILY								
Biol 41 Bus 2 Bus 13 Eng 1 Lit 61 PEM Mus 21 Psy 51	Bus 52 Bus 11 Eng 2 Lit 82 PEM Mus 22 Psy 52	Acctg 13 Bus 53 Bus 12 Eng 3 Lit 63 PEM Mus 23 Phy 74 Geog 53	Bus 15 Math 51 Geol 1* Phys 51* SeSc 1	Chem 21* Geol 2* Phys 52* SeSc 2 SeSc 13 Ed 71** HEC 42	Chem 22* Geol 3* Phys 53* SeSc 11	Bus 41 Acct 1 Bus 22 SeSc 31 Chem 61	Acct 3 Bus 23 SeSc 21 Chem 62	Bus 41 Bus 32 SeSc 22																		
WEDNESDAY and FRIDAY									MONDAY, WEDNESDAY and FRIDAY									MONDAY, WEDNESDAY and FRIDAY								
No classes meet Friday, reserved for Assemblies Wednesday, Freshman Orientation, Full Quarter Group meetings and conferences with counselors, Winter and Spring Quarters.									Bus 51 Ed 52 Eng 1 HEC 41** Psy 51 Spch 1 Frch 51 PEM	Chem 21* Bus 12 Eng 2 Psy 52 Spch 1 Frch 52 PEM Chem 51	Chem 22* Bus 13 Ed 53 Eng 3 HEC 43** Psy 53 Spch 1 Frch 53 PEM Chem 52	Art 71** Ed 51 PolSci 1 Sci 1 PEW Lit 31	Art 72** Bus 43 PolSci 2 Sci 2 MDr 1** PEW Lit 32	Art 73** Lit 44 PolSci 3 Sci 3 Chem 63 Mdr 2** PEW Lit 33												
TUESDAY and THURSDAY									TUESDAY and THURSDAY									TUESDAY and THURSDAY								
Math 1 Eng 31	Biol 2 Eng 32	Biol 3 Eng 33	Eng 01	Eng 21 PE 22	Art 44 HEC 63**	Art 1** Math 21 Hist 41	Art 2** Math 22 Hist 42	Art 3** Math 23 Hist 43																		
1:20 P. M. DAILY			3:20 P. M. MONDAY, WEDNESDAY and FRIDAY						3:20 P. M. TUESDAY and THURSDAY																	
PEM	PEM	PEM	PEW	PEW	PEW	Mus 31	Mus 32	Mus 33																		

Abbreviations:

- Ed—Education
- MDr—Mechanical Drawing
- PEM—Physical Education, men
- PEW—Physical Education, women
- SeSc—Secretarial Science
- Shnd—Shorthand

MUSIC ENSEMBLES

Choir meets 11:15 Mon., Tue., Thurs.
Orchestra meets 7:30-9:30 P. M. Tuesday.
Small Ensembles in voice or orchestral instruments—time to be arranged.

APPLIED MUSIC

Time for individual lessons to be arranged with instructors.

ENGINEERING (Regular)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 11 ..	5	Mathematics 12 ..	5	Mathematics 13 ..	5
English 1	3	English 2	3	English 3	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Mech. Drawing ..	3	Mech. Drawing 2 ..	3	Mech. Drawing 3 ..	3
Physical Education	1	Mathematics 22 ..	1	Mathematics 23 ..	1
	16	Physical Education	1	Physical Education	1
			17		17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 51 ..	5	Mathematics 52 ..	5	Mathematics 53 ..	5
Literature 61	3	Literature 62	3	Literature 63	3
Economics 51	3	Economics 52	3	Economics 53*	3
Physics 51	5	Physics 52	5	Physics 53	5
Physical Education	1	Physical Education	1	Physical Education	1
	17		17		17

* Statics for Mechanical Engineers

PRE-ENGINEERING

(Students who do not have credit in high school physics, solid geometry, advanced algebra, will need more than six quarters to meet junior entrance requirements at a university. They should plan to take work in the summer before the junior year, if possible.)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	Mathematics 11	5	English 2	3
Mathematics 1	4	Chemistry 2	5	Mathematics 13	5
Chemistry 1	4	Mathematics 22	1	Mech. Drawing 1	3
Mathematics 03	3	Physical Education	1	Chemistry 3	4
Physical Education	1	Mathematics 12	5	Mathematics 23	1
	15		17	Physical Education	1
					17

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Mathematics 51 ..	5	Mathematics 52 ..	5	Mathematics 53 ..	5
English 3	3	Physics 53	5	Physics 53	5
Literature 61	3	Literature 62	3	Mech. Drawing 3 ..	3
Physics 51	3	Mech. Drawing 2 ..	3	Literature 63	3
	16		16		16

GENERAL EDUCATION (Terminal)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Social Science 1	3	Social Science 2	3	Social Science 3	3
Science 1	3	Science 2	3	Science 3	3
Physical Education	1	Physical Education	1	Physical Education	1
Elective	6	Elective	6	Elective	6
	<u>16</u>		<u>16</u>		<u>16</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Physical Education	1	Physical Education	1	Physical Education	1
Elective	9	Elective	9	Elective	9
	<u>16</u>		<u>16</u>		<u>16</u>

