Iowa State Teachers College Program of Recitations, Summer 1930

Iowa State Teachers College

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IOWA STATE TEACHERS COLLEGE

PROGRAM OF RECITATIONS
SUMMER TERM, 1930

ENROLLMENT AND REGISTRATION
Wednesday, June 4th

Order of Enrollment for First Year Students—
Group 1, A to L inclusive 7:00 a.m. to 9:00 a.m.
Group 2, M to Z inclusive 9:00 a.m. to 11:00 a.m.

All first year students whether in the first, second, or third term are required to report at the Library for Freshmen tests on Wednesday afternoon. Students whose last names begin with the letters A to L inclusive will report at 1:00 p.m.; M to Z inclusive at 3:00 p.m. A penalty of $2.00 is charged for failure to report.

Order of Enrollment for Upper Classmen—
Group 1, A to L inclusive 1:00 p.m. to 2:30 p.m.
Group 2, M to Z inclusive 2:30 p.m. to 4:00 p.m.

RECITATION PERIODS

First period 7:30 a.m. to 8:25 a.m.
Second period 8:30 a.m. to 9:25 a.m.
Third period 9:30 a.m. to 10:25 a.m.
Fourth period 10:30 a.m. to 11:25 a.m.
Fifth period 11:30 a.m. to 12:25 p.m.
Sixth period 12:30 p.m. to 1:25 p.m.
Seventh period 1:30 p.m. to 2:25 p.m.
Eighth period 2:30 p.m. to 3:25 p.m.
Ninth period 3:30 p.m. to 4:25 p.m.

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, a blank for the registration statement, 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. Fill out the registration statement.

9. File with the receiving committee the approved registration card and the registration statement and secure an exit card.

10. Retain the approved class card. The class card is to be shown to each instructor at the first recitation after registration.

11. 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, a class card, and a blank for the registration statement.

4. Present to your adviser for inspection your statements of credit 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, the registration statement, 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. If a change reduces the student’s registration below 10 hours the student must secure the approval of the dean of women or the dean of men.

6. Applied Music (Piano, Organ, Voice, Violin, and other orchestral instruments) may not be dropped without the approval of the dean of women or the dean of men.

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, 1930. Each
collegiate course is given daily for five hours credit unless other
hours of work and credit are indicated. Drill courses are given
daily for twelve weeks credit, unless otherwise indicated.

ART AND MANUAL ARTS

DRILL COURSE—

Elementary Handwork, Miss Green, 4.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Sheet Metal Work I, (2½ hrs.), Mr. Brown, daily 4.
Wood Turning, (2 hrs.), Mr. Brown, M. Tu. W. Th. 6-7.
Primary Drawing, (2½ hrs.), (Credit only on the primary,
kindergarten, and consolidated school curriculums), (Prereq-
quisite, Drawing I), Miss Thornton, daily 3-6; Miss Conlon,
daily 2.

Water Color, (2½ hrs.), (Prerequisite, Drawing I and General
Design or equivalent preparation), Miss Patt, daily 5.

Primary Industrial Arts, (3 hrs.), (Credit only on the primary
and consolidated school curriculums and for those whose
major is normal training high school critic work), Miss
Schuneman, daily 4-6; Miss Cole, daily 2-5; Mrs. Branagan,
daily 2-7; Miss Green, daily 6.

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.

Industrial Arts Design, (2½ hrs.), (No credit for those who
took Woodwork III before June 1, 1929), Mr. Brown, daily 3.

Woodwork I and II (combined course), Mr. Schmidt, Tu. Th.
1 and 2 and M. W. F. 6 and 7.

Woodwork I, (3 hrs.), Mr. Schmidt, M. W. F. 6 and 7.
Woodwork II, (2 hrs.), (Prerequisite, Woodwork I), Mr.
Schmidt, Tu. Th. 1 and 2.

Woodwork III, (2 hrs.), (Prerequisite, Woodwork I and II),
Mr. Schmidt, Tu. Th. 1 and 2.

Wood, (2 hrs.), Mr. Schmidt, Tu. Th. 5.

Drawing I, (2½ hrs.), Miss Thornton, daily 1-4; Miss Patt,
daily 3-7; Miss Conlon, daily 5-7; Mrs. Branagan, daily 4;
Miss Green, daily 1-3.

Drawing II, (2½ hrs.), (Prerequisite, Drawing I or equivalent
preparation), Miss Schuneman, daily 2; Mrs. Branagan, daily
5.

Applied Arts I, (3 hrs.), (Prerequisite, General Design or equi-
valent preparation), Miss Patt, daily 2.

