IOWA STATE TEACHERS COLLEGE

PROGRAM OF RECITATIONS
SUMMER TERM, 1929

Recitation Periods

<table>
<thead>
<tr>
<th>Period</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>First period</td>
<td>7:30 a.m. to 8:25 a.m.</td>
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<tr>
<td>Second period</td>
<td>8:30 a.m. to 9:25 a.m.</td>
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<tr>
<td>Third period</td>
<td>9:30 a.m. to 10:25 a.m.</td>
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<tr>
<td>Fourth period</td>
<td>10:30 a.m. to 11:25 a.m.</td>
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<tr>
<td>Fifth period</td>
<td>11:30 a.m. to 12:25 p.m.</td>
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<tr>
<td>Sixth period</td>
<td>12:30 p.m. to 1:25 p.m.</td>
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<tr>
<td>Seventh period</td>
<td>1:30 p.m. to 2:25 p.m.</td>
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<tr>
<td>Eighth period</td>
<td>2:30 p.m. to 3:25 p.m.</td>
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<tr>
<td>Ninth period</td>
<td>3:30 p.m. to 4:25 p.m.</td>
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</tbody>
</table>

Enrollment and Registration

A. To students in residence during the Spring term.
1. Consult your adviser during the last week of the term or earlier, presenting for inspection the Statement of Admission to the college from the Registrar's office, the Statement of Credits accepted from other institutions, and any Term Reports that you have received. After consulting with you, the adviser will furnish you with a list of courses for which you are to register.
2. File with your adviser as early as possible during the last week of the term all necessary petitions.

B. To students registering on enrollment day.
1. Pay the required fees to the Financial Secretary.
2. Fill out the enrollment blank.
3. Secure from the Registrar a registration card and a class card, and the credentials listed under A. 1, above, if you have not already secured them.
4. Show the registration card to the doorkeeper at the gymnasium.
5. If you have not received from your adviser a list of the courses for which you are to register, present to him for inspection the items listed in A. 1, above, and receive from him a list of courses for which you are to register.
6. Present your list of courses to the instructors concerned and have them fill out the registration card and the class card.
7. Present the registration card and the class card to your adviser for approval and file with your adviser all necessary petitions not previously filed.
8. File with the Receiving Committee the approved registration card and secure an exit card.
9. Retain the approved class card. The class card is to be shown to each instructor at the first recitation after registration.
10. If your registration is not completed on enrollment day, give your name to the Receiving Committee and secure an exit card. Keep your cards for completion of your registration on the following day, and then file the completed registration card with your adviser.
C. To students registering after enrollment day.
1. Pay the required fees to the Financial Secretary.
2. Fill out the enrollment blank.
3. Secure from the Registrar a registration card and a class card.
4. Present to your adviser for inspection your credits, and secure a list of the courses for which you are to register. See the registration bulletin board for the office and the office hours of the adviser.
5. Present your list of courses to the instructors concerned and have them fill out the registration card and the class card.
6. Present the registration card and the class card to the adviser for approval and file with the adviser the approved registration card and all necessary petitions.
7. Retain the approved class card. The class card is to be shown to each instructor at the first recitation after registration.
8. Students entering late must petition for permission to make up work if full credit is desired.

D. To students desiring a change in registration.
1. Consult your adviser concerning the proposed change.
2. If the adviser approves the change, have the change authorized by the adviser.
3. Have the change card signed by the instructor or instructors concerned.
4. File the change card at the Registrar's office.
5. Any change which reduces the registration below ten recitations a week needs the approval of the dean of women or of the dean of men.
6. Applied Music (Piano, Organ, Voice, Violin, and other orchestral instruments) may not be dropped without the approval of the Committee on Registration.

Explanation of Terminology
The Arabic numerals following the name of the instructor indicate the periods during which the subject is given. Thus 1-2 means that there are two sections covering the same work, one meeting the first period and another the second period.
For description of courses see Bulletin for January, 1929. Each collegiate course is given daily for five hours credit unless other hours of work and credit are indicated. Sub-collegiate courses are given daily for twelve weeks credit, unless otherwise indicated.

ART AND MANUAL ARTS

SUB-COLLEGIATE COURSE—
Elementary Handwork, Miss Schuneman, 4.

COLLEGIATE COURSES—
Open to Freshmen and Sophomores.
Sheet Metal Work I, (2½ hrs.), Mr. Brown, daily 3.
Wood Turning, (2 hrs.), Mr. Brown, M. Tu. W. Th. 6-7.
Primary Drawing I, (2 hrs.), (Credit only on primary and kindergarten curriculums), Miss Thornton, daily 1-4; Miss Conlon, daily 1.
Primary Drawing II, (3 hrs.), (Credit only on primary and kindergarten curriculums), (Prerequisite, Primary Drawing I or equivalent preparation), Miss Thornton, daily 3-6.
Primary Handwork, (3 hrs.), (Credit only on primary and consolidated school curriculums and for those who major in normal
training high school critic work), Miss Cole, daily 3-7; Miss Conlon, daily 3; Mrs. Branagan, daily 2-7.
Drawing and Design, (3 hrs.), (Credit only on home economics curriculums), Miss Patt, daily 3.
Water Color, (2½ hrs.), (Prerequisite, Drawing I and General Design or equivalent preparation), Miss Patt, daily 7.