GENERAL LIBERAL ARTS (Transfer)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
History 11	3	History 12	3	History 13	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Physical Education	1	Physical Education	1	Physical Education	1
Elective	5	Elective	5	Elective	5
	<u>16</u>		<u>16</u>		<u>16</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Language	5	Language	5	Language	5
Elective	5	Elective	5	Elective	5
	<u>16</u>		<u>16</u>		<u>16</u>

HOME ECONOMICS (Transfer)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Home Economics 1	3	Chemistry 21	5	Chemistry 22	5
Mathematics 1	4	Lit. 42	2	History 43	2
Biology 21	5	Home Economics 2	5	Home Economics 3	5
Physical Education	1	Physical Education	1	Physical Education	1
	<u>16</u>		<u>16</u>		<u>16</u>

HOME ECONOMICS (Transfer)—Continued

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Biology 51	5	Chemistry 51	5	Biology 53	5
Sociology 61	2	Sociology 73	3	Home Econ. 53	3
Home Econ. 51	3	Home Econ. 52	3	Physics	5
History 41	3	History 42	2	Amer. Institutions	3
Amer. Institutions	3	Physical Education	1		
Physical Education	1	Amer. Institutions	3		16
	16		16		

HOMEMAKING (Terminal)

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Economics 1	3	English 2	3	English 3	3
English 1	3	Home Econ. 2	5	Home Econ. 3	5
Home Econ. 21	2	Home Econ. 42	3	Home Econ. 43	3
Home Econ. 41	3	Physical Education	1	Physical Education	1
Elective	4	Elective	4	Elective	2
Physical Education	1			Art 44	2
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Home Econ. 51	3	Home Econ. 52	3	Home Econ. 53	3
Psychology 51	3	Psychology 52	3	Psychology 53	3
Amer. Institutions	3	Elective	4	Elective	4
Sociology	2	Amer. Institutions	3	Amer. Institutions	3
Accounting 11	2	Sociology 73	3	Economics 42	3
Elective	3				
	16		16		16

PRE-LAW

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Political Sci. 1	3	Political Sci. 2	3	Political Sci. 3	3
History 11	3	History 12	3	Elective	3
Mathematics 1	4	Elective	3	History 13	3
Physical Education	1	Mathematics 2	3	Speech 1	3
Elective	2	Physical Education	1	Physical Education	1
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
History 51	3	History 52	3	History 53	3
Sociology 61	2	Sociology 62	2	Sociology 43	2
Foreign Language or Science	5	Foreign Language or Science	5	Foreign Language or Science	5
English 51	2	English 52	2	English 53	2
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

PRE-MEDICAL

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Mathematics 1	4	Biology 31	5	Mathematics 2	3
Speech 11	2	Speech 12	2	Physical Education 1	1
Physical Education	1	Physical Education	1	Biology 32	5
Elective	2	Elective	1		
	<u>16</u>		<u>18</u>		<u>16</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Physics 41	4	Physics 42	4	Physics 43	4
Biology 51	5	Chemistry 52	5	Amer. Institutions	3
Amer. Institutions	3	Amer. Institutions	3	Foreign Lang.	5
Foreign Lang.	5	Foreign Lang.	5	Elective	2
	<u>17</u>		<u>17</u>	Speech 13	2
					<u>16</u>

MUSIC

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Music 1	3	Music 2	3	Music 3	3
Applied Music	4	Applied Music	4	Applied Music	4
Social Science	3	Social Science	3	Social Science	3
Physical Education	1	Physical Education	1	Physical Education	1
Music 10	2	Music 20	2	Music 30	2
Ensemble	$\frac{1}{2}$	Ensemble	$\frac{1}{2}$	Ensemble	$\frac{1}{2}$
	<u>16$\frac{1}{2}$</u>		<u>16$\frac{1}{2}$</u>		<u>16$\frac{1}{2}$</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Music 51	3	Music 52	3	Music 53	3
Applied Music	4	Applied Music	4	Applied Music	4
Ensemble	1	Ensemble	1	Ensemble	1
Amer. Institutions	2	Amer. Institutions	3	Amer. Institutions	3
Elective	2	Elective	2	Elective	2
	<u>18</u>		<u>18</u>		<u>16</u>

ONE YEAR NURSING CURRICULUM

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Biology 1	3	Biology 2	3	Biology 3	3
Home Economics or Literature	2	Psychology 52	3	Psychology 53	3
Psychology 51	3	Literature 42	2	Literature 43	2
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Physical Education	1	Physical Education	1	Physical Education	1
	<u>16</u>		<u>16</u>		<u>16</u>

PRE-OPTOMETRY

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Mathematics 1	4	Mathematics 2	3	Mathematics 3	3
Biology 1	3	Biology 2	3	Biology 3	3
Chemistry 1	4	Chemistry 2	4	Chemistry 3	4
Physical Education	1	Physical Education	1	Elective	3
Elective	1	Elective	2	Physical Education	1
	<u>16</u>		<u>16</u>		<u>17</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Political Sci. 1	3	Political Sci. 2	3	Political Sci. 3	3
Biology 51	3	Physius 42	4	Physius 43	4
Physius 41	4	Physical Education	1	Biology 53	5
Physical Education	1	Speech 1	3	Physical Education	1
	<u>16</u>	Elective	2		<u>16</u>
			<u>16</u>		

