Mesa College

CATALOG

1948-1949

GRAND JUNCTION, COLORADO

PLEASE BRING THIS CATALOG WITH YOU WHEN YOU COME TO REGISTER
foreword

MESA COLLEGE LOOKS AHEAD

The first major improvement on the campus since the present building was erected, was the occupation of the twenty-two dwelling units by married veterans and their families. Following, a cafeteria and a classroom building were built during the summer to care more adequately for the student body. These two buildings are completely equipped and have been in use since the beginning of the Fall Quarter, 1947.

In addition, a shop building has been constructed which serves the needs of veterans who desire such vocational courses as auto mechanics, electricity, radio, sheet metal, and similar work. These instructional facilities have been provided by the Federal Works Agency and are a part of the vast national program for the provision of facilities for veterans' education.

A women's dormitory to house seventy students is under construction and will be ready for occupancy in September.

These material acquisitions have been accompanied by an enlargement of the faculty and the addition of courses which make Mesa College, as never before, the intellectual, artistic, musical, and educational center for the entire western third of Colorado. It is the ambition of the college to participate in and to stimulate all types of advanced and continuation education for the youth of this area. The college hopes to assist in furthering cultural standards to a greater degree than ever before.

Grand Junction is geographically and industrially ideally located to fulfill these ambitions and hopes. Transcontinental airlines make daily stops and north and south airlines also serve the city. New schools, new business blocks, new theatres, new municipal projects, and a rapidly expanding population—all point in the direction of a vastly increased importance of Mesa College in the State's educational life.

More than all however, is the past record of the college in providing a suitable junior college education to high school graduates. More than 5, 000 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. Today, as in the past, Mesa College deems it a privilege to assist in the education "of all the children of all the people."
TABLE OF CONTENTS

CALENDAR ........................................................................ 5
MESA COLLEGE: A Community Institution ..................... 6
MESA COLLEGE PERSONNEL ...................................... 7
ADVANTAGES OF A JUNIOR COLLEGE ......................... 10
GENERAL INFORMATION ............................................. 11
History, Building, Location ........................................... 11
Housing ........................................................................ 11
Student Activities ....................................................... 12
College-Community Relations ...................................... 14
Expenses at Mesa College ............................................. 14
Fees: Payment of, Refund of ......................................... 15
Scholarship, Loans, Employment ................................. 16
Organization for Instruction ......................................... 17
School of Arts and Sciences ......................................... 17
School of Commerce ................................................... 17
Courses for Adults ....................................................... 16

ACADEMIC INFORMATION ........................................... 19
Admission: Freshman, Sophomore, Veterans ................. 19
Special Students ......................................................... 20
Entrance Tests ............................................................ 20
Proficiency Examinations ............................................ 20
Departments of Instruction .......................................... 20
Courses of Study Requirements ................................. 20
Preparatory Courses for Freshmen ............................... 21
Registration: Time of, Steps in ..................................... 21
Removal of High School Deficiencies ........................... 22
Graduation Requirements ............................................ 22
Certificates, Diplomas, Degrees ................................. 22
Teaching Permit ......................................................... 23
Transfer of Credit ....................................................... 23

GENERAL REGULATIONS ........................................... 24
Late Registration ......................................................... 24
Change of Program ..................................................... 24
Attendance ............................................................... 24
Student Load and Limitation; Course Continuation .......... 25
Scholarship Standards ................................................. 25
Examinations ............................................................. 25
Course Reports .......................................................... 26
System of Grades ....................................................... 26
Conditions and Incompletes ......................................... 26
Withdrawal; Honorable Dismissal ................................. 26

TYPE CURRICULUM ..................................................... 27
Accounting ............................................................... 27
Agriculture .............................................................. 27
Art .......................................................................... 28
Business Administration ............................................ 28
Business Training, One Year ...................................... 25
Pre-Dentistry ............................................................. 29
Education ............................................................... 29
Engineering (Regular) ............................................... 32
Pre-Engineering ....................................................... 32
General Education .................................................... 38
TABLE OF CONTENTS

CALENDAR .................................................. 5
MESA COLLEGE: A Community Institution .................. 6
MESA COLLEGE PERSONNEL ................................ 7
ADVANTAGES OF A JUNIOR COLLEGE ....................... 10
GENERAL INFORMATION .................................... 11
History, Building, Location .................................. 11
Housing ..................................................... 11
Student Activities .......................................... 12
College-Community Relations ................................ 14
Expenses at Mesa College .................................... 14
Fees: Payment of, Refund of ................................ 15
Scholarship, Loans, Employment ............................. 16
Organization for Instruction .................................. 17
School of Arts and Sciences .................................. 17
School of Commerce ......................................... 17
Courses for Adults ........................................... 18

ACADEMIC INFORMATION ................................ 19
Admission: Freshman, Sophomore, Veterans .................. 19
Special Students ............................................. 20
Entrance Tests ................................................. 20
Proficiency Examinations ...................................... 21
Departments of Instruction .................................... 20
Courses of Study Requirements ............................... 20
Preparatory Courses for Freshmen ......................... 21
Registration: Time of, Steps in, ............................. 21
Removal of High School Deficiencies ....................... 22
Graduation Requirements ..................................... 22
Certificates, Diplomas, Degrees ............................. 22
Teaching Permit .............................................. 23
Transfer of Credit ............................................ 23

GENERAL REGULATIONS ................................ 24
Late Registration .............................................. 24
Change of Program .......................................... 24
Attendance .................................................. 24
Student Lead and Limitation: Course Continuation ....... 25
Scholarship Standards ....................................... 25
Examinations ................................................ 25
Course Reports .............................................. 26
System of Grades .......................................... 26
Conditions and Incompletes ................................. 26
Withdrawal, Honorable Dismissal ............................ 26

TYPE CURRICULUMS ...................................... 27
Accounting .................................................. 27
Agriculture .................................................. 27
Art ........................................................... 27
Business Administration ..................................... 27
Business Training, One Year ................................. 27
Pre-Dentistry ............................................... 27
Education ................................................... 27
Engineering (Regular) ....................................... 27
Pre-Engineering ............................................ 27
General Education ......................................... 27
TABLE OF CONTENTS

General Liberal Arts .................................. 33
Home Economics ...................................... 33
Homemaking .......................................... 34
Pre-Law ............................................. 34
Pre-Medical ......................................... 35
Music .................................................. 35
Nursing, One Year .................................. 35
Pre-Optometry ....................................... 36
Physical Education ................................... 36
Secretarial Science .................................. 37
Stenography, One Year .............................. 37
CLASS SCHEDULE 1948-1949 .......................... 37-39
COURSES OF INSTRUCTION ......................... 39
Agriculture ......................................... 39
Art ..................................................... 40
Biology .............................................. 41
Commerce .......................................... 42
Accounting .......................................... 42
General Business ................................... 42
Secretarial Science .................................. 43
Shorthand ........................................... 43
Typing ................................................ 44
English .............................................. 44
Language ............................................. 44
Literature .......................................... 45
Speech ............................................... 46
Foreign Language .................................... 47
Home Economics ..................................... 47
Mathematics and Engineering ....................... 48
General Mathematics ................................ 49
Engineering Mathematics ........................... 49
Mechanical Drawing ................................ 50
Aeronautics ......................................... 51
Music .................................................. 51
Physical Education and Hygiene ..................... 53
Physical Science ..................................... 53
Physical Science Survey ............................ 53
Chemistry .......................................... 54
Geology .............................................. 54
Physics .............................................. 55
Social Science ....................................... 55
Social Science Survey ............................... 55
Economics .......................................... 55
Education .......................................... 55
Geography .......................................... 56
History ............................................. 56
Political Science .................................... 57
Psychology ......................................... 57
Sociology .......................................... 57
Trades and Industry ................................ 58
Related Training .................................... 58
SUMMER QUARTER .................................... 59

GRAND JUNCTION, COLORADO

College Calendar . . .

SPRING QUARTER 1948.

March 30 ............................................. Registration
March 31 ............................................. Classes begin
June 4 .............................................. Final examinations begin
June 11 ............................................ Commencement

SUMMER QUARTER 1948.

June 14 .............................................. Classes begin
July 15 ............................................. First term ends
July 19 .............................................. Second term begins
August 20 ......................................... Summer Quarter ends

FALL QUARTER 1948.

September 1 ......................................... Credentials due
September 13-15 ................................... Faculty Workshop
September 16-17 ................................... Pre-registration, former students
September 20 ......................................... Registration begins
September 21-22 ................................... New student tests and counseling
September 23 ......................................... Classes begin
October 4 ............................................. Last day to change program
October 26-29 ....................................... C. E. A. meeting
November 23-26 .................................... Thanksgiving vacation
December 3-10 ....................................... Pre-registration for Winter Quarter
December 13 ......................................... Final examinations begin
December 15 ......................................... Fall Quarter ends

WINTER QUARTER 1949.

January 3 ............................................ Registration for new students
January 4 ............................................ Classes begin
January 17 ......................................... Last day to change programs
March 4-10 ......................................... Pre-registration for Spring Quarter
March 11 ............................................. Winter Quarter ends
March 18 ............................................. Winter Quarter ends

SPRING QUARTER 1949.

March 21 ............................................. Registration
March 22 ............................................. Classes begin
April 9 .............................................. Last day to change programs
April 15-16 .......................................... Easter vacation
May 30 ................................................ Decoration Day holiday
June 3 ................................................ Final examinations begin
June 10 ............................................. Commencement

SUMMER QUARTER 1949.