Open to Freshmen, Sophomores and Juniors.
Mechanical Drawing I and II (combined course), Mr. Bailey, M. W. F. 1 and 2 and Tu. Th. 6 and 7.
Mechanical Drawing I, (2 hrs.), Mr. Bailey, Tu. Th. 6 and 7.
Mechanical Drawing II, (3 hrs.), (Prerequisite, Mechanical Drawing I), Mr. Bailey, M. W. F. 1 and 2.
Mechanical Drawing III, (3 hrs.), (Prerequisite, Mechanical Drawing I and II), Mr. Bailey, M. W. F. 1 and 2.
Woodwork I and II (combined course), Mr. Palmer, M. W. F. 6 and 7 and Tu. Th. 1 and 2.
Woodwork I, (3 hrs.), Mr. Palmer, M. W. F. 6 and 7.
Woodwork II, (2 hrs.), (Prerequisite, Woodwork I), Mr. Palmer, Tu. Th. 1 and 2.
Woodwork III, (2 hrs.), (Prerequisite, Woodwork I and II), Mr. Palmer, Tu. Th. 1 and 2.
Industrial Arts Design, (2½ hrs.), (Not credit for those who took Woodwork III before June 1, 1929), Mr. Palmer, daily 4.
Wood Finishing, (2 hrs.), Mr. Palmer, Tu. Th. 5.
Drawing I, (2½ hrs.), Miss Patt, daily 2-5; Miss Conlon, daily 4-6; Mrs. Branagan, daily 4.
Drawing II, (2½ hrs.), (Prerequisite, Drawing I or equivalent preparation), Miss Schuneman, daily 1; Mrs. Branagan, daily 5.
General Design, (3 hrs.), (Not credit for those who have credit for Drawing and Design and Applied Design), Miss Schuneman, daily 2-6.

Open to Sophomores, Juniors and Seniors.
Organization and Administration of Manual Arts, (3 hrs.), (Prerequisite, Woodwork I and II and Mechanical Drawing I and II), Mr. Bailey, M. W. F. 5.
Teaching Manual Arts, (Prerequisite, Psychology I, Woodwork I and II and Mechanical Drawing I and II), Mr. Bailey, 4.
Woodwork IV, (Prerequisite, Woodwork I, II, III), Mr. Brown, daily 6 and 7.
Sheet Metal Work II, (2½ hrs.), (Prerequisite, Sheet Metal Work I or equivalent preparation), Mr. Brown, daily 3.
Commercial Illustration, (2½ hrs.), (Prerequisite, one term of drawing), Miss Cole, daily 2.
The Teaching of Art, (Prerequisite, Drawing I and II and General Design), Miss Cole, 5.

Open to Juniors and Seniors.
Architectural Drawing, (3 hrs.), (Prerequisite, Mechanical Drawing I, II, III), Mr. Bailey, M. W. F. 1 and 2.
Advanced Cabinet Making, (Prerequisite, Woodwork I, II, III, IV), Mr. Brown, daily 6 and 7.
Home Mechanics, (3 hrs.), Mr. Brown, daily 5.
Pictorial Composition, (2½ hrs.), (Prerequisite, Drawing I and II or equivalent preparation), Miss Patt, daily 7.
Drawing III, (2½ hrs.), (Prerequisite, Drawing I and II or equivalent preparation), Miss Cole, daily 2.
PSYCHOLOGY, EDUCATION, AND RURAL EDUCATION

SUB-COLLEGIATE COURSE—

Elementary Psychology, Mr. Slacks, 3.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

(Primary Methods) Language and Literature, (Credit only on primary curriculums and for those who major in normal training high school critic work), Miss Arey, 2-3.
(Primary Methods) Principles in Fundamentals, (Credit only on primary and kindergarten curriculums and for those who major in normal training high school critic work), Miss Barber, 3-4-7; Miss Smith, 1-5.
Psychology I, Mr. Brown, 2-6; Mr. Hoyt, 4; Mr. Phillips, 3-4-7; Mr. Riebe, 2-5; Mr. Wilcox, 1-2-5; Mr. Wiley, 1-5.
Elementary School Methods, (Prerequisite, Psychology I), (This course must be taken by students on the elementary teacher curriculum while taking the first term of Teaching and may not be taken by such students before that time), Mr. Todd, 4.
Management and Measurements, Mr. Buffum, 3.
Child Psychology, (Prerequisite, Psychology I), Mr. Denny, 6; Mr. Hoyt, 2-7.
Social Development, (Prerequisite, Psychology I), Mr. Riebe, 1.
Rural School Management, Mr. Slacks, 1.
Rural School Methods, Mrs. Talcott, 1-2-5; Miss Opfer, 2-4-7; Miss Acheson, 6.
Didactics I, Mr. Cram, 2-3-5; Mr. Nolte, 4-6-7.
Rural Teaching, (3 hrs.), (Credit only on the rural teacher curriculum, the consolidated school curriculum, and for those who major in normal training high school critic work or consolidated school education), (Illustrative Teaching must precede or accompany this course), Mr. Slacks, hours as arranged.

Open to Freshmen, Sophomores and Juniors. (Prerequisite, Psychology I).

Educational Tests and Measurements for Elementary Teachers, (3 hrs.), Mr. Denny, M. W. F. 1.
Mental Tests, (2 hrs.), Mr. Denny, Tu. Th. 1.
History and Principles of Education, Mr. Goetch, 1; Mr. Paul, 3-7.
Problems of Grade Teachers, (3 hrs.), Mr. Goetch, M. W. F. 3.
Project Method in Teaching, (2 hrs.), (Prerequisite, Psychology I), Mr. Todd, Tu. Th. 3.