PHYSICAL EDUCATION

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
English 1	3	English 2	3	English 3	3
Home Econ. 21	2	Speech 12	2	Elective	2
Mathematics 1	4	Biology 31	5	Biology 32	5
Social Science 1	3	Social Science 2	3	Social Science 3	3
Physical Education	1	Physical Education	1	Physical Education	1
Speech 1	3	English 21	2	Speech 13	2
	<u>16</u>		<u>16</u>		<u>16</u>

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Psychology 51	3	Psychology 52	3	Psychology 53	3
Biology 51	5	Biology 52	3	Education 53	3
Education 51	3	Amer. Institutions	3	Amer. Institutions	3
Amer. Institutions	3	Sociology 62	2	Sociology 63	2
Physical Ed. 11	1	Physical Education	1	Physical Education	1
Physical Education	1	Elective	3	Elective	3
	<u>16</u>	Physical Ed. 12	1	Physical Ed. 13	1
			<u>16</u>		<u>16</u>

SECRETARIAL SCIENCE

FIRST YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 1	3	Elective	3	Elective	3
Business 11	3	Business 12	3	Business 13	3
Sec. Science 1	2	Sec. Science 2	2	Sec. Science 11	2
Sec. Science 21	4	Sec. Science 22	4	Sec. Science 23	4
Science 1 or Social Science	3	Science 2 or Social Science	3	Science 3 or Social Science	3
Physical Education	1	Physical Education	1	Physical Education	1
	16		16		16

SECOND YEAR

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Amer. Institutions	3	Amer. Institutions	3	Amer. Institutions	3
Business 41	3	Business 52	3	Accounting 13	3
Business 21	1	Business 22	1	Elective	7
Sec. Science 31	4	Sec. Science 12	2	Sec. Science 33	3
Elective	4	Elective	7		
	16		16		16

ONE YEAR STENOGRAPHY

Fall Quarter	Hours	Winter Quarter	Hours	Spring Quarter	Hours
Business 11	2	Business 12	3	Business 13	3
Business 2	2	Business 52	3	Accounting 13	3
Sec. Science 11	2	Sec. Science 12	2	Sec. Science 33	3
Sec. Science 23	4	Sec. Science 31	4	Sec. Science 32	4
Elective	3	Elective	4	Elective	3
	16		16		16

COURSES OF INSTRUCTION

The courses offered at Mesa College are grouped in fourteen 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 52 is a course number and Fruit Production is the corresponding course title.

In general, the courses numbered from 1 to 50 are designed for freshman 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. FWS means fall, winter, spring.

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

01. AGRICULTURAL PROFESSION. F. no credit.

Required of all freshmen who will major in agriculture. A survey of the various fields of study. Guidance in choosing major and minor fields of study. The opportunities as well as responsibilities associated with positions in agriculture when operating one's own business as well as when employed in one of the professions.

1. INTRODUCTORY ANIMAL HUSBANDRY. F. 5 hours.

A study designed to furnish a general knowledge of the important principles of the livestock industry as it pertains to agriculture. Selections and evaluation of beef cattle, dairy cattle, sheep, swine, and horses on a purebred and market basis are carried out. Emphasis is placed on types, breeds, markets, and market classification. Three lectures and two laboratory periods per week.

2. RANGE LIVESTOCK PRODUCTION. W. 3 hours.

A study of the production of beef cattle and sheep under range conditions. Consideration is given to the management of livestock on summer and winter ranges as well as winter feeding. The different phases of management of the purebred and grade herds are treated to acquaint the student with the various breeds and give him a knowledge of breeding, judging, and management. Two class periods and one laboratory period per week.

3. LIVESTOCK JUDGING AND SELECTION. S. 2 hours.

A study of animal form and its relation to the function of the individual. Emphasis is placed on the evaluation of live animals in terms of their probable value for producing the product for which they are intended. Market and breeding classes of livestock will be judged. Prerequisite: Agriculture 1. Two laboratory periods per week.

- 33. CROP PRODUCTION.** S. 5 hours.
A study of the principles of field crop production with special emphasis on cultural practices for crops grown in the intermountain area. Pre-requisite: 10 hours botany. Four hours lecture and discussion and two hours laboratory per week.
- 51. GENERAL HORTICULTURE.** F. 5 hours
A general course covering the principles underlying the propagation, culture, improvement, and marketing of horticultural crops. Prerequisite: 5 hours botany. Four class periods and one laboratory period per week.
- 52. FRUIT PRODUCTION.** W. 5 hours.
A study of tree and small fruit production. Emphasis is given to selection of site, layout, planting, pollination, pruning, fruit thinning, soil management, fertilization, irrigation, and general orchard management. Prerequisite: Agriculture 51. Four class periods and one laboratory period per week.
- 53. GENERAL POULTRY HUSBANDRY.** S. 5 hours.
A study of breeds, judging, incubation, brooding, feeding, culling, and marketing. Designed to meet the needs of students wishing a general knowledge of the poultry industry and the problems of production. Pre-requisite, zoology, 5 hours. Four class periods and one laboratory period per week.
- 61. FORAGE CROPS.** F. 4 hours.
A study of the production and preservation as hay or silage of the principal forage crops and cultivated grasses. Special attention is given to the production and maintenance of farm pastures. Prerequisite: Agriculture 23.
- 62. GENERAL DAIRY HUSBANDRY.** W. 3 hours.
A general course in dairying. History and present status of the dairy industry; starting dairy herds; breeds of dairy cattle; cow testing associations; club work; study of herd records; calf feeding; general principles of feeding, management and housing of dairy cattle. Prerequisite: Agriculture 1. Open to sophomore students. Two class periods and one laboratory period per week.
- 72. FARM MANAGEMENT.** W. 4 hours.
A study of the principles underlying the organization, management, and financial success of farms and ranches. Consideration will be given to types of farming, size of business, combination of enterprises, rates of production, labor, and equipment efficiency.