June 13 ............................................. Registration
June 14 ............................................. Classes begin
June 27 ............................................. Classes meet Saturday
July 4 ................................................ Holiday
July 15 ............................................. First term ends
July 13 ............................................. Second term begins
August 19 ......................................... Summer Quarter ends
## Table of Contents

<table>
<thead>
<tr>
<th>Course</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Liberal Arts</td>
<td>33</td>
</tr>
<tr>
<td>Home Economics</td>
<td>33</td>
</tr>
<tr>
<td>Homemaking</td>
<td>34</td>
</tr>
<tr>
<td>Pre-Law</td>
<td>34</td>
</tr>
<tr>
<td>Pre-Medical</td>
<td>35</td>
</tr>
<tr>
<td>Music</td>
<td>35</td>
</tr>
<tr>
<td>Nursing, One Year</td>
<td>35</td>
</tr>
<tr>
<td>Pre-Optometry</td>
<td>36</td>
</tr>
<tr>
<td>Physical Education</td>
<td>36</td>
</tr>
<tr>
<td>Secretarial Science</td>
<td>37</td>
</tr>
<tr>
<td>Stenography, One Year</td>
<td>37</td>
</tr>
<tr>
<td><strong>CLASS SCHEDULE 1948-1949</strong></td>
<td><strong>30-31</strong></td>
</tr>
<tr>
<td><strong>COURSES OF INSTRUCTION</strong></td>
<td><strong>36</strong></td>
</tr>
<tr>
<td>Agriculture</td>
<td>38</td>
</tr>
<tr>
<td>Art</td>
<td>39</td>
</tr>
<tr>
<td>Biology</td>
<td>41</td>
</tr>
<tr>
<td>Commerce</td>
<td>42</td>
</tr>
<tr>
<td>Accounting</td>
<td>42</td>
</tr>
<tr>
<td>General Business</td>
<td>42</td>
</tr>
<tr>
<td>Secretarial Science</td>
<td>43</td>
</tr>
<tr>
<td>shorthand</td>
<td>43</td>
</tr>
<tr>
<td>Typing</td>
<td>44</td>
</tr>
<tr>
<td>English</td>
<td>44</td>
</tr>
<tr>
<td>Language</td>
<td>44</td>
</tr>
<tr>
<td>Literature</td>
<td>45</td>
</tr>
<tr>
<td>Speech</td>
<td>46</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>47</td>
</tr>
<tr>
<td>Economics</td>
<td>47</td>
</tr>
<tr>
<td>Mathematics and Engineering</td>
<td>48</td>
</tr>
<tr>
<td>General Mathematics</td>
<td>48</td>
</tr>
<tr>
<td>Engineering Mathematics</td>
<td>49</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>50</td>
</tr>
<tr>
<td>Aeronautics</td>
<td>51</td>
</tr>
<tr>
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<td>51</td>
</tr>
<tr>
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<td>53</td>
</tr>
<tr>
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<td>53</td>
</tr>
<tr>
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<td>53</td>
</tr>
<tr>
<td>Chemistry</td>
<td>54</td>
</tr>
<tr>
<td>Geology</td>
<td>54</td>
</tr>
<tr>
<td>Physics</td>
<td>54</td>
</tr>
<tr>
<td>Social Science</td>
<td>55</td>
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<td>55</td>
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<td>55</td>
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<td>56</td>
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<tr>
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<td>56</td>
</tr>
<tr>
<td>Political Science</td>
<td>57</td>
</tr>
<tr>
<td>Psychology</td>
<td>57</td>
</tr>
<tr>
<td>Sociology</td>
<td>57</td>
</tr>
<tr>
<td>Trades and Industry</td>
<td>58</td>
</tr>
<tr>
<td>Related Training</td>
<td>58</td>
</tr>
<tr>
<td><strong>SUMMER QUARTER</strong></td>
<td>59</td>
</tr>
</tbody>
</table>

## Grand Junction, Colorado

### College Calendar

#### Spring Quarter 1948
- March 30: Registration
- March 31: Final examinations begin
- June 11: Commencement

#### Summer Quarter 1948
- June 14: Classes begin
- July 15: First term ends
- July 16: Second term begins
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- September 1-3: Credentials due
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- December 13: Final examinations begin
- December 17: Fall Quarter ends

#### Winter Quarter 1949
- January 3: Registration for new students
- January 4: Classes begin
- January 17: Last day to change programs
- March 11: Pre-registration for Spring Quarter
- March 18: Winter Quarter ends

#### Spring Quarter 1949
- March 21: Registration
- March 22: Classes begin
- April 8: Last day to change programs
- April 15-18: Easter vacation
- May 30: Decoration Day holiday
- June 3: Final examinations begin
- June 10: Commencement

#### Summer Quarter 1949
- June 13: Registration
- June 14: Classes begin
- June 27: Classes meet Saturday
- July 4: Holiday
- July 15: First term ends
- July 18: Second term begins
- August 19: 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 college 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.
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GRAND JUNCTION, COLORADO

PERSONNEL

MESA COLLEGE COMMITTEE
K. H. Pemmeth, President .................................................. Grand Junction
J. A. Edling, Secretary ....................................................... Appleton
M. L. Dilley, Treasurer ..................................................... Colifton
Mrs. Clyde Biggs ................................................................. Grand Junction
Garold McNew ................................................................. Collbran

OFFICERS OF ADMINISTRATION.

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

FACULTY

Robert A. Anderson ........................................................... Commerce
A. B., University of Colorado.
Graduate Study, University of Wyoming.

Raymond Barger ............................................................... Music
B. A., University of Nebraska.
B. M., University of Rochester.

Norris Bleyhl ................................................................. Librarian
A. B., University of Nebraska.
M. A., University of Minnesota.
B. S. in L. S., of Denver University.

Norma Carr ................................................................. Home Economics
B. S., Colorado State College of Agriculture and Mechanic Arts

Victor F. Charace ............................................................... Social Science
B. A., University of Iowa.
M. A., Colorado State College of Education.

Elizabeth H. Cramer ......................................................... Speech, Dramatics, English Language
A. B., University of Colorado.
M. A., University of Illinois.
   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.

May Belle Gordon .............................................................. Commerce
B. A., B. E., University of Colorado.
M. S., School of Commerce, University of Denver.

Kathleen Grover ............................................................. English
A. B., Kansas Wesleyan University.
M. A., University of Denver.
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree and Field</th>
<th>Institution and University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harry Hammer</td>
<td>Music</td>
<td>B. M. M., Syracuse University.</td>
</tr>
<tr>
<td>Esther Herr</td>
<td>English Language, Literature</td>
<td>A. B., State University of Iowa, A. M., Columbia University.</td>
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<td>Lela A. Johnson</td>
<td>Physical Education</td>
<td>A. B., Colorado State College of Education.</td>
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<tr>
<td>Lloyd Jones</td>
<td>Psychology, Physical Education</td>
<td>A. B., M. A., Western State College of Colorado.</td>
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<td>Marie Killheffer</td>
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<td>George Lake</td>
<td>English Language, Journalism</td>
<td>A. B., Michigan State Normal College, A. M., University of Michigan.</td>
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<td>Harlan Morton</td>
<td>Commerce</td>
<td>B. Ed., Western Illinois State Teachers College. Grad. Study, University of Iowa; University of Colorado.</td>
</tr>
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<td>Paul Phillips</td>
<td>Geology, Physical Science</td>
<td>B. S., University of Arkansas, M. S., University of Oklahoma.</td>
</tr>
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<td>Alvie Redden</td>
<td>Art</td>
<td>B. S., West Texas State College, M. F. A., In Progress, University of Colorado.</td>
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<td>Dallas Sutton</td>
<td>Biological Sciences</td>
<td>A. B., University of Colorado, M. S., Northwestern University, Adv. Grad. Study, University of California.</td>
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<td>Jay Tolman</td>
<td>Physical Education</td>
<td>B. S., Utah State Agriculture College, Adv. Study, University of Southern California.</td>
</tr>
<tr>
<td>Marie Treece</td>
<td>Voice, Choir</td>
<td>Pupil of Luis Novelli and R. M. Montague.</td>
</tr>
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<td>Herbert Weldon</td>
<td>Mathematics, Physics</td>
<td>A. B., M. A., Western State College of Colorado.</td>
</tr>
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<td>Lester B. Whetten</td>
<td>Agriculture</td>
<td>B. A., Brigham Young University, M. S., Brigham Young University, Adv. Grad. Study, University of Chicago; University of Colorado; Colorado A. &amp; M. College.</td>
</tr>
<tr>
<td>SPECIAL MUSIC INSTRUCTORS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anna Ross Cheney</td>
<td>Voice</td>
<td></td>
</tr>
<tr>
<td>Elizabeth Fugate</td>
<td>Piano</td>
<td>A. B., Colorado State College of Education.</td>
</tr>
<tr>
<td>Anna May Heiny</td>
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</tr>
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<td>Marion L. Jacobs</td>
<td>Brass Instruments</td>
<td>M. A., Western State College of Colorado.</td>
</tr>
<tr>
<td>Charles Myers</td>
<td>Piano</td>
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<td>Charles J. Steen</td>
<td>Woodwind Instruments</td>
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<td>VOCATIONAL INSTRUCTORS</td>
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<td>Benson, Herbert</td>
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<td>M. E., Colorado A. &amp; M. College, B. S., Colorado A. &amp; M. College, R. L., Electricity, Shop</td>
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</tr>
<tr>
<td>Dexter, Charles</td>
<td>Sheet Metal</td>
<td></td>
</tr>
<tr>
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<td>Carpentry</td>
<td></td>
</tr>
<tr>
<td>Turner, Charles</td>
<td>Shop</td>
<td></td>
</tr>
<tr>
<td>White, Clarence</td>
<td>Plumbing</td>
<td></td>
</tr>
<tr>
<td>ADMINISTRATIVE ASSISTANTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rebecca Anderson</td>
<td>Administrative Secretary</td>
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</tr>
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<td>Virginia Rutledge</td>
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<td>B. A., Louisiana State University.</td>
</tr>
<tr>
<td>Elmer G. Houston</td>
<td>Maintenance Superintendent</td>
<td></td>
</tr>
</tbody>
</table>
Harry Hammer
B. M., M. M., Syracuse University.

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M.A., University of Chicago.

George Lake
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A. M., University of Michigan.