Open to Sophomores, Juniors and Seniors on Degree Curriculums and on the Art, Manual Arts, Home Economics, Commercial Teacher and Public School Music Curriculums.

Psychology of Adolescence, (Prerequisite, Psychology I), Mr. Charles, 1.

Open to Sophomores, Juniors and Seniors.

History of Primary Education, (3 hrs.), (Prerequisite, Psychology I), Mr. Walters, M. W. F. 2.
Primary Educational Classics, (2 hrs.), (Prerequisite, Psychology I), Mr. Walters, Tu. Th. 2.
History of American Education, (Prerequisite, Psychology I), Mr. Hollingsworth, 3.
History of Education, (Prerequisite, Psychology I), Mr. Hollingsworth, 4-5.
The Junior High School, (3 hrs.), (Prerequisite, Psychology I), Mr. Todd, M. W. F. 3.
The Consolidated School and Country Life, Mr. Eells, 1-5.

Open to Juniors and Seniors.

Philosophy of Education, (Prerequisite, Psychology I), Mr. Walters, 4-7.
Literature for Primary Children, (Credit only for those who major in primary or kindergarten education), Miss Arey, 6.
School Administration and Supervision, (Prerequisite, Psychology I), Mr. Buffum, 1-5; Mr. Todd, 7.
The High School, (Prerequisite, Psychology I), Mr. Charles, 2-6.
Educational Tests and Measurements for High School Teachers, (Prerequisite, Psychology I), Mr. Denny, 2.
Problems of Superintendents and Principals, (2 hrs.), (Prerequisite, Psychology I), Mr. Goetch, Tu. Th. 3.
Social Psychology, (Prerequisite, Psychology I), Mr. Paul, 4.
The Primary Curriculum, (Credit only for those who major in primary or kindergarten education), Miss Smith, 2.
Educational Psychology for High School Teachers, (Prerequisite, Psychology I), Mr. Wiley, 2.
Consolidated School Administration, Mr. Eells, 2.
Special Methods in the Common Branches, (Prerequisite, Psychology 10 hours), Miss Acheson, 3.

ENGLISH

COLLEGIATE COURSES—

Open to Freshmen only. (Prerequisite for all other courses in English and Speech).

English I, Miss Slattery, Mr. Halvorson, 1; Miss Slattery, Miss Mote, 2; Miss Hunter, Miss Lyon, 4; Mr. Halvorson, Miss Tuttle, 6; Miss Hunter, Miss Lyon, 7.

Open to Freshmen and Sophomores. (Prerequisite, English I).

Elements of Literature, Mr. Lynch, 5; Mr. Fagan, 1; Miss Hunter, 3; Miss Lyon, 2.
Chief American Poets, (3 hrs.), Mr. Halvorson, M. W. F. 3.
American Prose Writers, (2 hrs.), Mr. Halvorson, Tu. Th. 3.

Open to Freshmen, Sophomores and Juniors. (Prerequisite, English I).

Description and Narration, Miss Terry, 7.
Oral Interpretation I, Miss Strayer, 2-5; Miss Tuttle, 1.
Oral Interpretation II, (Prerequisite, Oral Interpretation I or equivalent preparation), Miss Tuttle, 3.
Public Speaking, Mr. Brindley, 3; Miss Mote, 4-7.

Open to Sophomores, Juniors and Seniors. (Prerequisite, English I).

Shakespeare, Mr. Lynch, 3.
Victorian Poetry, (3 hrs.), (Not credit for those who have credit
for Tennyson and Browning), Miss Slattery, M. W. F. 5.
Victorian Prose, (2 hrs.), Miss Slattery, Tu. Th. 5.
Play Production I, (Prerequisite, Oral Interpretation I and II or equivalent preparation), Miss Strayer, 3.
Theory of Debating, (2 hrs.), Mr. Brindley, Tu. Th. 1.
Debating, (3 hrs.), Mr. Brindley, M. W. F. 1.

Open to Juniors and Seniors. (Prerequisite, English I).

The Teaching of English, Mr. Lynch, 1.
The Essay, Mr. Fagan, 2.
History of English Literature, Mr. Fagan, 6.
The Technique of Poetry, Miss Terry, 2.
Advanced Story Writing, (Prerequisite, Description and Narration, except that students who took English I previous to the summer term, 1927, may take this course without having taken Description and Narration), Miss Terry, 4.
Advanced Public Speaking, (Prerequisite, Public Speaking), Mr. Brindley, 7.

HOME ECONOMICS

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Textiles, (2 hrs.), Miss Ziller, M. d and M. W. 7; Tu. 6 and Tu. Th. 7.

Open to Freshmen, Sophomores and Juniors.

Home and Community Hygiene, (3 hrs.), Miss Leggett, M. W. F. 4-7.
Food Preparation II, (Prerequisite, Chemistry X and XI and Food Preparation I or equivalent preparation), Miss Overn, daily 2 and M. W. F. 1.
Nutrition, (3 hrs.), (Not credit on a home economics curriculum or for those who have had Food Preparation I and II), Miss Overn, M. W. F. 5.
The School Lunch, (3 hrs.), (Not credit on a home economics curriculum), Miss Dillon, daily 2.
Clothing II, (4 hrs.), (Prerequisite, Clothing I or equivalent preparation), Miss Dillon, M. W. F. 7 and 8 and Th. 8.

Open to Sophomores, Juniors and Seniors.