General Design, (3 hrs.), (No credit for students who have
credit for Drawing and Design and Applied Design), Miss
Schuneman, daily 1; Miss Conlon, daily 3.
Open to Sophomores, Juniors, and Seniors.

Teaching Manual Arts, (Prerequisite, Psychology I, Woodwork I and II, and Mechanical Drawing I and II), Mr. Bailey, 4.
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.
Sheet Metal Work II, (2½ hrs.), (Prerequisite, Sheet Metal Work I or equivalent preparation), Mr. Brown, daily 4.
Woodwork IV, (Prerequisite, Woodwork I, II, III), Mr. Brown, daily 6 and 7.
The Teaching of Art, (Prerequisite, Drawing I and II and General Design), Miss Cole, 3.
Commercial Illustration, (2½ hrs.), (Prerequisite, one term of drawing), Miss Cole, daily 7.

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. Schmidt, daily 3.
Advanced Design, (2½ hrs.), (Prerequisite, General Design or equivalent preparation), Miss Patt, daily 5.
Drawing III, (2½ hrs.), (Prerequisite, Drawing I and II or equivalent preparation), Miss Cole, daily 7.

PSYCHOLOGY, EDUCATION, AND RURAL EDUCATION

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Psychology I, Mr. Brown, 2-7; Mr. Finkenbinder, 1-4-6; Mr. Hoyt, 3; Mr. Phillips, 3-4-7; Mr. Wilcox, 5; Mr. Wiley, 1-2.
Primary Methods I, Principles in Fundamentals, (Credit only on the primary and kindergarten curriculums and for those whose major is normal training high school critic work), Miss Barber, 1-4-5; Miss Smith, 2-6.
Primary Methods II, Language and Literature, (Credit only on the primary curriculums and for those whose major is normal training high school critic work), Miss Arey, 3-6.
Management and Measurements, Mr. Buffum, 4; Mr. Riebe, 2-6.
Child Psychology, (Prerequisite, Psychology I), Mr. Hoyt, 2-6; Mr. Todd, 7.
Social Development, (Prerequisite, Psychology I), Mr. Riebe, 1.
Didactics I, Mr. Eells, 4; Mr. Cram, 2-5; Mr. McAnelly, 1-3-7.
Rural School Management, Mr. Cram, 1.
Rural School Methods, Miss Wilmarth, 3; Miss Hobb, 4-5-7; Miss Opfer, 1-2-6.

Open to Freshmen, Sophomores, and Juniors.

Problems of Grade Teachers, (3 hrs.), (Prerequisite, Psychology I), Mr. Goetch, M. W. F. 2.
History and Principles of Education, (Prerequisite, Psychology I), (The Consolidated School and Country Life may be substituted for this course on the elementary teacher curriculums), Mr. Paul, 3-4-7.
Project Method in Teaching, (2 hrs.), (Prerequisite, Psychology I), Mr. Todd, Tu. Th. 3.

Educational Tests and Measurements for Elementary Teachers, (3 hrs.), (Prerequisite, Psychology I), Mr. Wilcox, M. W. F. 1-2.

Mental Tests, (2 hrs.), (Prerequisite, Psychology I), Mr. Wilcox, Tu. Th. 1-2.

Open to Sophomores, Juniors, and Seniors on Degree Curriculums and to Sophomores on the Art, Manual Arts, and Commercial Teacher Curriculums.

Psychology of Adolescence, (Prerequisite, Psychology I), Mr. Charles, 7.

Open to Sophomores, Juniors, and Seniors.

History of Primary Education, (3 hrs.), (Prerequisite, Psychology I), Mr. Walters, M. W. F. 1.

Primary Educational Classics, (2 hrs.), (Prerequisite, Psychology I), Mr. Walters, Tu. Th. 1.

History of Education, (Prerequisite, Psychology I), Mr. Hollingsworth, 1-2.

History of American Education, (Prerequisite, Psychology I), Mr. Hollingsworth, 5.

The Junior High School, (3 hrs.), (Prerequisite, Psychology I), Mr. Todd, M. W. F. 3.

Elementary School Methods, (Prerequisite, Psychology I), (This course must be taken by students on the elementary teacher curriculums while taking the first term of Teaching and may not be taken by such students before that time), Mr. Todd, 4.

The Consolidated School and Country Life, Mr. Eells, 1.

Open to Juniors and Seniors.

Philosophy of Education, (Prerequisite, Psychology I), Mr. Walters, 4-7.