AMERICAN INSTITUTIONS

The requirement in American Institutions may be met by taking American Government, American History or American Literature.

ART

The Department of Art functions to enable the student to gain an understanding and appreciation of art principles in graphic and plastic art forms through numerous experiences gained in the basic courses offered. Development of creative ability is stressed in

the use of various media and techniques. The art department also serves to promote artistic and cultural growth in the community by participating in art activities and by sponsoring frequent exhibits of student work and traveling exhibits in the college art gallery.

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

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

A basic course emphasizing art principles in outdoor sketching, drawing of still-life groups, and work from casts. Individuality is encouraged and interpretations expressed in various media, such as pencil, charcoal, pen and ink, colored chalks, lithograph and conte crayons. Part of the laboratory work is done outdoors where the student is trained to see, comprehend, and express graphically studies in compositional arrangements. Analytical observations are made from contemporary materials and reproductions. Four laboratory hours per week.

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

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

41. ART APPRECIATION. S. 2 hours.

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

61, 62, 63. ADVANCED COLOR AND DESIGN. FWS. 3 hours.

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

71, 72. OIL PAINTING AND COMPOSITION. FW. 3 hours.

Composition is stressed in creative problems, understanding of light and dark massing gained through preparatory designs for paintings, oil painting materials studied and paintings executed in full color. Six laboratory hours per week. Prerequisites: Art 1, 2, 3, and Art 11, 12, 13.

73. ELEMENTARY SCHOOL ART. S. 3 hours.

This course is designed especially for those students who plan to teach upon completion of their work in the local college. Methods

of teaching art at elementary levels are stressed. Students work in various media in execution of problems pertaining to art in the grades. Recommended to all Education majors.

31, 32, 33. ADVERTISING ART. FWS. 2 hours.

Layouts are made and drawings designed to express definite techniques in advertising production. Pen and ink, scratchboard, craftint, tempera and wash techniques are executed in advertising problems. Reproduction processes are discussed and newspaper and magazine reproductions analyzed. Lettering and poster work are stressed in the first quarter. Four laboratory hours per week. Prerequisites: Art 1, 2, 3 and Art 11, 12, 13.

BIOLOGY

1, 2, 3. GENERAL BIOLOGY. FW. 3 hours.

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

21, 22. GENERAL BOTANY. FW. 5 hours.

The structure and function of the higher plants, including a study of roots, stems, leaves, flowers, and seeds are dealt with during Fall Quarter. Study of the lower plant forms including the algae, fungi, mosses, and ferns during the Winter Quarter. Three lectures and two laboratory periods each week. A course for agriculture, veterinary, forestry, pre-dental, home economics and botany majors.

31, 32. GENERAL ZOOLOGY. WS. 5 hours.

A detailed study of the fundamental principles of the science of animal biology, and a survey of all of the animal phyla with attention given to both structure and function. Three lectures and two laboratory periods each week. Full credit will not be given to those who have credit in general biology. A course for agriculture, pre-medical, veterinary, pre-dental, home economics, and zoology majors.

41. HYGIENE. F. 3 hours.

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

- 51. COMPARATIVE VERTEBRATE ANATOMY.** F. 5 hours.
A detailed comparative study of the organ systems of the vertebrate animals. The course includes laboratory dissection of representative animals including the salamander, the pigeon, and the cat. Three laboratory periods and two lecture periods each week. Recommended for all pre-medical, physical education and biology majors. Prerequisite: 9 hours biology, botany, or zoology.
- 52. PRINCIPLES OF HEREDITY.** W. 3 hours.
Facts and principles of heredity as developed from the study of plants and animals. Human inheritance; genius, mental defects, individual differences. Open to all Sophomores.
- 53. GENERAL BACTERIOLOGY.** S. 5 hours.
An introductory course consisting of lectures and laboratory work on identification, cultivation, and isolation of molds, yeasts and bacteria. Emphasis upon non-pathogenic forms. Pre-requisite: 9 hours biology, botany, or zoology.

COMMERCE

ACCOUNTING

- 1, 2. INTRODUCTORY ACCOUNTING.** FW. 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.
- 13. SECRETARIAL ACCOUNTING.** F or S. 3 hours.
For those who plan to go into secretarial office work and may be required to keep the accounts of a dentist, lawyer, or other professional individual, or for those who will need to keep financial records for themselves or others. It is a terminal course and is not required for those who plan to take Principles of Accounting. Prerequisite: Accounting 2, or equivalent.
- 51, 52, 53. 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.