House Planning, (3 hrs.), (Prerequisite, Drawing and Design), Miss Leggett, M. W. F. 2.
Child Care, (2 hrs.), Miss Leggett, Tu. Th. 3-6.
Home Nursing, (2 hrs.), Miss Leggett, Tu. Th. 7.
Costume Design, (3 hrs.), (Prerequisite, Applied Design), Miss Ziller, M. W. 1 and 2 and F. 2.
Millinery, (2 hrs.), (Prerequisite, Applied Design or equivalent preparation), Miss Ziller, Tu. Th. 1 and 2.
House Furnishing and Decoration, (3 hrs.), (Prerequisite, Applied Design and House Planning), Miss Ziller, M. W. F. 4.
Food Marketing, (2 hrs.), Miss Overn, Tu. Th. 8.

Open to Juniors and Seniors.

Methods in Home Economics, (3 hrs.), Miss Leggett, M. W. F. 3.
Meal Planning, (3 hrs.), (Prerequisite, Food Preparation I and II), Miss Overn, Tu. Th. 3 and 4 and F. 4.
Food and Dietetics, (3 hrs.), (Prerequisite, Food Preparation I and II. Chemistry XIII must precede or accompany this course), Miss Overn, M. W. 6 and 7 and F. 6.

Home Management, (Prerequisite, Food Preparation I and II. This course must be preceded or accompanied by Food Marketing and Meal Planning), Miss Dillon, daily 1 and hours as arranged.

LATIN AND GERMAN

COLLEGIATE COURSES—

Open to Freshmen, Sophomores and Juniors.

Elementary Latin I, (for beginners and for review of first-year Latin), Mr. Merchant, 1.
Elementary Latin II, (following one year of high school Latin or equivalent preparation), Mr. Merchant, 3.
Elementary Latin IX, Cicero's Orations I, (following two years of high school Latin or Elementary Latin III or equivalent preparation), Mr. Schaefer, 5.
Latin I, Cicero's Cato Major and Latin Composition, (Prerequisite, four years of high school Latin or other preparation approved by head of department), Mr. Merchant, 2.
German I, Mr. Schaefer, 1.
German II, Miss Doffing, 3.
German III, Short Stories, (Prerequisite, one year of high school German or equivalent preparation), Miss Doffing, 4.

Open to Sophomores, Juniors and Seniors and to Freshmen who have had two years of high school German or equivalent preparation.

German IV, Historical Prose, (Prerequisite, two years of high school German or equivalent preparation), Miss Doffing, 6.
German V, Schiller’s Dramas, (Prerequisite, German IV or equivalent preparation), Mr. Schaefer, 2.

Open to Sophomores, Juniors and Seniors.

German VIII, Goethe’s Hermann und Dorothea, (2 hrs.), (Prerequisite, German IV or equivalent preparation), Miss Doffing, Tu. Th. 2.
German X, Composition and Advanced Grammar, (3 hrs.), (Prerequisite, German IV or equivalent preparation), Miss Doffing, M. W. F. 2.

Open to Juniors and Seniors.

Latin XII, Teachers' Course in Caesar, (Prerequisite, Latin I, II, III or equivalent preparation), Mr. Merchant, 7.

MATHEMATICS AND COMMERCIAL EDUCATION

SUB-COLLEGIATE COURSES—

First Plane Geometry, Mr. Daugherty, 1.
First Penmanship, Mr. Cummins, 3; Miss Davis, 2-4-5-7.
Advanced Penmanship, Mr. Cummins, 1.
First Typewriting, Miss Radell, 3; Miss Bronson, 4-7.
Second Typewriting, Miss Bronson, 5.
Third Typewriting, Miss Radell, 2.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Principles of Elementary Mathematics, (Credit only on the kindergartfen, primary, elementary teacher, and consolidated school curriculums, and for those who major in normal training high school critic work and for those who major or minor in mathematics), Mr. Condit, 2; Mr. Wester, 1-4; Miss Van Dyke, 3-5-7.
Mathematics A, (Not credit for those who have more than one unit of entrance credit in algebra), Mr. Daugherty, 7.
Accounting A, (Not credit for those who have entrance credit in bookkeeping), Mr. Skar, 6.
Shorthand I, (Credit only on commercial curriculums), Miss Bronson, 2.

Open to Freshmen, Sophomores and Juniors.

Mathematics I, Mr. Daugherty, 3; Mr. Watson, 1.
Mathematics II, (Prerequisite, Mathematics I), Mr. Watson, 6.
Analytical Geometry, (Prerequisite, Mathematics II), Mr. Daugherty, 5.
Accounting I, (Prerequisite, Accounting A or equivalent preparation), Mr. Cummins, 2.
Accounting II, Mr. Cummins, 6.

Open to Sophomores, Juniors and Seniors.

Shorthand III, (Credit only on commercial curriculums), Miss Radell, 6.
Calculus II, Mr. Condit, 3.
Statistical Measurement, (3 hrs.), Mr. Wester, M. W. F. 7.
Modern Geometry, (3 hrs.), Mr. Watson, M. W. F. 2.
Advertising, (2 hrs.), Mr. Mach, Tu. Th. 1.
Commercial Correspondence, (3 hrs.), Mr. Mach, M. W. F. 1.
Machine Accounting, (1 hr.), (Prerequisite, Elementary Bookkeeping), Mr. Mach, M. 6 and 1 hour laboratory as arranged.
Commercial Law, Mr. Skar, 1.
Business Publications, (1 hr.), Mr. Skar, Tu. 7 and 1 hour laboratory as arranged.
Secretarial Training, (3 hrs.), Miss Radell, M. W. F. 7.