Kenneth LeMoine
A. B., M. Ed., University of Colorado.

Melvin McNew
A. B., M. A., Western State College of Colorado.

Harlan Morton
B. Ed., Western Illinois State Teachers College.
Grad. Study, University of Iowa; University of Colorado.

Paul Phillips
B. S., University of Arkansas.
M. S., University of Oklahoma.

Mary Rait
B. A., M. A., University of Colorado.
Adv. Grad. Study, University of Washington;
Columbia University; University of Colorado.

Alvie Redden
B. S., West Texas State College.
M. F. A., In Progress, University of Colorado.

Laura Smith
A. B., A. M., University of Wichita.

GRAND JUNCTION, COLORADO

Dallas Sutton
A. B., University of Colorado.
M. S., Northwestern University.

Jay Tolman
B. S., Utah State Agriculture College.
Adv. Study, University of Southern California.

Marie Trece
Capitol 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 Pugate
A. B., Colorado State College of Education.

Anna May Heiny
A. B., Colorado State College of Agriculture and Mechanic Arts.

Marion L. Jacobs
Brass Instruments
M. A., Western State College of Colorado.

Charles Myers
Piano

Charles J. Steen
Woodwind Instruments
A. B., Utah State College.
Graduate Study, Northwestern University.

VOCAATIONAL INSTRUCTORS.
Benson, Herbert, M. E., Colorado A. & M. College. Supervisor
Baldwin, Cecil, B. S., Colorado A. & M. College. Electricity
Constantine, Gus. Shop
Dexter, R. L. Radio
Ford, John, B. S., University of Southern California Blue Print Reading
Geisinger, James. Sheet Metal
Ritchey, Clarence. Carpenter
Sperber, Fred. Shop
Stirton, Charles. Plumbing

ADMINISTRATIVE ASSISTANTS.
Rebecca Anderson
Administrative Secretary
B. S. E., University of Arkansas.

Virginia Rutledge
Assistant Secretary
B. A., Louisiana State University.

Elmer G. Houston
Maintenance Superintendent
ADVANTAGES OF A JUNIOR COLLEGE

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

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

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

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

5. CLOSER PERSONAL RELATIONS.
   The limited size of the junior college contributes to closer personal relationships 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.

GRAND JUNCTION, COLORADO

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, becoming a part of the University of Colorado and all other institutions of higher learning in Colorado. Mesa College is a member of the American Association of Junior Colleges, an organization comprising some 400 junior colleges.

BUILDING AND EQUIPMENT.
   The $200,000 Mesa College building, completed in March 1940, covers nearly one-half city block in area. The two-story structure has been acclaimed by building authorities as one of the most modern and practical college plants in the West. Constructed in modern design, the building includes the administrative offices, class rooms, lecture rooms, laboratories, auditorium-gymnasium, library, special physical education rooms, and instructors' offices. First-floor halls are equipped with individual lockers for students' use.

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

   The library, which now has more than 9,000 volumes and a wide selection of current magazines, is well lighted and air-conditioned. The various laboratories—chemical, physical, biological, home economics, and business—are fitted with modern equipment, permitting a high quality of laboratory work to be done.

   An on-campus cafeteria, school operated, will serve 300 students. The cost of meals is nominal.

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

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

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

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HOUSING.
Mesa College is building a women's dormitory to house out-of-
town women students. The hall will accommodate about seventy. Small individual rooms, communicating with a group living room and bath make as new units for four or six upper women. This dormitory will be completed before September, 1948.

After its completion, out-of-town women students will live in the dormitory unless they find it necessary to work for board and room. The college administration requires that students live in houses approved by the college. A list of these accommodations is available in the office of the Dean of Women. Out-of-town students who board and room in Grand Junction are expected to observe the college regulations concerning study, recreation, and entertaining.

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

STUDENT ACTIVITIES

STUDENT GOVERNMENT.
The associated students of Mesa college have charge of all student activities. Management of their affairs is vested in a council composed of elected student officers, class representatives, and faculty members. Part of the all-college 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-westerly 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.

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

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.

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

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 better men and sponsors good sportsmanship.

MAYHEM.
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.

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

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

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

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

Book reviews, play readings, lectures, conference, demonstrations and musical programs are presented at the college for 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. Some students do light housekeeping and are able to reduce this cost, somewhat.

BOOKS AND SUPPLIES.
Text books, notebooks and school supplies are sold at cost at the College Bookstore. Cost for needed supplies will vary according to the courses taken by the student but ought not to exceed 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.

GRAND JUNCTION, COLORADO

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) ....... 25.00 per quarter
Out-of-state students .................................. 50.00 per quarter
All-College Fee ......................................... 15.00 per quarter

LABORATORY FEES.
Applied Music ........................................ $15.00-$20.00 per quarter
Laboratory Science ................................... 5.00-10.00 per quarter
Biology ................................................ 5.00 per quarter
Chemistry ............................................ 10.00 per quarter
Home Economics (one lab hour taken) ............. 1.00 per quarter
Art (for each quarter hour taken) ................. 1.00 per quarter
Shop .................................................. 15.00 per quarter
Related Training courses ............................ 15.00 per quarter
Ground School ....................................... 70.00 per hour
Flight training, dual ................................ 8.00 per hour
Sail .................................................. 7.75 per hour

MISCELLANEOUS FEES.
Late registration ..................................... $ 2.00
Change in schedule .................................. 1.00
Late or special examination (including GED tests) each 3.00
Graduation (cap, gown, diploma) .................... 3.00
Late petition for graduation ....................... 1.00
Late credential fee ................................ 2.00

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. Late fees are charged for each 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 re-
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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 or 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 unmet 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 re-
funded. 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 scholarships to one freshman from each high school in this region based upon the recommendation of the high school principal. This Mesa College Scholarship covers the cost of 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 for residents of the county.

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

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

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 each of the following: the Cooper Foundation; and the Elks Sidmore 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 while in college.

The local Branch of A. A. U. W. awards a scholarship to a freshman woman to be used during her sophomore year at Mesa. Colorado’s Western Slope Altrusa Club offers a two-year scholarship to an outstanding woman graduate of Mesa to be used in pursuing further study.

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

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

ORGANIZATION FOR INSTRUCTION

The program for the two years at Mesa College will depend upon what the student plans to do at the end of two years. For those who plan to continue college work in a senior college or university the courses in liberal arts, which are equivalent to such first- and second-year courses at 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 interests lie. 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, giving an emphasis on general education and to offer a well-rounded general cultural program for those who do not plan to continue for four years.

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

SCHOOL OF COMMERCE.

The basic purpose of the Mesa College School of Commerce is to provide young men and women with the necessary specialized training for a future of self-reliance and economic opportunity. 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 had previous training in commerce, and one for those students who have 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.
funded. 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 scholarships to one freshman from each high school in this region based upon the recommendation of the high school principal. This Mesa College Scholarship covers the cost of 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 for residents of the county.

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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.

GRAND JUNCTION, COLORADO

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 junior college or university the courses in liberal arts, which are equivalent to such first-and second-year courses at higher institutions of the state, are required. Certain definite lower-division requirements are met by the courses leading to the Associate in Arts or the Associate in Science. Other courses will depend upon the field in which the student's major interest lies, but will consist of such as fit into the student's planned program to be followed in the junior and senior years.

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

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

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

SCHOOL OF COMMERCE.
The basic purpose of the Mesa College School of Commerce is to provide young men and women with the necessary specialized training for a future of self-reliance and economic opportunity. Two types of 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.

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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 typing, shorthand, and bookkeeping will not be allowed those who have had 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.
These students who look forward to promotion from routine steno- graphy 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.

ACCELERATED BUSINESS TRAINING.
The Business Department is so organized that it is possible for a person to begin certain subjects at any time during the school year. These subjects consist of: Bookkeeping and Accounting, Business English, Business Law, Business Arithmetic, and Business Machines. They are offered under an accelerated program in which the student may progress as fast as his ability and desire permit. A student has an option of taking these courses for "credit" or "no-credit." A student taking one or more courses under the accelerated program, with no intention of receiving college credit hours, may receive a "Certificate of Completion" for each course in which the minimum requirements are met. Typewriting and Shorthand may also be taken by students working under this program, but these subjects will be taken at the time regular college classes in them are given.

COURSES FOR ADULTS
The regular college classes are open to adults of the community who may register as full- or part-time students. In addition, evening classes are offered during the summer quarter in courses for which there is sufficient demand in the School of Arts and Sciences. These classes are given on a non-credit basis.

Courses are offered regularly in the Evening School of Commerce for two to four evenings each week during the fall, winter, and spring quarters. These courses may be taken on a credit or non-credit basis. A fee of $10.00 per quarter is charged for each course meeting one hour twice a week.

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

Short information and refresher courses will be given on timely problems to groups who may desire them. These may be in the form of concentrated units meeting every day for a short period on such problems as feeding dairy cows, culling poultry or controlling disease of livestock, or more comprehensive courses such as Farm Machinery repair, which might meet several nights per week and run for an indefinite period of time. Each program will vary with the interests and needs of the farmers or students who compose the classes.
Those students who look forward to promotion from routine steno-
graphy or bookkeeping to more responsible secretarial or junior
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such as Farm Machinery repair which might meet several nights
per week and run for an indefinite period of time. Each program
will vary with the interests and needs of the farmers or students
who compose the classes.
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 advisor 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 tests 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 and Hygiene, 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 freshmen 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 5 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 25, 1948. 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.
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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.

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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.

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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.

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TIME OF REGISTRATION.

Fall Quarter registration will begin at 9:00 a.m., September 22, 1948. 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. File with the Registrar a petition for graduation when registering for the last quarter. Penalty for late filing shall be $1.00.
4. Satisfy all general and specific requirements of Mesa College which pertain to him, including the fulfillment of all financial obligations.
5. Have removed from his record all marks of deficiency in those subjects for which he expects to receive credit toward graduation.
6. Be in attendance upon the Commencement exercises of his class unless a petition of absence, properly made by him to the committee on graduation, is approved by that committee.