GENERAL BUSINESS

- 1. INTRODUCTION TO BUSINESS.** F. 3 hours.
An introductory course planned to acquaint the student with different phases of American business. This is a general survey course, intended to give a better understanding of the agencies, methods, functions, and practices of modern business procedure. Special attention is given to small businesses, the sole proprietorship and partnership.
- 2. OFFICE PROCEDURES.** FS. 2 hours.
Particular emphasis is given to such topics as general office knowledge, business ethics and dress, and personal characteristics of an office worker. Required of one-year business students.
- 3. INCOME TAX.** FW. 2 hours.
The tax law applied to individuals and small businesses.
- 11, 12. MODERN BUSINESS ENGLISH. I. II.** FW. 3 hours.
This course, phrased in business vocabulary, is a thorough review of grammatical principles as used in business correspondence. Spelling and punctuation are stressed.
- 13. BUSINESS CORRESPONDENCE.** WS. 3 hours.
The students in this class compose business letters of different kinds, (such as sales, adjustment, collection, etc.) and type these in mailable form. Prerequisite: S.S. 11 or enrollment in S.S. 11.
- 21, 22, 23. CALCULATING MACHINES.** FWS. 1 hour.
Fundamental skills are developed in such machines as the ten-key adding machine, key-driven calculators, electric and crank-driven calculators. A student earns one hour for each machine completed.
- 31. BOOKKEEPING POSTING MACHINE.** FWS. 1 hour.
Prerequisite: Accounting I or equivalent.
- 32. COMPUTING MACHINES SURVEY.** FWS. 1 hour.
- 41. BUSINESS MATHEMATICS.** FS. 4 hours.
This course provides a review of the fundamentals of the various types of mathematical problems occurring in present day business. The course is required of those majoring in business.
- 42. INTRODUCTION TO BUSINESS MANAGEMENT.** 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 business, income tax, withholding tax, social security, etc. It is especially designed for those who will go into business alone or on a partnership basis.
- 51. FILING.** F. 3 hours.
Alphabetic, numeric, geographic, subject, and soundex systems of filing are studied. Practice is given in the finding of correspondence as well as in the filing of material.
- 52. BUSINESS LAW I.** W. 3 hours.
A study of: Contracts in general; Relation of Principal and Agent; Employer and Employee; Negotiable Instruments; Principal and Surety; Insurer and Insured; Bailor and Bailee.

- 53. BUSINESS LAW II.** S. 3 hours.
Contracts continued; Carriers and Shippers; Vendor and Vendee; Partnerships; Corporations; Property; Deeds of Conveyance; Mortgages; Landlord and Tenant; Torts; Business Crimes; Bankruptcy. Prerequisite: Business Law I.
- 81, 82, 83. ADVERTISING ART.** FWS. 2 hours.
Layouts are made and drawings designed to express definite techniques in advertising production. Pen and ink, scratchboard, craftist, tempera and wash techniques are executed in advertising problems. Reproduction processes are discussed and newspaper and magazine reproductions analyzed. Four laboratory hours per week.

RELATED COURSES

- Econ. 43. CONSUMER ECONOMICS.**
Described on page 58.
- Econ. 51, 52, 53. PRINCIPLES OF ECONOMICS.**
Described on page 59.
- Geog. 3. ECONOMIC GEOGRAPHY.**
Described on page 59.

SECRETARIAL SCIENCE

- 1, 2. BEGINNING TYPEWRITING.** FWS. 2 hours.
A beginning course in which the keyboard and fundamentals of typewriting are taught.
- 10. REVIEW TYPEWRITING.** F. 2 hours terminal.
A course for students with typewriting experience and credit in 2, or high school typewriting, but who wish to review before beginning Secretarial Science 11. Credit toward a degree will not be given for this course.
- 11. INTERMEDIATE TYPEWRITING.** FWS. 2 hours.
Review of letter styles, forms of punctuation, and other fundamentals. Intensive drill on letter placement. Development of a speed required in the average office. Prerequisite: SS. 2 or equivalent.
- 12. ADVANCED TYPEWRITING.** WS. 2 hours.
Study of tabulations, telegrams, legal forms, and mimeograph work. Development of speed on varied material, rather than straight-copy work. Prerequisite: S. S. 11.
- 13. DICTAPHONE.** W. 1 hour.
Instruction on the complete Dictaphone—transcriber, shaver, and dictation machine—is given. Office proficiency on the transcriber is developed. May be substituted for one hour of machines. Prerequisite: S.S. 11 or enrollment in S.S. 11.
- 21, 22. SHORTHAND THEORY.** FWS. 4 hours.
The study of the principles of shorthand through reading and writing. Some practice dictation is given in the second quarter.

- 23. BEGINNING DICTATION.** FWS. 4 hours.
Review of the principles of shorthand. Dictation is given at the rate of 80 words. Machine transcription, with special attention to letter arrangement. Prerequisites: S.S. 22 or equivalent, S.S. 11 or enrollment in S.S. 11.
- 31. INTERMEDIATE DICTATION AND TRANSCRIPTION.** FWS. 4 hours.
A dictation speed of 90-100 words a minute is attained, with a mailable transcript. Prerequisite: S.S. 23 or equivalent.
- 32. ADVANCED DICTATION AND TRANSCRIPTION.** S. 4 hours.
The study of shorthand is applied to the terminology of various vocations. Dictation at the rate of 110-120 words. Prerequisite: S.S. 31.
- 33. SECRETARIAL PRACTICE.** S. 3 hours.
The application of typing and shorthand to office situations. Prerequisite: S.S. 23 or enrollment in S.S. 23.