Literature for Primary Children, (Credit only for those whose major is primary or kindergarten education), Miss Arey, 2.

Educational Tests and Measurements for High School Teachers, (Prerequisite, Psychology I), Mr. Brown, 3.

School Administration and Supervision, (Prerequisite, Psychology I), Mr. Buffum, 1-5.

The High School, (Prerequisite, Psychology I), Mr. Charles, 3-6.

Problems of Superintendents and Principals, (2 hrs.), (Prerequisite, Psychology I), Mr. Goetch, Tu. Th. 2.

Social Psychology, (Prerequisite, Psychology I), Mr. Goetch, 3.

The Primary Curriculum, (Credit only for those whose major is primary or kindergarten education), Miss Smith, 3.

Educational Psychology for High School Teachers, (Prerequisite, Psychology I), Mr. Wiley, 5.

Consolidated School Administration, Mr. Eells, 2.

Special Methods in the Common Branches, (Prerequisite, Psychology 10 hours), Miss Wilmarth, 4.

Normal Training Supervision, Miss Wilmarth, 6.
ENGLISH

COLLEGIATE COURSES—

Open to Freshmen only.

English I, (Prerequisite for all other courses in English and Speech), Miss Huglin, Mr. Lambertson, 1; Mr. Holmes, Miss Huglin, 2; Mr. Halvorson, Miss Jack, 3; Mr. Halvorson, Miss Jack, 4; Mr. Lambertson, 6.

English O, (No credit toward graduation), Miss Rohlf, 1; Miss Hunter, 2-5.

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

Elements of Literature, Mr. Fagan, 2; Miss Rohlf, 4-5; Miss Buxbaum, 6; Miss Jack, 7.
Chief American Poets, (3 hrs.), Mr. Halvorson, M. W. F. 6.
American Prose Writers, (2 hrs.), Mr. Halvorson, Tu. Th. 6.

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

Description and Narration, Miss Terry, 7.
Methods in Language and Grammar, (2 hrs.), Miss Huglin, Tu. Th. 5.
Methods in Reading and Literature, (3 hrs.), Miss Huglin, M. W. F. 5.
Oral Interpretation I, Miss Strayer, 4-5; Miss Tuttle, 3-6.
Oral Interpretation II, (Prerequisite, Oral Interpretation I or equivalent preparation), Miss Tuttle, 1.
Public Speaking, Mr. Brindley, 4; Mr. Lambertson, 3.

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

Shakespeare, Miss Lambert, 3.
Feature Writing, (3 hrs.), Mr. Holmes, M. W. F. 6.
Play Production I, (Prerequisite, Oral Interpretation I and II or equivalent preparation), Miss Strayer, 2.
Extempore Speech, (Prerequisite, Public Speaking), Mr. Brindley, 7.

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

The Teaching of English, Mr. Fagan, 1.
The Essay, Mr. Fagan, 5.
History of English Literature, Miss Lambert, 2.
The Technique of Poetry, Miss Terry, 3.
Advanced Story Writing, (Prerequisite, Description and Narration), Miss Terry, 4.
Victorian Poetry, (3 hrs.), (No credit for those who have credit for Tennyson and Browning), Miss Hunter, M. W. F. 1.
Victorian Prose, (2 hrs.), Miss Hunter, Tu. Th. 1.
Advanced Public Speaking, (Prerequisite, Public Speaking), Mr. Brindley, 2.

HOME ECONOMICS

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Clothing I, (4 hrs.), Miss Allen, M. Tu. W. Th. 6 and Tu. Th. 7.
Clothing II, (4 hrs.), (Prerequisite, Clothing I or equivalent preparation), Miss Allen, Tu. Th. 6 and 7 and M. W. 3.
Textiles, (2 hrs.), Miss Dillon, Tu. 1 and 2 and Th. 2.
The School Lunch, (2½ hrs.), (Credit only on the one-year rural teacher curriculum), Miss Dillon, daily 3.
Home and Community Hygiene, (3 hrs.), Miss Dillon, M. W. F. 7.
Food Preparation II, (Prerequisite, Chemistry XI and XII and Food Preparation I or equivalent preparation), Miss Johnson, daily 2 and Tu. Th. 1.

Open to Freshmen, Sophomores, and Juniors.
Nutrition, (3 hrs.), (No credit on a Home Economics curriculum or for those who have had Food Preparation I and II), Miss Johnson, M. W. F. 4.

Open to Sophomores, Juniors, and Seniors.
House Planning, (3 hrs.), (Prerequisite, General Design), Miss Johnson, M. W. F. 4.