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 plan to complete their formal education at the end of two years, or who do not meet the requirements for admission to the upper division of a four-year institution. Those who matriculate as regular students, spend at least one year in residence, and complete 60 hours in college courses are entitled to the diploma.

The Associate in Arts degree is granted to students who meet the entrance requirements, matriculate as regular students, spend at least one year in residence and complete with an average of C or better, 60 hours including English composition, 9 hours; physical science, 9 hours; history or other social science, 9 hours; litera-
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1. Have been regularly enrolled at least three quarters including the one next preceding the time of his graduation.

2. Satisfy the general and specific requirements for the degree or diploma for which he is a candidate.

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

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

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

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

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The Mesa College diploma is granted to those students who plan to complete their formal education at the end of two years, or who do not meet the requirements for admission to the upper division of a four-year institution. Those who matriculate as regular students, spend at least one year in residence, and complete 66 hours in college courses are entitled to the diploma.

The Associate in Arts degree is granted to students who meet the entrance requirements, matriculate as regular students, spend at least one year in residence and complete with an average of C or better, 66 hours including English composition, 9 hours; physical science, 9 hours; history or other social science, 9 hours; litera-

ture, 9 hours; biology or psychology, 9 hours; physical education, 6 hours; approved electives, 18 to 24 hours; free electives, 27 to 31 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, such as education, home economics, etc.

The Associate in Science degree is granted to regular students who include the following courses in their program and who complete 66 hours with an average of C or better: Science and mathematics, 30 hours, of which at least 8 must be in mathematics; English composition, 9 hours; physical education, 6 hours; approved electives 18 to 23 hours; free electives, 24 to 18 hours.

The Associate in Commerce degree is granted to students who complete, with an average of C or better, 96 hours including the following courses: Freshman English, 9 hours; Mathematics or Physical Science, 8 hours; Principles of Economics, 9 hours; Social Science, 9 hours; Physical Education, 6 hours; Business Law, 3 hours; Business Mathematics, 5 hours; Business Machines, 2 hours; and Filing, 3 hours.

In addition, those who elect the Accounting Option must take Typewriting 3; Accounting 51, 52, 53; and necessary prerequisites.

These who elect the Secretarial Option must take Typewriting 51, 52, 53; Secretarial Practice, Accounting 2; and necessary prerequisites.

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

CHANGE OF PROGRAM.

No student may 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 instructor. Failure to abide by this rule will result in the assignment of technical failure (TF) for the course or courses involved.

Transfer from one curriculum to another should not be made by a student without his counselor's approval.

ATTENDANCE.

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

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

Absences will be excused when incurred by reason of a student's participation in required field trips, intercollegiate games and other trips arranged by the college only if previously approved by the President. The coach or instructor or other official whose work requires absence 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 from 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 admissions committee. The programs of students who are gainfully employed are adjusted according to the number of hours they work a day, with due consideration given to the ability of the students.

COURSE CONTINUATION.

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

SCHOLARSHIP STANDARDS.

Standards of scholarship at Mesa College depend upon the objectives, nature and content of the courses. While individual progress is a basic consideration, and the development of each student in the light of his needs and aptitudes is the major concern of the college, it cannot be too strongly emphasized that if minimum standards are not maintained failure will result. In no case is credit 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 evidence 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-
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 third Monday in any quarter, for a full-time class schedule. A part-time program may be started at any time during the first six weeks of a quarter. The number of courses allowed will depend upon the time a student registers.

**CHANGE OF PROGRAM.**

No student may 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 instructor. Failure to abide by this rule will result in the assignment of technical failure (TF) for the course or courses involved.

Transfer from one curriculum to another shall 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.

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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 is 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 admissions committee. The programs of students who are gainfully employed are adjusted according to the number of hours they work a day, with due consideration given to the ability of the students.

**COURSE Continuation.**

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

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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; 5, satisfactory (given in physical education courses, for example); 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. Failure to pass 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 instructor 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 standing as to conduct and character is such as to entitle him to continue in the college.

GRAND JUNCTION, COLORADO

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

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<td>Accounting 51</td>
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<td>Economics 50</td>
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SECOND YEAR

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AGRICULTURE (Transfer)*

FIRST YEAR

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SECOND YEAR

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ACCOUNTING

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Hours</th>
<th>Winter Quarter</th>
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SECOND YEAR

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AGRICULTURE (Transfer)*

FIRST YEAR

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<th>Spring Quarter</th>
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SECOND YEAR

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

### FIRST YEAR

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### SECOND YEAR

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## BUSINESS ADMINISTRATION

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## ONE YEAR BUSINESS TRAINING

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## PRE-DENTISTRY

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## GRAND JUNCTION, COLORADO

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## ART

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## BUSINESS ADMINISTRATION

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**MESA COLLEGE**

**1948 — CLASS SCHEDULE — 1949**

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**Abbreviations:**
- **Ed**—Education
- **Grant**—German
- **MDR**—Mechanical Drawing
- **PEM**—Physical Education, men
- **PEW**—Physical Education, women
- **Seco**—Secretarial Science
- **Shed**—Shed

**Music Ensembles:**
- Choir meets 8:00-8:30 A.M. Daily
- Orchestra meets 7:30-8:30 P.M. Tuesday
- Small Ensembles in voice or orchestral instrument—time to be arranged.

**Applied Music:**
- Time for individual lessons to be arranged with instructors.
### FALL WINTER SPRING FALL WINTER SPRING 8:20 A.M. 9:20 A.M. 10:20 A.M. DAILY DAILY DAILY

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### FALL WINTER SPRING FALL WINTER SPRING FALL WINTER SPRING 11:12 A.M. 1:30 P.M. 2:35 P.M. DAILY DAILY DAILY

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### 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 3 Thurs. 1:30-3:15
  - Agr 3 Thurs. 9:25-11:15.
  - Biology 21, 22 Tues, Thurs. 9:25-11:15—Biology 31, 32 Tues, Thurs. 1:30-3:15.
  - Biology 51 Mon., Wed., Fri. 8:35-10:15—Biology 53 Tues, Thurs. 8:35-10:15.
  - Geology 1, 2, 3 Tues, Thurs. 1:30-3:15.
  - Physics 41, 42, 49, 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.

### MUSIC ENSEMBLES:

- Choir meets Tues. 9:30-9:55 A.M. Daily.
- 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.

** Abbreviations:**

- Ed—Education
- Gr.—Grammar
- MDR—Mechanical Drawing
- FEM—Physical Education, men
- FEW—Physical Education, women
- SecSci—Secretarial Science
- Shnd—Shorthand

**Grand Junction, Colorado**
## Engineering (Regular)

### First Year

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### 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 Mathematics 13 and Chemistry 3 in the summer before the sophomore year, if possible, and thus be able to take Engineering Physics in the second year.

### First Year

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*Those who have credit in high school Physics.*

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## Grand Junction, Colorado

## General Education (Terminal)

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## General Liberal Arts (Transfer)

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## Home Economics (Transfer)

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### Engineering (Regular)

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### 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 Mathematics 13 and Chemistry 3 in the summer before the sophomore year if possible, and thus be able to take Engineering Physics in the second year.

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*Those who have credit in high school Physics.

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#### PRE-LAW

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## GRAND JUNCTION, COLORADO

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### ONE YEAR NURSING CURRICULUM

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## Physical Education

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### Second Year

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## Secretarial Science

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*Accounting 1 and 2 must be taken before Accounting 3 unless one of high school bookkeeping was offered for entrance credit. If Accounting 3 is taken in Winter quarter, Speech 2 should be taken in Spring quarter.

### Second Year

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**Electives are allowed only when required courses have been taken or scheduled.

## One Year Stenography

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## PHYSICAL EDUCATION

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### SECOND YEAR

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<th>Fall Quarter</th>
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## SECRETARIAL SCIENCE

### FIRST YEAR

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**Accounting 1 and 2 must be taken before Accounting 3 unless one unit of high school bookkeeping was offered for entrance credit. If Accounting 3 is taken in Winter quarter, Speech 1 should be taken in Spring quarter.

### ONE YEAR STENOGRAPHY

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<th>Fall Quarter</th>
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**Electives are allowed only when required courses have been taken or scheduled.
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 33 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.

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 agricultural freshmen. 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. FUNDAMENTALS OF 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. 4 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. Three hours class work and one two-hour laboratory period per week.

3. 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. Prerequisite: 10 hours botany. Four hours lecture and discussion and two hours laboratory per week.

GRAND JUNCTION, COLORADO

42. LIVESTOCK JUDGING AND SELECTION. F. 2 hours
A study of animal form and its relation to the function of the individual. Emphasis is placed on the evaluation of live animals in terms of their probable value for producing the product for which they are intended. Market and breeding classes of livestock will be judged. Prerequisite: Agriculture 21. Two laboratory periods per week.

51. 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 3.

53. GENERAL POULTRY HUSBANDRY. W. 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. Prerequisite: Zoology 5. One laboratory period and four hours in class each week.

55. FRUIT PRODUCTION. S. 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.

61. 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.

62. FARM MANAGEMENT. W. 4 hours
A study of the principles underlying the organizing, 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.

63. GENERAL DAIRY HUSBANDRY. S. 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. Three class periods and two laboratory periods per week.

ART

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

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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 5.

52. GENERAL POULTRY HUSBANDRY. W. 5 hours
A study of poultry, 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. Prerequisite: Zoology 5. Five hours laboratory period and four hours in class each week.

53. FRUIT PRODUCTION. S. 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.

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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. FIRST YEAR 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.

21. 22. 23. INTRODUCTION TO ART. FWS. 2 hours.
A combined lecture and laboratory course, in which a survey of art history is given from the standpoint of periods and their contributions. Motifs of the period are studied and then applied to present day problems in the manner of color and design creations. Required of art majors.
Two hours lecture and two hours laboratory per week.