Open to Juniors and Seniors.

Teaching of Secondary Mathematics, (3 hrs.), (Prerequisite, two courses in college mathematics), Mr. Condit, M. W. F. 4.
Theory of Equations, (5 hrs.), (Prerequisite, Calculus I), Mr. Wester, 6.
History of Mathematics, (2 hrs.), (Prerequisite, two courses in college mathematics), Mr. Watson, Tu. Th. 4.
Salesmanship, (2 hrs.), Mr. Mach, Tu. Th. 4.
Marketing, (3 hrs.), Mr. Mach, M. W. F. 4.
Teaching of Commercial Subjects, (Previous training in shorthand, typewriting, and bookkeeping required), Mr. Skar, 3.
MUSIC

SUB-COLLEGIATE COURSE—

Elementary Music, Mrs. Michael, 3.

COLLEGIATE COURSES—

Open to Freshmen, Sophomores and Juniors.

First Music, (2 hrs.), (Not credit on the public school music curricula), Mr. Fullerton, daily 2-4; Miss Mayfield, daily 5; Mr. Wolfe, daily 3; Miss Carlsen, daily 3; Mr. Hays, daily, 1; Mrs. Michael, daily 6.
Music I, (3 hrs.), Miss Mayfield, M. W. F. 3.
Sight Singing, Miss Carlsen, 5.
Music for Upper Grades, (3 hrs.), (Not credit on the public school music curricula), (Prerequisite, First Music or equivalent preparation), Mr. Wolfe, daily 1; Mr. Hays, daily 2.
Primary and Kindergarten Music, (3 hrs.), (Not credit on the public school music curricula), (Prerequisite, First Music or equivalent preparation), Miss Mayfield, daily 4; Mrs. Schmidt, daily 2.

Open to Sophomores, Juniors and Seniors.

Conducting, (2 hrs.), Mr. Fullerton, Tu. Th. 3.
Music Methods I, (2 hrs.), Miss Carlsen, Tu. Th. 1.
Harmony I, (3 hrs.), Miss Ruegnitz, M. W. F. 2.
Harmony II, (3 hrs.), Miss Ruegnitz, M. W. F. 5.
History of Music I, (2 hrs.), Miss Freeman, Tu. Th. 2.
History of Music II, (3 hrs.), Miss Freeman, M. W. F. 7.

Open to Juniors and Seniors.

Harmony IV, (3 hrs.), Miss Ruegnitz, M. W. F. 1.
History of Music III, (2 hrs.), Miss Freeman, Tu. Th. 4.

NATURAL SCIENCE

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Nature Study, (Credit only on the kindergarten, primary, elementary teacher and consolidated school curricula, and for those who major in normal training high school critic work), Miss Gilbert, daily 1 and Tu. Th. 2; daily 3 and Tu. Th. 4; daily 6 and M. W. 7; Mr. Clark, daily 2 and M. W. 1.
Physiology I (a), Mr. Abbott, daily 3 and Tu. Th. 2.
Commercial and Industrial Geography, (Credit only on commercial curriculums and for those who major in earth science), Mr. Cable, 5.
Open to Freshmen, Sophomores and Juniors.

Elements of Geography I, Mr. Halverson, 1-6; Miss Uttley, 2-4-7.
Botany I—General College Botany, Mr. Clark, daily 3 and M. W. 4.
Botany IV—Trees and Shrubs, (3 hrs.), Mr. Clark, W. F. 7 and 8 and M. 7.
Soils, (3 hrs.), Mr. Scott, W. 6 and 7 and M. F. 7.
Horticulture, (2 hrs.), Mr. Scott, Tu. 6 and 7 and Th. 7.
Dairy Cattle, (3 hrs.), Mr. Rath, W. 1 and 2 and M. F. 1.
Swine, (2 hrs.), Mr. Rath, Th. 1 and 2 and Tu. 1.
Biology I (a), Mr. Abbott, daily 7 and Tu. Th. 8.

Botany I - General College Botany, Mr. Clark, daily 3 and M. W. 4.
Botany IV—Trees and Shrubs, (3 hrs.), Mr. Clark, W. F. 7 and 8 and M. 7.
Soils, (3 hrs.), Mr. Scott, W. 6 and 7 and M. F. 7.
Horticulture, (2 hrs.), Mr. Scott, Tu. 6 and 7 and Th. 7.
Dairy Cattle, (3 hrs.), Mr. Rath, W. 1 and 2 and M. F. 1.
Swine, (2 hrs.), Mr. Rath, Th. 1 and 2 and Tu. 1.
Biology I (a), Mr. Abbott, daily 7 and Tu. Th. 8.

Open to Sophomores, Juniors and Seniors.

Hygiene and Sanitation (a), Mr. Rath, daily 6 and Tu. Th. 7.
Astronomy I, Mr. Cable, 1.
Climatology, Mr. Cable, 3.
Geography of Europe, Mr. Halverson, 3.
Botany III—Plant Taxonomy, (Prerequisite, entrance credit in botany or General College Botany), Mr. Lantz, daily 1 and Tu. Th. 2.
Organic Evolution, (2 hrs.), Mr. Lantz, Tu. Th. 4.
Heredity, (3 hrs.), Mr. Lantz, M. W. F. 4.
Bacteriology, (3 hrs.), Mr. Lantz, W. F. 7 and 8 and M. 7.
Marketing Agricultural Products, (3 hrs.), Mr. Scott, M. W. F. 2.
Farm Poultry, (2 hrs.), Mr. Scott, Tu. 1 and 2 and Th. 2.
Insects and Man, (3 hrs.), (Prerequisite, Biology I), Mr. Abbott, M. W. F. 5 and M. 4.