ENGLISH

ENGLISH LANGUAGE

- 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.
- 1, 2, 3. ENGLISH COMPOSITION.** 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 Freshmen except commerce majors.
- 21. WORD STUDY.** F, W, or S. 2 hours.
A course designed to increase the active vocabulary of the student and to give him mastery of words through correlating their spelling, pronunciation, meaning and usage.
- 31, 32, 33. SURVEY OF JOURNALISM.** FWS. 2-3 hours.
This course is a study of the various mediums of information-- newspaper, magazine, and radio, with stress upon the newspaper. Getting and writing newspaper stories is emphasized. Stories are written, copy-read and proof-read for the Criterion, official college newspaper. One hour of credit may be received in this course for active participation on the Criterion staff.
- 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**31, 32, 33. WORLD LITERATURE. FWS. 3 hours.**

The subject matter of this course, the masterpieces of world literature in translation, acquaints the student with the thinking which has contributed to the cultures of Europe and Asia.

41. FICTION. F. 2 hours.

This 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.

42. POETRY. W. 2 hours.

This course is planned to develop the student's understanding and appreciation of English and American poetry.

43. DRAMA. S. 2 hours.

This course requires the reading of recent English, American, and European plays and the writing of critical papers on the drama.

44. ESSAY AND BIOGRAPHY. S. 3 hours.

This course will give an introduction to the literary essay and its place in literature. The works of Emerson, Arnold and others will be considered. Both biography and autobiography will be discussed with emphasis upon the period represented, as well as upon the life of the individual. Outside readings will be required.

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

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

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. The development of logical, reflective thinking is stressed as the basis for conversational and platform speech in general. Emphasis is placed on the proper use of voice in speech, diction, platform behavior, speech organization and delivery. Students are given numerous opportunities to speak and are led to develop standards of criticism.

11, 12. FUNDAMENTALS OF 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 effective speech and voice as related to personality development. The work of the first quarter is devoted to the development of the principles of effective speaking and practice in the composition and delivery of short speeches. The second quarter is devoted to intensive work in analysis of material and sources, and in preparation of speeches for presentation before audiences. Two quarters required for credit.

13. ORAL INTERPRETATION.**S. 2 hours.**

This course is devoted to a study of the backgrounds and materials for expressive reading of prose, poetry and drama, with practice in platform reading and in radio speech. Diction and quality of tone receive especial attention. Prerequisite: Speech 1, or 12.

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

The main purpose of this three-quarter 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 solution.

51, 52. DISCUSSION AND DEBATE.**W. 2 hours.**

The purpose of this course is to train students in the intelligent and effective use of discussion and debate as essential tools of our democratic society. Opportunity is provided for participation in the organization and conduct of group discussions of various types including the forum, the panel, the symposium and the debate. Prerequisite: Sophomore standing.

FOREIGN LANGUAGE

FRENCH

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

An introduction to French through a conversational approach, developing an ability to read French in the short story, newspaper, and periodical. Careful attention is given to pronunciation and to the fundamentals needed for steady progress. Records are used for ear-training in French intonation of speech.

51, 52, 53. 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.

GERMAN

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

This course consists in speaking and writing simple German, and in reading German of medium difficulty. Intensive practice in reading German and in studying the make-up of the German sentence prepares one to take up the study of scientific German often required for a degree in science.

SPANISH

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

Emphasis is given to the oral approach in learning to understand and speak Spanish of medium difficulty. The pronunciation and culture of Spanish America are used as the basis for this study. Intensive reading in text is supplemented by reading of short stories and newspapers. Records are used in developing ability to understand spoken Spanish.

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

This course is designed to acquaint the student with representative literary works of Spain and South America. Considerable time is given to the reading of current Spanish periodicals and to the practice of spoken and written Spanish. Prerequisite: two years high school Spanish or one year college Spanish.

61, 62, 63. SPANISH CONVERSATION. FWS. 3 hours.

HOME ECONOMICS

- 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.
- 2. TEXTILES.** W. 5 hours.
Study of textile fabrics and fibers with emphasis on selection, care and wearing qualities of clothing. Tests for identification of textiles.
- 3. SELECTION AND CONSTRUCTION OF CLOTHING.** S. 5 hours.
Fundamental experiences in selecting, purchasing, and constructing clothing to meet individual needs.
- 21. ELEMENTARY FOODS.** F. 2 hours.
A course designed primarily for non-majors in Home Economics. Open to men and women. No prerequisites.
- 41. INDIVIDUALIZED CLOTHING.** F. 3 hours.
Selection, care, and construction of clothing to meet individual needs.
- 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.
- 43. COOKERY AND TABLE SERVICE.** S. 3 hours.
Principles and practice of preparation of foods with emphasis on nutrition and the planning and serving of family meals.
- 51. FOOD CONSERVATION AND PRESERVATION.** F. 3 hours.
Actual preservation of foods by canning, drying, freezing, and home storage. Nutritive value of foods for feeding the family. Prerequisite for Home Economics majors: Chemistry 21, 22.
- 52. FOOD 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.
- 53. PREPARATION AND SERVING OF MEALS.** S. 3 hours.
Planning, preparing and serving family meals and special occasion menus.
- 63. ADVANCED CLOTHING.** S. 2 hours.

MATHEMATICS AND ENGINEERING

GENERAL MATHEMATICS

- 01. PRACTICAL MATHEMATICS.** F. 4 hours terminal.
A course designed to develop a sound background in the solution of practical problems. It is intended primarily for students who wish to review basic concepts or desire a fundamental knowledge of mathematics desirable for general education. It may be used to remove a deficiency in high school mathematics but does not satisfy any degree requirements. No prerequisites.
- 1. COLLEGE ALGEBRA.** F, W, or S. 4 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; compound interest and annuities. Prerequisite: one year high school algebra.
- 2. PLANE TRIGONOMETRY.** W. 3 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.
- 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.