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, charcoal, tempera and wash techniques are executed in advertising problems. Reproduction processes are discussed and reproductions 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.

61. 62. 63. SECOND YEAR 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. 2 hours.
Composition is stressed in creative problems, understanding of light and dark masses gained through preparatory designs for paintings, oil painting materials studied and paintings executed in full color. Six laboratory hours per week. Prerequisites: Art 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. Note: Required of all Educational majors.

83. INDIVIDUAL PROJECTS. S. 3 hours.
This is a completion quarter in individual project work for students who have completed three quarters of color and design. Techniques in various crafts and fine arts will be taught, depending upon the needs and interests of students enrolled. Six laboratory hours per week.

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.

51. MAMMALIAN ANATOMY AND PHYSIOLOGY. F. 5 hours.
Lectures on human anatomy and physiology. Laboratory work will consist of complete dissection of the rabbit. Two lectures and three laboratory periods each week. Prerequisite: 9 hrs. biology, botany, or zoology.

55. PRINCIPLES OF HEREDITY. W. 3 hours.
Facts and principles of heredity as developed from the study of plants and animals. Human inheritance; genetics, mental defects, individual differences. Open to all Sophomores.

53. GENERAL BACTERIOLOGY. S. 5 hours.
Lectures and laboratory work on bacteria, yeasts, molds, isolation, identification and cultivation. Preservation of foods, fermentation, food-borne diseases. Prerequisites: 9 hrs. biology, botany, or zoology.
The Art Collection. The art department reserves the right to retain two examples of work from each student to add to its collection.

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Six laboratory hours per week.

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A combined lecture and laboratory course, in which a survey of art history is given from the standpoint of periods and their contributions. Motifs of the period are studied and then applied to present day problems in the manner of color and design creations. Required of all general majors.
Two hours lecture and two hours laboratory per week.

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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 production. Reproduction processes are discussed 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.

51, 52, 53. SECOND YEAR 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. 2 hours.
Composition is stressed in creative problems, understanding of light and dark masses gained through preparatory designs for paintings. Oil painting materials studied and paintings executed in full color. Six laboratory hours per week. Prerequisites: Art 1, 2, 3, and Art 11, 12, 13.

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Lectures on human anatomy and physiology. Laboratory work will consist of complete dissection of the rabbit. Two lectures and three laboratory periods each week. Prerequisite: 9 hrs. biology, botany, or zoology.

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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.

55. GENERAL BACTERIOLOGY. S. 5 hours.
Lectures and laboratory work on bacteria, yeasts, molds, isolation, identification and cultivation. Preservation of foods, fermentation, food-borne diseases. Prerequisites: 9 hrs. biology, botany, or zoology.
COMMERCIAL EDUCATION

ACCOUNTING

1. 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.

3. APPLIED 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 admin-
   istration. Besides introduction to the fundamental principles of
   double-entry bookkeeping, the accounting principles are de-
   veloped 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

31, 32, 33. BUSINESS ENGLISH. Each course FW&S 3 hours.
   This course, which is phrased entirely in business vocabulary is
   a thorough review of grammatical principles as used in business
   correspondence. The fundamental rules of punctuation are
   stressed. The composition (and preparation in typewritten form)
   of available letters receive especial emphasis. Supplementary
   reading, discussion, and the writing of a research paper give oppor-
   tunity to apply the principles of grammar and punctuation.

41. BUSINESS ARITHMETIC. FWS. 5 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 ORGANIZATION. FWS. 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.

GRAND JUNCTION, COLORADO

43. INTRODUCTION TO BUSINESS LAW. FWS. 3 hours.
   A study of the usual contractual relationships in the business
   world. Numerous cases are employed to illustrate the rights and
   obligations of anyone in the pursuit of ordinary business trans-
   actions. This course should help the student to know when he
   needs the services of an attorney, and to discuss intelligently
   his legal problems with persons qualified to know what his rights
   are.

91, 92, 93. BUSINESS MACHINES. FWFS 1 hour.
   Fundamental skills are developed in such machines as the Sun-
   strand and Dalton Adding List Machines; the Monroe, Bur-
   roughs, Marchant, Calculating machines; Burroughs, Rand and
   Commercial Posting Machines; and Underwood-Eliot-Fisher Ac-
   counting and Writing Machine. A student earns one hour credit
   for each machine completed. Approximately 50 practice hours
   are required. Prerequisite: Permission of the instructor.

SECRETARIAL SCIENCE

51. FILING. FW 3 hours.
   Alphabetic, numeric, geographic, subject, and soundex systems
   of filing are studied. Practice is given in the finding of cor-
   respondence as well as in the filing of material.

52. SECRETARIAL PRACTICE. S 3 hours.
   Particular emphasis is given to such topics as general office
   knowledge, business ethics and dress, and the application of
   typing and shorthand to office problems. Prerequisite: Shorthand
   91 or enrollment in Shorthand 51.

53. DICTAPHONE. FS 1 hour.
   Instruction on the complete Dictaphone—transcriber, shaper, and
   dictation machine—is given. Office proficiency on the transcrib-
   er is developed. Prerequisite: Typewriting 3 or enrollment in
   Typewriting 3.

SHORTHAND

1. 2. 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.

3. BEGINNING DICTATION. FWS 4 hours.
   Review of the principles of shorthand. Dictation is given at the
   rate of 50 words. Machine transcription, with special attention
   to letter arrangement. Prerequisite: Shorthand 2 or equivalent.
   Typewriting 3 or enrollment in Typewriting 3.

51. INTERMEDIATE DICTATION AND TRANSCRIPTION. FWS 4 hours.
   A dictation speed of 90-100 words a minute is attained, with a
   mailable transcript. Prerequisite: Shorthand 3 or equivalent.

52. ADVANCED DICTATION AND TRANSCRIPTION. FWS 4 hours.
   The study of shorthand is applied to the terminology of various
   vocations. Dictation at the rate of 110-120 words. Prerequisite:
   Shorthand 51.
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.

3. APPLIED ACCOUNTING.  F or S.  4 hours.
For those who plan to go into secretarial office work and may
be required to keep the accounts of a dentist, lawyer, or other
professional individual, or for those who will need to keep
financial records for themselves or others. It is a terminal
course and is not required for those who plan to take Principles
of Accounting. Prerequisite: Accounting 2, or equivalent.

51, 52, 53. PRINCIPLES OF ACCOUNTING.  FWS. 3 hours.
Intended for those students who plan to major in business admin-
istration. Besides introduction to the fundamental principles of
double-entry bookkeeping, the accounting principles are de-
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

31, 32, 33. BUSINESS ENGLISH.  Each course FW & S.  3 hours.
This course, which is phrased entirely in business vocabulary is
a thorough review of grammatical principles as used in business
correspondence. The fundamental rules of punctuation are
stressed. The composition (and preparation in typewritten form)
of available letters receives especial emphasis. Supplementary
reading, discussion, and the writing of a research paper give opportu-
nity to apply the principles of grammar and punctuation.

41. BUSINESS ARITHMETIC.  FWS.  5 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 ORGANIZATION.  FWS.  2 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.

GRAND JUNCTION, COLORADO

43. INTRODUCTION TO BUSINESS LAW.  FWS.  3 hours.
A study of the usual contractual relationships in the business
world. Numerous cases are employed to illustrate the rights and
obligations of anyone in the pursuit of ordinary business trans-
actions. This course should help the student to know when he
needs the services of an attorney, and to discuss intelligently
his legal problems with persons qualified to know what his rights
are.

91, 92, 93. BUSINESS MACHINES.  FWS.  1 hour.
Fundamental skills are developed in such machines as the Sun-
strand and Dalton Adding Listing Machines; the Monroe, Bur-
roughs, Merchant, Calculating machines; Burroughs, Rand and
Commercial Posting Machines; and Underwood-Elliot-Fisher Ac-
counting and Writing Machine. A student earns one hour credit
for each machine completed. Approximately 80 practice hours are
required. Prerequisite: Permission of the instructor.

SECRETARIAL SCIENCE

51. FILING.  FW.  3 hours.
Alphabetic, numeric, geographic, subject, and soundex systems
of filing are studied. Practice is given in the finding of cor-
respondence as well as in the filing of material.

52. SECRETARIAL PRACTICE.  S.  3 hours.
Particular emphasis is given to such topics as general office
knowledge, business ethics and dress, and the application of
typing and shorthand to office problems. Prerequisite: Short-
hand 51 or enrollment in Shorthand 51.

53. DICTAPHONE.  FS.  1 hour.
Instruction on the complete Dictaphone—transcriber, chaser, and
dictation machine—is given. Office proficiency on the transcrib-
er is developed. Prerequisite: Typewriting 3 or enrollment in
Typewriting 3.

SHORTHAND

1. 2. SHORTHAND THEORY.  FW.  4 hours.
The study of the principles of shorthand through reading and
writing. Some practice dictation is given in the second quarter.

3. 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: Shorthand 2 or equivalent.
Typewriting 3 or enrollment in Typewriting 3.

51. INTERMEDIATE DICTATION AND TRANSCRIPTION.  FWS.  4 hours.
A dictation speed of 90-100 words a minute is attained, with a
mailable transcript. Prerequisite: Shorthand 3 or equivalent.

52. ADVANCED DICTATION AND TRANSCRIPTION.  FWS.  4 hours.
The study of shorthand is applied to the terminology of various
vocations. Dictation at the rate of 110-120 words. Prerequisite:
Shorthand 51.
TYPEWRITING

1. BEGINNING TYPEWRITING. FWS. 2 hours.
A beginning course in which the keyboard and fundamentals of typewriting are taught.

3. INTERMEDIATE TYPEWRITING. FWS. 2 hours.
Review of letter styles, forms of punctuation, and other fundamentals. Intensive drill on letter placement. Development of speed required in the average office. Prerequisite: Typewriting 2 or equivalent.