Open to Juniors and Seniors.

Farm Crops, Mr. Scott, daily 4 and Tu. Th. 3.
Feeds and Feeding, (3 hrs.), Mr. Rath, M. W. F. 3.
Principles of Breeding, (2 hrs.), Mr. Rath, Tu. Th. 3.

ORCHESTRAL MUSIC

Open to Sophomores, Juniors and Seniors.

Orchestra Conducting I, (1 hr.), (Prerequisite, 3 hours of college credit in applied music other than voice), Mr. Searight, Tu. Th. 2-6.
Orchestra Conducting II, (1 hr.), (Prerequisite, Orchestra Conducting I or equivalent preparation), Mr. Searight, Tu. Th. 7.
Orchestra Conducting III, (1 hr.), (Prerequisite, Orchestra Conducting II or equivalent preparation), Mr. Searight, Tu. Th. 8.
Normal Course in Violin I, (1 hr.), (Students taking this course must possess skill in violin work), Miss Possner, Tu. Th. 7.

Open to students in Cello.

Cello Ensemble, Mr. Searight, Sat. 2-3.

Open to students in Bass.

Bass Ensemble, Mr. Searight, Tu. Th. 1-3-4.

Open to advanced students in Piano, Violin, Viola, Cello, Bass and Harp.

String Ensemble, Mr. Kurtz, Tu. Th. 7-8; hours to be arranged.
Open to Public School Music Students.

First Supervisor's Violin, (For drill credit, twice weekly), Miss Possner, Tu. Th. 1-3-4-5.

Open to students of reed and brass instruments.

Band Masters Course, (For drill credit, twice weekly), (Prerequisite, private instruction on a wind instrument for at least thirty-six weeks or brass and wood-wind ensemble for thirty-six weeks. One private lesson per week on one of the fundamental reed or brass instruments must accompany this course), Tu. Th. 3.

Wood and Brass Ensemble, .........., M. Tu. Th. 3; M. Tu. F. 4-8; M. Tu. Th. F. 6; M. Th. 9; hours to be arranged.

Private Instruction, (1 hr.), hours to be arranged.

Violin, Mr. Kurtz; Miss Possner.
Viola, Mr. Kurtz.
Brass Instruments, Mr. Ball.
Cello, Mr. Searight.
Bass, Mr. Searight.

Notes:
1. The College Orchestra, Mr. Kurtz, director, M. W. F. 8.
2. The College Band, ................., director, Tu. Th. 8.
4. Student Orchestra Club, Mr. Searight, Tu. 8.

PHYSICAL EDUCATION

MEN

COLLEGIATE COURSES—

Open to Sophomores, Juniors and Seniors.

Theory of Baseball III, (2 hrs.), Mr. Whitford, daily 9.
Theory of Track III, (2 hrs.), Mr. Dickinson, daily 4.
Theory of Football IV, (2 hrs.), Mr. Bender, daily 8.
Theory of Basketball IV, (2 hrs.), Mr. Mendenhall, daily 7

Open to Juniors and Seniors.

Theory of Mass Athletics, (2 hrs.) Mr. Whitford, daily 4.
Theory of Swimming, (2 hrs.), Mr. Dickinson, daily 6.
Theory of Gymnastics, (2 hrs.), Mr. Bender, daily 2.
Theory of Wrestling, (2 hrs.), Mr. Bender, daily 3.

PHYSICAL TRAINING WORK—

Beginning Swimming, Mr. Dickinson, M. W. F. 3.
Golf, Mr. Dickinson, M. W. F. 8.
Recreational Golf, Mr. Dickinson, 9.
Intra-mural Baseball, Mr. Whitford, 10 and 11.
Recreational Swimming, Mr. Bender, 9.
Tennis, Mr. Mendenhall, M. W. F. 8; Tu. Th. 8.
Recreational Tennis, Mr. Mendenhall, 9 and 10.
Boy Scout Leadership, Mr. Buffum, Th. 3:30-5:30.
WOMEN

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Play and Playground, (3 hrs.), (Not credit for those who major in physical education), Miss White, M. W. F. 4.

Open to Freshmen, Sophomores and Juniors.

First Aid to the Injured, (2 hrs.), Dr. Mead, Tu. Th. 1.
Anatomy I, Dr. Mead, 2.

Open to Sophomores, Juniors and Seniors.

Physical Education I, (Credit only for those who major in physical education or in coaching and athletics), Miss Wild, 3.
Physical Education II, (Credit only for those who major in physical education or in coaching and athletics), Miss White, 2.
Physical Education III, (3 hrs.), Miss White, M. W. F. 7.
Physical Education IV, (2 hrs.), Miss Humiston, Tu. Th. 7.
Physical Education VI, (2 hrs.), Miss Wild, Tu. Th. 5.
Club Craft and Leadership, (2 hrs.), Miss Humiston, Tu. Th. 4.

The following class work correlates with major subjects:

Gymnastics, Miss Wild, M. W. 4. (Physical Education I).
Dancing, Miss Wild, W. 9. (Physical Education VI).
Games, Miss White, Tu. Th. 4. (Physical Education II).
Basketball, Miss White, Tu. Th. 7. (Physical Education III).
Physical Education IV Technique and Practice, Miss Humiston, M. W. 7. (Physical Education IV).