ENGINEERING MATHEMATICS

- 03. SOLID GEOMETRY.** FS. 3 hours terminal credit.
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.
- 11. COLLEGE ALGEBRA.** F, W, or S. 5 hours.
Quadratics; ratio, proportion, variation, binomial theorem, progressions; function concept; mathematical induction; inequalities; complex numbers; theory of equations; logarithms; mathematics of investment; permutations and combinations; probability; determinants; partial fractions; infinite series; method of least squares and related topics. Prerequisite: Advanced high school algebra and plane geometry.
- 12. PLANE AND SPHERICAL TRIGONOMETRY.** F, 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.

13. PLANE AND SOLID ANALYTIC GEOMETRY.

F. 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. Prerequisite: Math 12.

21, 22, 23. ENGINEERING PROBLEMS.

FWS. 1 hour.

Supervised work emphasizing proper methods of work and correct form, and introducing some of the elements of various fields of engineering. Theory and use of the slide rule. Open to engineering students only.

51, 52, 53. DIFFERENTIAL AND INTEGRAL CALCULUS.

FWS. 5 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. Ordinary and partial differential equations with emphasis on engineering and physical applications. Prerequisites: Math 13 or consent of the instructor.

MECHANICAL DRAWING**1. 3. ENGINEERING DRAWING.**

FS. 3 hours.

Use of drawing instruments, lettering, principles of orthographic projections, dimensions, reading drawing, auxiliary and sectional views are stressed in Course 1. Isometric, dimetric, oblique, cabinet drawing, linear perspective, working drawings, development of surfaces, tracing and blue printing are included in Course 3. Prerequisites for course 3: Engineering Drawing 1 and 2. Solid geometry should precede or accompany course 1.

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. Prerequisite: Engineering Drawing 1, and Solid Geometry.

MUSIC

THEORY AND HISTORY

1, 2, 3. ELEMENTARY THEORY. FWS. 3 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. Simple four-part harmony from melody and figured bass is introduced.

11. MUSIC FUNDAMENTALS. F. 1 hour.

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

12, 13. MUSIC EDUCATION METHODS. WS. 1 hour.

Reading and interpretation of songs and class exercises in elementary sight-singing and ear-training. Methods of teaching rote songs. A study of the child's voice. Treatment of monotonies. Discussion and demonstration of the instruments of the orchestra and the acoustical principals involved. Prerequisite: Music 11 or equivalent.

10, 20, 30. HISTORY OF MUSIC. FWS. 2 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 any student, any quarter.

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.

ENSEMBLE MUSIC

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

21, 22, 23. COLLEGE CHOIR. FWS. ½ hour.

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.

31, 32, 33. COLLEGE BAND. FWS. ½ hour.

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).

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

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.

71, 72, 73. INSTRUMENTAL ENSEMBLE. FWS. ½ 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.

81, 82, 83. VOCAL ENSEMBLE. FWS. ½ 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.

91, 92, 93. PIANO ACCOMPANYING. FWS. ½ hour.

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

APPLIED MUSIC

Individual music lessons are given in piano, voice and the instruments of the band and orchestra. 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 students needs and level of attainment.

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

1, 5, 6; 54, 55, 56. VOICE. FWS. 1 or 2 hours.**14, 15, 16; 64, 65, 66. PIANO. FWS. 1, 2 or 4 hours.****24, 25, 26; 74, 75, 76. VIOLIN. FWS. 1, 2 or 4 hours.****34, 35, 36; 84, 85, 86. BRASS INSTRUMENTS. FWS. 1, 2 or 4 hours.****44, 45, 46; 94, 95, 96. WOODWIND INSTRUMENTS. FWS. 1, 2 or 4 hours.**

PHYSICAL EDUCATION

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

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, 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 encouraged to take one team sport, one individual sport and one rhythmic course during their two years at Mesa.

PEW 1 & 51. Fall quarter includes such activities as tennis, soccer, volleyball, badminton, archery and ping pong.

PEW 2 & 52. Winter quarter includes such activities as basketball, volleyball, plays and games for elementary majors, square and folk dancing, badminton for a limited group, and bowling, gymnastics and postural work are offered according to the preference of a particular group.

PEW 3 & 53. Spring quarter includes such activities as softball, badminton, archery, and tennis.

PE 11, 12, 13. PHYSICAL EDUCATION LABORATORY. FWS. 1 hour.

Required of all men students planning to major or minor in Physical Education. Consists of instruction and practice in the fundamental skills of the more important athletic activities. Considers the activities in the season in which each is most popular.

PE 22. SOCIAL DANCING. W. 2 hours.