51. ADVANCED TYPEWRITING. WS. 3 hours.
Study of tabulations, telegrams, legal forms, and mimeograph work. Development of speed on varied material, rather than straight-copy work. Prerequisite: Typewriting 3.

ENGLISH

ENGLISH LANGUAGE

21. REVIEW ENGLISH. 3 hours terminal credit.
A course designed for those students who need a review in the fundamentals of English before beginning college work in this field. It includes a review of high school grammar and punctuation, vocabulary building, composition, spelling, and reading. No transfer credit is allowed for this course.

21. REMEDIAL ENGLISH. F or W. No credit.
A course required of freshmen who are deficient in reading and writing 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 21 meets twice a week for a quarter.

1, 2, 3. FRESHMAN ENGLISH. FWS. 3 hours.
The ability to speak and write correctly and effectively is the real object 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.

4, 5, 6. FRESHMAN ENGLISH. FWS. 3 hours.
The course is similar to English 1, 2, 3, but is designed to meet the special needs of Commerce students.

21. WORD STUDY. F, W, or S. 2 hours.
The course is based primarily upon the practical, everyday words. The work is correlated so that spelling, usage, pronunciation, and syllabication give a more complete mastery of words and vocabulary.

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 received in this course is gained from active participation on the Criterion staff.

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

LITERATURE

41. 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. Open to Freshmen and Sophomores.

42. POETRY. W. 2 hours.
This course is planned to develop the student's understanding and appreciation of English and American poetry. Open to Freshmen and Sophomores.

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. Open to Freshmen and Sophomores.

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

61, 62, 63. SURVEY OF AMERICAN LITERATURE. FWS. 3 hours.
This course consists of three quarters and 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.

71, 72, 73. SOPHOMORE LITERATURE. FWS. 3 hours.
This is a course in literature in the sophomore level designed to give students an approach to literature and an appreciation of it. Although the works studied are predominantly from English
TYPEWRITING

1. BEGINNING TYPEWRITING. FWS. 2 hours.
A beginning course in which the keyboard and fundamentals of typewriting are taught.

3. 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: Typewriting 2 or equivalent.

51. ADVANCED TYPEWRITING. WS. 3 hours.
Study of tabulations, telegrams, legal forms, and mimeograph work. Development of speed on varied material, rather than straight-copy work. Prerequisite: Typewriting 3.

ENGLISH

ENGLISH LANGUAGE

R1. REVIEW ENGLISH. 3 hours terminal credit.
A course designed for those students who need a review in the fundamentals of English before beginning college work in this field. It includes a review of high school grammar and punctuation, vocabulary building, composition, spelling, and reading. No transfer credit is allowed for this course.

G1. 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 G1 meets twice a week for a quarter.

2, 3, 4. FRESHMAN ENGLISH. FWS. 3 hours.
The ability to speak and write correctly and effectively is the result sought through this course. Instruction is given in the fundamentals of grammar, in the organization of themes, and in the use of the library. Attention is given to the development of vocabulary and to increasing speed and accuracy of comprehension through the study of essays on subjects of current interest. Required of all freshmen.

5, 6, 7. FRESHMAN ENGLISH. FWS. 3 hours.
The course is similar to English 1, 2, 3, but is designed to meet the special needs of Commerce students.

21. WORD STUDY. F. W. or S. 2 hours.
The course is based primarily upon the practical, everyday words. The work is correlated so that spelling, usage, pronunciation, and syllabification give a more complete mastery of words and vocabulary.

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 received in this course is gained from active participation on the Criterion staff.

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

LITERATURE

41. 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. Open to freshmen and sophomores.

52. POETRY. W. 2 hours.
This course is planned to develop the student's understanding and appreciation of English and American poetry. Open to freshmen and sophomores.

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 dramas. Open to freshmen and sophomores.

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

61, 62. SURVEY OF AMERICAN LITERATURE. FWS. 3 hours.
This course consists of three quarters presenting 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.

71, 72. SOPHOMORE LITERATURE. FWS. 3 hours.
This is a course in literature on the sophomore level designed to give students an approach to literature and an appreciation of it. Although the works studied are predominantly from English
SPEECH

1. 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. FUNDAMENTALS OF SPEECH. FW. 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, practice in the composition and delivery of short speeches, and intensive work in analysis of materials and sources.

12. DISCUSSION AND DEBATE. WS. 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. The two paramount objectives are: a knowledge of and proficiency in the techniques of speaking on controversial issues, and a mental reality which will make the student resistant to insincerity, hypocrisy, and sophistry. Prerequisite: Speech 1 or 11.

13. ORAL INTERPRETATION. FS. 2 hours.
This quarter 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 11 or 1.

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 solving them. The course will begin with History of the Theatre. Great plays will be studied with emphasis on what makes them good theatre. Accompanying the study of the theory of staging, lighting, costuming, make-up, directing and acting, will come actual experience along on all these lines. Plays will be produced by the students throughout the year.

FOREIGN LANGUAGE

FRENCH

I, 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 our 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

I, 2, 3. BEGINNING GERMAN. FWS. 5 hours.
This course consists in speaking and writing simple German, and in reading German of medium difficulty. An introduction to German figures gives a foundation for further study of German literature. 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

I, 2, 3. BEGINNING SPANISH. FWS. 5 hours.
Emphasis is given to the oral approach in learning to understand and speak Spanish of medium difficulty. The pronunciation and culture of Spanish America are used as the basis for this study. 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 representa
tive 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.

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 materials.

3. SELECTION AND CONSTRUCTION OF CLOTHING. S. 5 hours.
Fundamental experiences in selecting, purchasing, and constructing clothing to meet individual needs. Remodeling clothing, and a study of materials.
SPEECH

1. 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.

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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 solving them. The course will begin with History of the Theatre. Great plays will be studied with emphasis on what makes them good theatre. Accompanying the study of the theory of staging, lighting, costume, make-up, directing and acting, will come actual experience along all these lines. Plays will be produced by the students throughout the year.

FOREIGN LANGUAGE

FRENCH

1, 2, 3. BEGINNING FRENCH.  FWS. 5 hours.
An introduction to French through a conversational approach, leading to 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 kept for our-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.

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1, 2, 3. BEGINNING GERMAN.  FWS. 5 hours.
This course consists in speaking and writing simple German, and in reading German of medium difficulty. An introduction to German figures gives a foundation for further study of German literature. 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.

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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.

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. Remodeling clothing, and a study of materials.
21. ELEMENTARY FOODS  
   F. 2 hours.  
   This course, offered without enrollment, gives students training in planning and preparation of basic foods. Open to men and women. This course does not fulfill any requirement for Home Economics majors.

41. INDIVIDUALIZED CLOTHING.  
   F. 3 hours.  
   Selection, care, and construction of clothing to meet the individual needs of young women.

42. LIVING IN THE HOME.  
   W. 2 hours.  
   Study of family living problems including home decoration, first aid and home nursing, child care, and personal and family relationships.

43. FEEDING THE FAMILY.  
   S. 3 hours.  
   Principles and practice of selection and preparation of foods with emphasis on nutrition and the planning and serving of family meals.

51. 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 1, 2, 3.

52. 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.

MATHEMATICS AND ENGINEERING

GENERAL MATHEMATICS

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

01. ELEMENTARY ALGEBRA.  
   F. 3 hours terminal credit.  
   For students who do not have credit for one year of high school algebra. This course carries no transfer credit but meets college entrance requirements. It is a basic elementary course which will give the student a mastery of the elementary principles of algebra, and prepare him to continue with Math 1.

02. PLANE GEOMETRY.  
   W. 3 hours terminal credit.  
   For students who do not have credit for one year of high school geometry. This course carries no transfer credit but meets college entrance requirements. It includes plane geometry and the application of the geometric type of reasoning to problems of everyday life. Prerequisite: Elementary algebra.

HI. ESSENTIALS OF MATHEMATICS.  
   F, W, or S. 3 hours terminal credit.  
   A review course in arithmetic, algebra, and geometry. Principles and processes; logarithms; introduction to trigonometry; tabular, graphical, and analytical representation of functions. This course does not carry transfer credit.

1. COLLEGE ALGEBRA.  
   F, W, or S. 5 hours.  
   Fundamental concepts, laws, operations; review of factoring, fractions, linear equations; the graph, quadratic equations and simultaneous equations, binomial theorem, variation, progressions, determinants and systems of linear equations; exponents, radicals, logarithms; compound interest and annuities. Prerequisite: one year high school algebra, or Math 01, and one year of plane geometry, or Math 02.

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. Prerequisite: Math 1 and 2.

ENGINEERING MATHEMATICS

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

03. SOLID GEOMETRY.  
   FS. 3 hours terminal credit.  
   This course is offered so that students may make up deficiencies in their 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.  
   A course including a brief review of the more important topics from high-school algebra. In addition, systems involving quadratics; ratio, proportion, and variation; binomial theorem; progressions; function concept; mathematical induction; inequalities; complex numbers; theory of equations; computation and logarithms; mathematics of investment; permutations and combinations; probability; determinants; partial fractions; infinite series; method of least squares and related topics. Prerequisite: high school algebra through quadratics and plane geometry, and a satisfactory score on an entrance examination in mathematics.

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.
21. **ELEMENTARY FOODS.**
   F. 2 hours.
   This course, offered without science requirements, gives students training in planning and preparation of basic foods. Open to men and women. This course does not fulfill any requirement for Home Economics majors.

22. **INDIVIDUALIZED CLOTHING.**
   F. 3 hours.
   Selection, care, and construction of clothing to meet the individual needs of young women.

23. **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.

24. **FEEDING THE FAMILY.**
   S. 3 hours.
   Principles and practice of selection and preparation of foods with emphasis on nutrition and the planning and serving of family meals.

25. **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 1, 2, 3.

26. **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.

27. **PREPARATION AND SERVING OF MEALS.**
   S. 3 hours.
   Planning, preparing and serving family meals and special occasion menus.