Open to Juniors and Seniors.
Applied Dress Design, (3 hrs.), (Prerequisite, Costume Design), Miss Allen, M. W. F. 1 and 2.
Meal Planning, (3 hrs.), (Prerequisite, Food Preparation I and II), Miss Johnson, M. W. F. 5 and W. 6.
Food Marketing, (2 hrs.), Miss Johnson, Tu. Th. 7.
Home Management, (Prerequisite, Food Preparation I and II. This course must be preceded or accompanied by Food Marketing and Meal Planning), Miss Dillon, 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 III, Mr. Merchant, 7.
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 II, Pliny's Letters, (following four years of high school Latin or other preparation approved by the head of the department), Mr. Merchant, 2.
German I, Mr. Schaefer, 1.
German II, Mr. Schaefer, 2.
German III, Short Stories, (Prerequisite, one year of high school German or equivalent preparation), Miss Buxbaum, 3.

Open to Sophomores, Juniors, and Seniors and 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 Buxbaum, 4.
German V, Schiller's Dramas, (Prerequisite, German IV or equivalent preparation), Mr. Schaefer, 6.
MATHEMATICS AND COMMERCIAL EDUCATION

DRILL COURSES—
- Penmanship (a), Mr. Cummins, 2-3-6.
- Penmanship (b), Mr. Cummins, 1.
- Typewriting (a), Miss Botsford, 3; Miss Harnack, 1-6.
- Typewriting (b), Miss Botsford, 2.
- Typewriting (c), Miss Harnack, 4.

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.

Principles of Elementary Mathematics, (Credit only on the kindergarten, primary, elementary teacher, and consolidated school curriculums, and for those whose major is normal training high school critic work, and for those whose major or minor is mathematics), Mr. Condit, 1; Mr. Wester, 2; Miss Van Dyke, 3-5-7.
- Shorthand I, (Credit only on commercial education curriculums), Miss Harnack, 3.
- Shorthand II, (Credit only on commercial education curriculums), Miss Botsford, 5.

Open to Freshmen, Sophomores, and Juniors.

- Mathematics I, Miss Lambert, 3-6.
- Mathematics II, (Prerequisite, Mathematics I), Mr. Watson, 5.
- Analytical Geometry, (Prerequisite, Mathematics II), Mr. Watson, 4.
- Accounting I, (Prerequisite, Accounting A or equivalent preparation), Mr. Mach, 1.
- Accounting II, Mr. Skar, 7.

Open to Sophomores, Juniors, and Seniors.

- Calculus I, (Prerequisite, Analytical Geometry), Mr. Wester, 4.
- Modern Geometry (a), Projective, (3 hrs.), (Prerequisite, Mathematics II), Mr. Watson, M. W. F. 1.
- Modern Geometry (b), Advanced Euclidian, (2 hrs.), (Prerequisite, Mathematics II), Mr. Watson, Tu. Th. 1.
- Machine Accounting, (1 hr.), (Prerequisite, elementary book-keeping or equivalent preparation), Mr. Mach, M. 2 and 1 hr. laboratory as arranged.
- Commercial Correspondence, (3 hrs.), Mr. Mach, M. W. F. 3.
- Advertising, (2 hrs.), Mr. Mach, Tu. Th. 3.
- Commercial Law, Mr. Skar, 2.

Open to Juniors and Seniors

- Teaching of Secondary Mathematics, (Prerequisite, two courses in college mathematics), Mr. Condit, 2.
- History of Mathematics, (2 hrs.), (Prerequisite, two courses in college mathematics), Mr. Wester, Tu. Th. 7.
- Theory of Equations, (Prerequisite, Calculus I), Miss Lambert, 4.
- Marketing, (3 hrs), Mr. Mach, M. W. F. 6.
- Business Organization, (2 hrs.), Mr. Mach, Tu. Th. 6.
Teaching of Commercial Subjects, (Previous training in shorthand, typewriting, and bookkeeping required), Mr. Skar, 4.
Business Publications, Mr. Skar, Tu. 5.
Secretarial Training, (3 hrs.), Miss Botsford, M. W. F. 7.

MUSIC

DRILL COURSE—
Drill Music, Mr. Hays, 3.