PHYSICAL 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 hours.
Lectures and laboratory. Fundamental principles and applications of general inorganic chemistry; atomic structure; periodic table; gas laws; non-metallic and metallic elements and their principal compounds; a brief introduction to qualitative analysis. Designed for chemistry, medicine, engineering, or other scientific majors.
- 21, 22. **INORGANIC CHEMISTRY.** WS. 5 hours.
Lectures and laboratory. Fundamental principles of general inorganic chemistry and applications in science and society; atomic structure; periodic tables; gas laws; non-metallic elements and their principal compounds. Designed for students who are planning to major in Homemaking, Agriculture or Veterinary Medicine.
- 51, 52. **ORGANIC CHEMISTRY.** WS. 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 2 or 22.
61. **QUALITATIVE ANALYSIS.** F. 4-5 hours.
The separation and identification of cations and anions, with emphasis on applications of ionization and solubility product constants and the laws of chemical equilibrium. Prerequisite: Chemistry 2 or 22.
62. **QUANTITATIVE ANALYSIS.** W. 5 hours.
Elementary gravimetric and volumetric analysis. Prerequisites: Chemistry 3 and Trigonometry.
63. **QUANTITATIVE ANALYSIS.** S. 3 hours.
A continuation of Chemistry 62, with special attention to food and alloy analysis. Required of Chemistry majors. Prerequisite: Chemistry 62.

GEOLOGY

- 1, 2. **GEOLOGIC PROCESSES.** FW. 5 hours.
The nature of geologic agencies, erosional and diathrophic processes, map reading. 3 hour class, two 2-hour laboratory periods per week.
3. **INTRODUCTORY HISTORICAL GEOLOGY.** S. 5 hours.
The history of the earth, theories of origin, the geologic record, evolution of life, geologic maps and sections. 3 hour class, two 2-hour laboratory periods per week.

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 prin-

ciples and methods of physics and their application to life in modern times. The human body and its physical environment constitute the central theme.

41, 42, 43. GENERAL PHYSICS. FWS, 4 hours.

A course designed primarily for students taking pre-medicine, pre-dentistry, or related fields. The topics covered with a minimum of stress on mathematics are: Fall, Mechanics; Winter, Heat, Electricity and Magnetism; Spring, Light and Sound. Application of physics to elementary medical usage and to everyday living is emphasized. Prerequisite: Trigonometry.

51, 52, 53. ENGINEERING 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 electricity and magnetism are presented. The Spring Quarter is used for the two remaining topics, sound and light. Many experiments are performed and several field trips are taken to make the students aware of practical applications. One three hour laboratory period per week is required of each student for each quarter. Prerequisite: Physics I or one unit in High School Physics. Note: Calculus must be taken in parallel with this course.

63. STATICS. S, 3 hours.

Force systems, equilibrium, friction, centroids, moments of inertia, elementary analysis of framed structures. Prerequisites: Math. 52, Physics 52.

SOCIAL SCIENCE

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

A Freshman course designed to introduce the student to the field of the social sciences and acquaint 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. A freshman course, for students not taking other social science courses.

ECONOMICS

43. CONSUMER ECONOMICS. S, 3 hours.

A course designed for all college students in which the practical aspects of such consumer problems as taxes, insurance, personal and family financing, frauds, home purchasing, and the effect of changes in the business cycle on wages. Consideration will be given to the buying and selling practices of business firms as related to consumers; financial problems of consumers; personal accounting and budgeting; and sources of information for consumer goods.

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. Not open to freshmen.

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.

52. ELEMENTARY METHODS. F. 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.

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.

71. STUDENT TEACHING. W. 6 hours.

This course includes both theory and practice of instruction. Student teachers must teach five 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. Prerequisite: Educa. 52.

GEOGRAPHY**1, 2. HUMAN GEOGRAPHY. FW. 3 hours.**

The habitats of man, human ecological factors. Class, laboratory and field work as arranged.

3. ECONOMIC GEOGRAPHY. S. 3 hours.

The essential elements of commercial and industrial geography. Class, laboratory work, and field trips.

53. CONSERVATION OF NATURAL RESOURCES. S. 3 hours.

The conservation problem, soil resources, forests, water, wildlife, human conservation. Class and field work.

HISTORY

11, 12, 13. WORLD CIVILIZATIONS.

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 political, social, economic and cultural developments in the world from ancient time to the present with particular emphasis being given to the development of western civilization. Class discussions, reports, lectures, text book and assigned readings are used to accomplish the purposes of the course.

41, 42, 43. CURRENT AFFAIRS.

FWS. 2 hours.

The purpose of this course is to acquaint the student with the problems of the day. In addition to studying week-to-week domestic and international happenings, 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.

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, 3. 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.

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

- 74. EDUCATIONAL PSYCHOLOGY. S. 3 hours.**
 The psychological principles of experiments underlying the social, emotional and intellectual development of the child as these relate to educational theory and practice. It is recommended that those students who are primarily interested in education take this course as a continuation of Psychology 51 and 52, which is prerequisite.

SOCIOLOGY

- 61, 62. GENERAL SOCIOLOGY. FW. 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.
- 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.
- 44. MARRIAGE AND THE FAMILY. W. 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.

TRADES AND INDUSTRIES

TERMINAL CREDIT COURSES

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. 3-12 hours.**
 Automobile lubrication, chassis assembly and repair, tires, brakes, battery, engine, including carburetion 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. 3-12 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. 3-12 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.

SUMMER QUARTER

1950

The summer quarter will begin June 12 and end August 18, 1950. 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 credit may be earned during the quarter. The maximum number of courses to be taken at one time is three.

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

Instruction will be given in education and psychology, and in other courses according to demand.

FEES

Matriculation	\$ 5.00
Each five weeks' course	10.00
Each ten weeks' course	15.00
Maximum fees for summer quarter courses	50.00

TUITION

Mesa County residents	no charge
Non-residents	
Under ten hours	\$15.00
Ten hours or more	25.00