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**MATHEMATICS AND ENGINEERING**

**GENERAL MATHEMATICS**

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

**01. ELEMENTARY ALGEBRA.**
F. 3 hours terminal credit.
For students who do not have credit for one year of high school algebra. This course carries no transfer credit but meets college entrance requirements. It is a basic elementary course which will give the student a mastery of the elementary principles of algebra, and prepare him to continue with Math 1.

**02. PLANE GEOMETRY.**
W. 3 hours terminal credit.
For students who do not have credit for one year of high school geometry. This course carries no transfer credit but meets college entrance requirements. It includes plane geometry and the application of the geometric type of reasoning to problems of everyday life. Prerequisite: Elementary algebra.

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**GRAND JUNCTION, COLORADO**

**81. ESSENTIALS OF MATHEMATICS.**
F, W, or S. 3 hours terminal credit.
A review course in arithmetic, algebra and geometric principles and processes; logarithms; introduction to trigonometry; tabular, graphical, and analytical representation of functions. This course does not carry transfer credit.

1. **COLLEGE ALGEBRA.**
F, W, or S. 5 hours.
Fundamental concepts, laws, operations; review of factoring, fractions, linear equations, the graph, quadratic equations and simultaneous quadratic equations; binomial theorem; variation, progressions; determinants and systems of linear equations; exponents, radicals, logarithms; compound interest and annuities. Prerequisite: one year high school algebra, or Math 01, and one year of plane geometry, or Math 02.

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**

These courses meet the requirements of students who wish to major in engineering or science, and those who plan to become teachers of 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.
A course including a brief review of the most necessary topics from high-school algebra. In addition, systems involving polynomials, rational, proportional, and variation; binomial theorem; progressions; function concept; mathematical induction; inequalities; complex numbers; theory of equations; computation and logarithms; mathematics of investment, permutations and combinations; probability; determinants; partial fractions; infinite series; method of least squares and related topics. Prerequisite: high school algebra through quadratics and plane geometry, and a satisfactory score on an entrance examination in mathematics.

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 method 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 based upon evidence of ability to do the work as shown by a test in algebra and analytical geometry.

MECHANICAL DRAWING

1. 2. ENGINEERING DRAWING.  
FS. 2 hours.
Use of drawing instruments, lettering, principles of orthographic projections, dimensions, reading drawing, auxiliary and sectional views are stressed. Course 1 includes six hours of drafting, with quizzes. Isometric, dimetric, oblique, cabinet drawing, linear perspective, working drawings, development of surfaces, tracing and blue printing are considered. This course includes six hours of drafting. Prerequisite for course 3: Engineering Drawing 1 and 2. Solid geometry should precede course 1.

2. DESCRIPTIVE GEOMETRY.  
W. 2 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. This course includes six hours of drafting, with quizzes. Prerequisite: Engineering Drawing 1 and Solid Geometry.

GRAND JUNCTION, COLORADO

AERONAUTICS

1. PRIMARY GROUND SCHOOL.  
F, W, or S. 2 hours.
Elementary knowledge of navigation, meteorology, and civil air regulations, considered necessary in the training of students desiring to become pilots for private flying.

2. PRIMARY FLIGHT TRAINING.  
F, W, or S. 2 hours.
Flight instruction necessary for the C. A. A. flight test for private pilot's license. Each student makes his own arrangement for flying time with approved flight operators.

MUSIC

THEORY AND HISTORY

1. 2. 3. ELEMENTARY THEORY.  
FWS. 5 hours.
This course is designed to give a thorough grounding 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. Rhythmical training includes the study of time durations, notation, time signatures, rhythmic reading and dictation. The fundamentals of the acoustics of music are also studied.

4. 5. 6. MUSIC FUNDAMENTALS.  
FWS. 1 hour.
The first quarter of this continuous course is designed for those students who have no previous knowledge of music. Among the topics studied are: Notation, scales, key signatures, time signatures, and the conception of rhythm, harmony, and melody. The instruments of the orchestra and the acoustical principles involved are discussed with demonstration by expert players. The course meets twice weekly.

The second quarter is devoted to reading and interpretation of songs and class exercises in elementary sight-singing and ear-training. Fundamentals of piano and vocal technique will be presented. Prerequisite: Music 11 or the equivalent.

The third quarter will include the study of the child's voice, the treatment of monotones, methods of teaching voice and reading songs; forms and styles of composition; elementary conducting. Prerequisites: Music 12 or equivalent.

51, 52, 53. ADVANCED THEORY.  
FWS. 3 hours.
A study of harmonic resources, from primary seventh chords through enharmonic modulation and higher dissonances. 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.

54, 55, 56. HISTORY OF MUSIC.  
FWS. 3 hours.
A survey of the history of musical development from the ancient Greeks through contemporary composers. Musical events are studied in their relation to world history. Lectures and readings are illustrated with recordings and motion picture films. Open to all students.
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, curve 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. 3 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. Prerequisite: Math 13 or consent of the instructor based upon evidence of ability to do the work as shown by a test in algebra and analytical geometry.

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

W. 3 hours.
Orthographic projection of points, lines, planes, and curved surfaces mostly in the third quadrant of projection are studied. The change of position method is applied to a series of practice problems and practical problems. Practical problems are presented as they would be encountered in engineering practice. The course includes six hours of drafting, with quiz sections. Prerequisite: Engineering Drawing 1 and Solid Geometry.

GRAND JUNCTION, COLORADO

AERONAUTICS
1. PRIMARY GROUND SCHOOL.
F, W, or S. 3 hours.
Elementary knowledge of navigation, meteorology, and civil air regulations, considered necessary in the training of students desiring to become pilots for private flying.

11. PRIMARY FLIGHT TRAINING.
F, W, or S. 2 hours.
Flight instruction necessary for the C. A. A. flight test for private pilot's license. Each student makes his own arrangement for flying time with approved flight operators.

MUSIC
THEORY AND HISTORY
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FWS. 5 hours.
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11, 12, 13. MUSIC FUNDAMENTALS.
FWS. 1 hour.
The first quarter of this continuous course is designed for those students who have no previous knowledge of music. Among the topics studied are: notation, scales, key signatures, time signatures, and the conception of rhythm, harmony, and melody. The instruments of the orchestra and the acoustical principles involved are discussed with demonstration by expert players. The course meets twice weekly.

The second quarter is devoted to reading and interpretation of songs and class exercises in elementary sight-singing and ear-training. Fundamentals of piano and wood technique will be presented. Prerequisite: Music 11 or the equivalent.

The third quarter will include the study of the student's voice, the treatment of monodies, methods of teaching note and reading scales; forms and styles of composition; elementary conducting. Prerequisite: Music 12 or equivalent.

51, 52. ADVANCED THEORY.
FWS. 3 hours.
A study of harmonic resources, from primary seventh chords through enharmonic modulation and higher dissonances. 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.

54, 55, 56. HISTORICAL MUSIC.
FWS. 3 hours.
A survey of the history of musical development from the ancient Greeks through contemporary composers. Musical events are studied in their relation to world history. Lectures and readings are illustrated with recordings and motion picture films. Open to all students.
ENSEMBLE MUSIC
Besides regularly scheduled class meetings, members of ensembles are required to attend special rehearsals and to take part in programs.

21, 22, 23. COLLEGE CHOIR. FWS. 1/2 hour.
A course for the purpose of study and presentation of standard choral compositions. The choir participates in college vespers services and radio broadcasts. Membership is open to all students.

31, 32, 33. COLLEGE BAND. FWS. 1/2 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. 1/2 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. 1/2 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. 1/2 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. 1/2 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 student's needs and level of attainment.

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

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

GRAND JUNCTION, COLORADO

PHYSICAL EDUCATION AND HYGIENE
The Department of Physical Education aims to provide an instructional program in physical education activities and personal hygiene. It is designed to secure optimum health and physical fitness, based upon the needs and interests of the students. All regular or full-time students are required to take physical education each quarter they are registered in the college unless physically unable, as evidenced by a doctor's certificate, to participate in physical activities.

All entering students are given a comprehensive health examination by a staff of qualified physicians and dentists to determine their health status and to apply follow-up procedures.

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

PEM 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR MEN. FWS. 1 hour.
Courses offered for beginners and advanced students in tennis, basketball, touch-football, tumbling, gymnastics, archery, football and varsity sports. Participating students provide their own personal equipment.

PEW 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR WOMEN. FWS. 1 hour.
Women students are required to take one team sport, one individual sport and one rhythmic course during the two years at Mesa. Courses offered in tennis, archery, spreadball, volleyball, basketball, badminton, square dancing, tap dancing, gymnastics and postural work according to the preference of a particular group. Participating students provide their own personal equipment.

HYGIENE

1. PERSONAL HYGIENE. F. W. or S. 2 hours.
Emphasis is placed upon the functional rather than the anatomic phases of personal hygiene. The course is planned to give the student a general understanding of the body and to aid him in the fine art of living. The course is based upon the following units of work: personal hygiene; mental hygiene, and environmental hygiene. The study consists of lectures, collateral reading, and term themes. Required of freshmen.

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.
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 vespers 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.

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This course is open to advanced instrumental students, and gives opportunities 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.

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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.

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

FEM 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, tumbiling, gymnastics, archery, football and varied sports. Participating students provide their own personal equipment.

FEM 1, 2, 3, 51, 52, 53. PHYSICAL EDUCATION FOR WOMEN.  FWS. 1 hour.
Women students are required to take one team sport and one rhythmic course during the two years at Mesa. Courses offered in tennis, archery, speedball, volleyball, basketball, badminton, square dancing, tag dancing, gymnastics and postural work according to the preference of a particular group. Participating students provide their own personal equipment.

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Emphasis is placed upon the functional rather than the anatomical 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 theses. Required of freshmen.

PHYSICAL SCIENCE

1, 2, 3. SURVEY OF PHYSICAL SCIENCE.  FWS. 3 hours.
A course designed to orient freshmen 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. 3. GENERAL INORGANIC CHEMISTRY. FWS. 4 or 5 hours.
Lectures and laboratory. Fundamental principles of general inorganic chemistry, and applications in science and society: atomic structure; periodic table; gas laws; non-metallic elements and their principal compounds. Designed for students who are planning to take a major in chemistry, medicine, engineering, or other scientific work where an adequate foundation in chemistry is required.