GENERAL CLASS WORK IN PHYSICAL TRAINING FOR WOMEN IS TENTATIVELY PLANNED AS FOLLOWS:

Beginning Dancing, Miss Moore, M. W. 7.
Social Dancing, Miss Michel, Tu. Th. 10.
National Dancing, Miss Moore, Tu. Th. 6.
Folk Dancing, Miss Moore, Tu. Th. 7; Tu. Th. 10.
Clogging, Miss Moore, M. W. 8.
Basketball, Miss White, Tu. Th. 7.
Tennis, Miss Humiston, M. W. 2; Tu. Th. 8; Miss Michel, M. W. 4; Miss Moore, Tu. Th. 3.
Advanced Tennis, Miss Michel, Tu. Th. 9.
Handball, Miss Humiston, M. W. 5.
Beginning Swimming, Miss Humiston, M. W. 3; M. W. 4; Miss Michel, Tu. Th. 2; Tu. Th. 7; Miss Moore, M. W. 2; M. W. 6.
First Intermediate Swimming, Miss Michel, Tu. Th. 4; M. W. 7.
Advanced Swimming, Miss Michel, Tu. Th. 8.
Life Saving, Miss Moore, M. W. 9.
Golf, Miss Humiston, Tu. Th. 9 (3:40); Tu. Th. 9 (4:10); Tu. Th. 10.
Physical Training for Primary Grades, Miss Moore, Tu. Th. 8 and Th. 9.
Canoeing, (six weeks credit), Miss Humiston, Sat. A. M. 9:00-11:00, first six weeks; Miss Michel, Sat. A. M. 9:00-11:00, first six weeks.

Note: The courses in Physical Training for Primary Grades, Physical Training for Rural Schools, and Physical Training for Elementary Grades are similar to and take the place of Third Physical Training.

PHYSICS AND CHEMISTRY

SUB-COLLEGIATE COURSES—

First Physics, Mr. Read, daily 6 and Tu. Th. 5.
Second Physics, Mr. Read, daily 7 and Tu. Th. 5.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Physics XIII—Everyday Physical Science, (Credit only on kindergarten, primary, elementary teacher, and consolidated school curriculums), Mr. Begeman, M. Tu. W. F. 1 and Tu. Th. 2 or 3.

Open to Freshmen, Sophomores and Juniors.

Physics I—Mechanics, (3 hrs.), (Not credit for those who have had Physics A), (Prerequisite, high school physics or equivalent preparation), Mr. Kadesch, M. W. F. 3.
Physics II—Laboratory Physics in Mechanics, (2 hrs.), (Not credit for those who have had Physics A), Mr. Kadesch, Tu. Th. 2 and 3.
Physics V—Heat, Electricity and Magnetism, (3 hrs.), (Prerequisite, Physics I or Physics A and B or equivalent preparation), Mr. Kadesch, M. W. F. 6.
Physics VI—Laboratory Physics in Heat, Electricity and Magnetism, (2 hrs.), (Prerequisite, Physics I and II or Physics A and B or equivalent preparation), Mr. Kadesch, Tu. Th. 6 and 7.
General Inorganic Chemistry I, Mr. Getchell, daily 3 and M. W. 4.
Chemistry X—General Inorganic Chemistry, Mr. Getchell, daily 2 and Tu. Th. 1.

Open to Sophomores, Juniors and Seniors.

Physics VII—Advanced Mechanics, (3 hrs.), (Prerequisite, Physics I and II or equivalent preparation), Mr. Begeman, hours as arranged.
Physics VIII—Advanced Course in Light, (3 hrs.), (Prerequisite, Physics III and IV or equivalent preparation), Mr. Kadesch, hours as arranged.
Chemistry IV—Organic Chemistry, (Prerequisite, General Inorganic Chemistry I and II), Mr. Read, daily 4 and Tu. Th. 3.
Chemistry V—Quantitative Analysis (Gravimetric) (a), (3 hrs.), (Prerequisite, Chemistry III), Mr. Getchell, M. W. F. 5 and 6.
Chemistry V—Quantitative Analysis (Gravimetric) (b), (2 hrs.), (Course V (a) must precede or accompany this course), Mr. Getchell, Tu. Th. 5 and 6.
Open to Juniors and Seniors.

Physics X—Teachers' Course in Physics, (Prerequisite, 10 hours of college physics. For teachers of physics this prerequisite could be set aside during the summer term), Mr. Begeman, Tu. Th. 5 and laboratory as arranged.

Physics IX—Advanced Course in Electricity and Magnetism, (Prerequisite, Physics V and VI or equivalent preparation), Mr. Kadesch, hours as arranged.

RELIGIOUS EDUCATION

COLLEGIATE COURSES—

Open to Freshmen, Sophomores and Juniors.

The Synoptic Life of Jesus, (2 hrs.), Miss Hatch, Tu. Th. 4-5; Dr. Hanson, Tu. Th. 2.

Open to Sophomores, Juniors and Seniors.

Origin of Biblical Literature, (3 hrs.), Miss Hatch, M. W. F. 4-5. The Life and Letters of Paul, (3 hrs.), (Prerequisite, The Synoptic Life of Jesus or History and Teaching of the Bible, New Testament), Miss Hatch, M. W. F. 3. Technique of Instruction in Religious Education, (2 hrs.), Miss Hatch, Tu. Th. 3; Dr. Hanson, Tu. F. 3. Rise and Organization of Hebrew History, (3 hrs.), Dr. Hanson, M. W. F. 2. Biblical Ethics, (3 hrs.), Dr. Hanson, M. W. F. 3.