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 1, 2, 3.

61. QUALITATIVE ANALYSIS. F. 5 hours.
The separation and identification of the more common bases and acids. Prerequisite: Chemistry 2.

62. QUANTITATIVE ANALYSIS. W. 5 hours.
Elementary gravimetric and volumetric analysis. This course is designed for Pharmacy, pre-medical, medical-technology students, and chemistry majors. Prerequisites: Chemistry 61 and Trigonometry.

63. QUANTITATIVE ANALYSIS. S. 3 hours.
A continuation of Chemistry 62, with special attention to the methods of calculation and interpretation of analytical results. Required of Chemistry majors. Prerequisite: Chemistry 62.

GEOLOGY

1. 2. GEOLOGIC PROCESSES. FWS. 5 hours.
The nature of geologic agencies, erosional and diastrophic 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.

52. CONSERVATION OF NATURAL RESOURCES. W. 3 hours.
The conservation problem, soil resources, forests, water, wildlife, human conservation. Class and field work.

PHYSICS

1. INTRODUCTION TO PHYSICS. S. 5 hours.
A course in physics consisting of lectures, demonstrations, discussions, and laboratory work designed for the non-science major with special emphasis on the understanding of underlying principles and methods of physics and their application to life in modern times. The human body and its physical environment constitute the central theme.

SOCIAL SCIENCE

1. 2. 3. SOCIAL SCIENCE SURVEY. FWS. 3 hours.
This course introduces the student to the field of the social sciences and acquaints him with the common elements which bind them together. The fields of economics, political science, sociology and related sciences are presented with the material grouped around institutions, not traditional subject matter. The course is concerned with giving an understanding of the issues involved and of the common social problems thereby helping to solve them. It is particularly recommended to students who are not majoring in the field of social science. A freshman course.

ECONOMICS

51. 52. 53. PRINCIPLES OF ECONOMICS. FWS. 3 hours.
A course dealing with the structural organization of modern economic society, the ways in which it functions, the maladjustments in its operation resulting in problems calling for remedial action, and the policies pursued in attempts to make it function better. The study includes an analysis of rent, interest, profits, wages, prices, banking, foreign trade and the economic function of government. 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.
CHEMISTRY

1. 2. 3. GENERAL INORGANIC CHEMISTRY. FWS. 4 or 5 hours.
   Lectures and laboratory. Fundamental principles of general inorganic chemistry, and applications in science and society; atomic structure; periodic table; gas laws; non-metallic elements and their principal compounds. Designed for students who are planning to take a major in chemistry, medicine, engineering, or other scientific work where an adequate foundation in chemistry is required.

51. 52. ORGANIC CHEMISTRY. WS. 5 hours.
   Lectures, discussion, and laboratory exercises in the preparation and reactions of simple drugs and dyes. Prerequisite: Chemistry 2.

61. QUALITATIVE ANALYSIS. P. 5 hours.
   The separation and identification of the more common bases and acids. Prerequisite: Chemistry 2.

62. QUANTITATIVE ANALYSIS. W. 5 hours.
   Elementary gravimetric and volumetric analysis. This course is designed for Pharmacy, pre-medical, medical-technology students, and chemistry majors. Prerequisites: Chemistry 61 and Trigonometry.

63. QUANTITATIVE ANALYSIS. S. 3 hours.
   A continuation of Chemistry 62, with special attention to the methods of calculation and interpretation of analytical results. Required of Chemistry majors. Prerequisite: Chemistry 62.

GEOLOGY

1. 5. GEOLOGIC PROCESSES. FW. 3 hours.
   The nature of geologic agencies, erosional and diastrophic 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.

52. CONSERVATION OF NATURAL RESOURCES. W. 3 hours.
   The conservation problem, soil resources, forests, water, wildlife, human conservation. Class and field work.

PHYSICS

1. INTRODUCTION TO PHYSICS. S. 5 hours.
   A course in physics consisting of lectures, demonstrations, discussions, and laboratory work designed for the non-science major with special emphasis on the understanding of underlying principles and methods of physics and their application to life in modern times. The human body and its physical environment constitute the central theme.

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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.
32. ELEMENTARY INSTRUCTION METHODS. W. 3 hours.
Methods used in elementary instruction are examined in this course. Problems having to do with assignment, motivation, learning, appreciation, drill, and guidance in study are considered.

33. 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.

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.

HISTORY

1, 2, 3. MODERN EUROPEAN HISTORY. FWS. 3 hours.
This course seeks to give the student an understanding of peoples and events which helps to clarify the present world situation. It deals with great movements, political, social, and economic, from the beginning of modern times. The development of a spirit of nationalism, rise of the middle class, economic revolutions and changing political conceptions are studied. The Spring Quarter deals with the present time by use of contemporary materials. Class discussions, reports, lectures, text book and assigned readings are used to accomplish the purposes of the course.

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 happenings in the world, the course stresses reasons for, and background of those 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.

A one dollar library fee will be charged each quarter.

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’s 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, text books, 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.

51, 52, 53. GENERAL PSYCHOLOGY. FWS. 3 hours.
This course is designed to give the student the fundamental understanding of the causes and methods of behavior, and to give him practical suggestions for the control and improvements of his own life. Factors in development, motivation, emotions, the special senses, attention and perception, learning, and thinking. The role of psychology in the solving of personal and social problems including a study of individual differences, intelligence, dynamic factors in personality, and social and vocational adjustment.

SOCIOLOGY

61, 62. GENERAL SOCIOLOGY. FWS. 2 hours.
A course designed to familiarize the student with basic group relationships. Various approaches are made to the study of social growth, social change, and social control.

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.

71. MARRIAGE AND THE FAMILY. S. 3 hours.
The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems, changing functions and the family, efforts at stabilization, and the problem of adjustment to a changing society. Prerequisite: Sophomore standing or permission of the instructor.
53. ELEMENTARY INSTRUCTION METHODS. W. 3 hours.
Methods used in elementary instruction are examined in this course. Problems having to do with assignment, motivation, learning, appreciation, drill, and guidance in study are considered.

54. 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.

GEOGRAPHY

1. HUMAN GEOGRAPHY FWS. 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.

HISTORY

1. MODERN EUROPEAN HISTORY. FWS. 3 hours.
This course seeks to give the student an understanding of peoples and events which helps to clarify the present world situation. It deals with great movements, political, social, and economic, from the beginning of modern times. The development of a spirit of nationalism, rise of the middle class, economic revolutions and changing political conceptions are studied. The Spring Quarter deals with the present time by use of contemporary materials. Class discussions, reports, lectures, text book and assigned readings are used to accomplish the purposes of the course.

41, 42, 45. 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 happenings in the world, the course stresses reasons for, and backgrounds of these events. Economic and social movements as well as political problems are discussed. Current periodicals are the chief source of materials. May be repeated for credit.
A one dollar library fee will be charged each quarter.

GRAND JUNCTION, COLORADO

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.

51, 52, 53. GENERAL PSYCHOLOGY. FWS. 3 hours.
This course is designed to give the student the fundamental understanding of the causes and methods of behavior, and to give him practical suggestions for the control and improvement 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.

SOCIOLOGY

61, 62. GENERAL SOCIOLOGY. FWS. 2 hours.
A course designed to familiarize the student with basic group relationships. Various approaches are made to the study of social growth, social change, and social control.

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.

71. MARRIAGE AND THE FAMILY. S. 3 hours.
The development of marriage and the family in various selected cultures from primitive times to date; an examination of the important aspects of courtship and marriage; contemporary marital and domestic problems; changing functions of the family and the problem of adjustment to a changing society. Prerequisite: Sophomore standing or permission of the instructor.
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. 3-8 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. 2-8 hours.
Shop laboratory practice leading toward employment as a technician in the radio and sound fields. Training in radio repair and maintenance. Tools, processes, and materials of the trade in the specialized fields of Radio W ireman, Mechanic, Service man, and Technician.

T & I 21, 22, 23. MACHINE SHOP. FWS. 3-6 hours.
General work carried on in machine shops and factories. Operations of the following machinery: engine lathes, shapers, planers, milling machines, grinders, drill presses, and other machines found in machine shops. Specialization will be permitted in a particular field where the student may be trained for a definite job in industry.

T & I 31, 32, 33. AIRPLANE MECHANICS. FWS. 3-6 hours.
Elementary instruction in basic elements of aircraft engine mechanics; bench work, hand and machine tools, engine teardown, inspection, assembly; some work on engine accessories such as magnetos, generators, carburetors, propellers, pumps, governors and superchargers.

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.

SUMMER QUARTER

1948

The summer quarter will begin June 14, and end August 20, 1948. 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 chemistry, education, English composition, sophomore literature, college mathematics, psychology, social science and in other courses according to demand. Teachers will be able to take enough hours to satisfy the requirements for renewing emergency certificates.

FEES

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Matriculation</td>
<td>$5.00</td>
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<tr>
<td>Chemistry Laboratory</td>
<td>5.00</td>
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<tr>
<td>Each five week's course</td>
<td>10.00</td>
</tr>
<tr>
<td>Each ten week's course</td>
<td>15.00</td>
</tr>
<tr>
<td>Maximum fees for summer quarter courses</td>
<td>50.00</td>
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</tbody>
</table>

TUITION

<table>
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<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesa County residents</td>
<td>No charge</td>
</tr>
<tr>
<td>Non-residents</td>
<td></td>
</tr>
<tr>
<td>Under ten hours</td>
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<tr>
<td>Ten hours or more</td>
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FWS. 3-8 hours.

and employment as a tech-
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in materials of the trade in
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Chemistry Laboratory ................................ 5.00
Each five week's course ................................ 10.00
Each ten week's 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