ROMANCE LANGUAGES

COLLEGIATE COURSES—

Open to Freshmen, Sophomores and Juniors.

French I, Miss Dyer, 2. French II, Mr. Lillehei, 2. French III, (Prerequisite, one year of high school French or equivalent preparation), Mr. Lillehei, 6. Spanish I, Mr. Haddox, 6. Spanish II, Mr. Haddox, 2. Spanish III, (Prerequisite, one year of high school Spanish or equivalent preparation), Mr. Haddox, 7.

Open to Sophomores, Juniors and Seniors and to Freshmen who have had two years of high school French or equivalent preparation.

French IV (a), (3 hrs.), (Prerequisite, two years of high school French or equivalent preparation), Mr. Lillehei, M. W. F. 3. French IV (b), (2 hrs.), (Prerequisite, two years of high school French or equivalent preparation), Mr. Lillehei, Tu. Th. 3. French V (a), (3 hrs.), Miss Dyer, M. W. F. 1. French V (b), (2 hrs.), Miss Dyer, Tu. Th. 1. French VI (a), (3 hrs.), Miss Dyer, M. W. F. 5. French VI (b), (2 hrs.), Miss Dyer, Tu. Th. 5.
Open to Sophomores, Juniors and Seniors and to Freshmen who have had two years of high school Spanish or equivalent preparation.

Spanish IV (a), (3 hrs.), (Prerequisite, two years of high school Spanish or equivalent preparation), Mr. Haddox, M. W. F. 3.
Spanish IV (b), (2 hrs.), (Prerequisite, two years of high school Spanish or equivalent preparation), Mr. Haddox, Tu. Th. 3.

Open to Juniors, Seniors and to Sophomores who have had French IV, V, VI, or equivalent preparation.

French VII (a), (3 hrs.), Miss Dyer, M. W. F. 4.
French VII (b), (2 hrs.), Miss Dyer, Tu. Th. 4.

SOCIAL SCIENCE

SUB-COLLEGIATE COURSE—

Civics of Iowa and the United States, Miss Robinson, 7.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Rural Sociology, Mr. Partington, 1-4-7; Mr. Brown, 3.
American History I, Mr. Gemmill, 1; Miss Riggs, 2; Mr. Wellborn, 7; Miss Robinson, 2-3-6.
European History I, Miss Riggs, 5.

Open to Freshmen, Sophomores and Juniors.

Parliamentary Law and Practice, (1 hr.), Mr. Thompson, Tu. 2; F. 7.
Principles of Economics I, Miss Hunter, 1-4.
American Government, Mr. Robinson, 3-6; Mr. Erbe, 2-7; Mr. Brown, 1-5; Mr. Gemmill, 4-5.
History of Iowa, (2 hrs.), Mr. Wallace, Tu. Th. 4.

Open to Sophomores, Juniors and Seniors.

The Family (Applied Sociology), (3 hrs.), Mr. Thompson, M. W. F. 2.
Corporation Finance and Investments, Mr. Thompson, 4.
General Sociology, Mr. O’Neill, 2-5.
Money and Banking, Mr. O’Neill, 3.
State Government and Administration, (3 hrs.), Mr. Erbe, M. W. F. 3.
Local Government and Problems, (2 hrs.), Mr. Erbe, Tu. Th. 3.
American History II, Mr. Wallace, 1-6.
Diplomatic History of the United States, Mr. Wellborn, 4.

Open to Juniors and Seniors.

Crime and Poverty, Miss Hunter, 6.
Municipal Government, Mr. Robinson, 2.
Recent European History, Miss Riggs, 3.
History of the West, Mr. Wellborn, 1.
TEACHING

COLLEGIATE COURSES—

Illustrative Teaching, (Prerequisite, Psychology I, except that students on the two year home economics curriculum may take Illustrative Teaching while taking Psychology I, and those on the one year rural teacher curriculum may take Illustrative Teaching after the completion of course I or II or III in Rural Education), Mr. Jackson, M. W. F. 3-4.

Open to Freshmen and Sophomores.

Primary Illustrative Teaching, (2 hrs.), (Prerequisite, Psychology I), (Credit on the primary and kindergarten curriculums only), Miss Rait, M. Tu. W. Th. 4.

Open to Sophomores, Juniors and Seniors.

Kindergarten Theory for Primary Teachers, (2 hrs.), (Prerequisite, 15 hours in psychology and education), (Credit on the primary curriculums only), Miss Waters, M. Tu. W. Th. 2.
Kindergarten Teaching and Criticism under Critic Supervision, (Prerequisite, 10 hours in Psychology and Education, Kindergarten Theory I, II, III), hours as arranged.
Kindergarten Conference, (Required as part of Kindergarten Teaching and Criticism), Th. 8, supervisors as arranged.
Primary Teaching and Criticism under Critic Supervision, (Prerequisite, Primary Illustrative Teaching and 10 hours in psychology and education), hours as arranged.
Primary Conference, (Required as part of Primary Teaching and Criticism), Tu. Th. 8, supervisors as arranged.
Teaching under Critic Supervision, (Prerequisite, 10 hours in psychology and education and credit for Illustrative Teaching except that students on the two year home economics curriculum may take Teaching after the completion of Psychology I and Illustrative Teaching), hours as arranged.
Conference, (Required as part of Teaching), Th. 8, supervisors as arranged.