COLLEGIATE COURSES—
Open to Freshmen and Sophomores.
Music I, (3 hrs.), Mr. Wolfe, M. W. F. 3.
Music II, (3 hrs.), Mr. Fullerton, M. W. F. 2.
Sight Singing, Mr. Fullerton, 5.
Elements of Music, (2½ hrs.), (No credit for students whose major is public school music), Mr. Wolfe, daily 6; Miss Mayfield, daily 5; Mr. Hays, daily 1; daily 3-4-5-7.
Primary Music, (2½ hrs.), (No credit for students whose major is public school music), (Prerequisite, Elements of Music or equivalent preparation), Miss Barker, daily 1; Mrs. Schmidt, daily, 2.
Intermediate Grade Music, (2½ hrs.), (No credit for students whose major is public school music), (Prerequisite, Elements of Music or equivalent preparation), Miss Barker, daily 4; Mr. Wolfe, daily 1.
Introductory Harmony, (3 hrs.), Mr. Wolfe, M. W. F. 4.

Open to Sophomores, Juniors, and Seniors.
Choral Conducting, (2 hrs.), Mr. Fullerton, Tu. Th. 2.
Music Methods I, (2 hrs.), Miss Mayfield, Tu. Th. 1.
History of Music I, (2 hrs.), Miss Freeman, Tu. Th. 7.
History of Music II, (3 hrs.), Miss Freeman, M. W. F. 7.
Harmony I, (3 hrs.), (Prerequisite, Introductory Harmony), Miss Evans, W. W. F. 2.

Open to Juniors and Seniors.
Music Appreciation I, (3 hrs.), Miss Mayfield, M. W. F. 3.
Harmony IV, (3 hrs.), Miss Evans, M. W. F. 5.

NATURAL SCIENCE

COLLEGIATE COURSES—
Open to Freshmen and Sophomores.
Commercial and Industrial Geography, (Credit only on commercial education curriculums and for those whose major is earth science), Mr. Cable, 4.
Physiology I (a), Mr. Abbott, daily 7 and Tu. Th. 6.
Nature Study, (Credit only on the kindergarten, primary, elementary teacher, and consolidated school curriculums and for those whose major is normal training high school critic work), Miss Gilbert, daily 1 and Tu. Th. 2; daily 4 and Tu. Th. 3; daily 6 and M. W. 7.
General Agriculture, (No credit for those who have one or more units of entrance credit in agriculture), Mr. Scott, daily 2 and Tu. Th. 1.

**Open to Freshmen, Sophomores, and Juniors.**

Principles of Geology, Mr. Cable, 1.
Elements of Geography I, Miss Aitchison, 1-2; Miss Uttley, 2-7.
Biology I (a), Mr. Abbott, daily 2 and M. W. 3.
Botany I, General College Botany, Mr. Clark, daily 2 and Tu. Th. 1; daily 6 and M. W. 7.
Botany IV, Trees and Shrubs, (3 hrs.), Mr. Clark, M. W. F. 3 and M. W. 4.
Dairy Cattle, (3 hrs.),
M. W. F. 1 and W. 2.
Swine, (2 hrs.),
Tu. Th. 1 and Tu. 2.

**Open to Sophomores, Juniors, and Seniors.**

Astronomy I, Mr. Cable, 3.
Geography of North America, Miss Uttley, 4.
Hygiene and Sanitation (a), Miss Swalwell, daily 2 and M. W. 3; daily 4 and Tu. Th. 3; daily 7 and Tu. Th. 6.
Heredity, (3 hrs.), Mr. Lantz, M. W. F. 1.
Organic Evolution, (2 hrs.), Mr. Lantz, Tu. Th. 1.
Botany III, Plant Taxonomy, (Prerequisite, entrance credit in botany, or General College Botany), Mr. Lantz, daily 7 and Tu. Th. 6.
Farm Management, (3 hrs.),
M. W. F. 3.
Soil Fertility, (2 hrs.),
Tu. Th. 3.

**Open to Juniors and Seniors.**

Influence of Geography upon American History, (Prerequisite, entrance credit or college credit in American History), Miss Aitchison, 5.
Insects and Man, (3 hrs.), (Prerequisite, Biology I), Mr. Abbott, M. W. F. 5 and W. 6.
Bacteriology, (3 hrs.), Mr. Lantz, M. W. F. 4 and W. F. 3.
Methods in Agriculture, Mr. Scott, 4.
Farm Crops, Mr. Scott, daily 6 and Tu. Th. 7.
Principles of Breeding, (2 hrs.),
Tu. Th. 5.
Feeds and Feeding, (3 hrs.),
M. W. F. 5.

**ORCHESTRAL MUSIC**

**Open to Sophomores, Juniors, and Seniors.**

Orchestra Conducting, (3 hrs.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Searight, M. W. F. 2.
Orchestral Instruments I, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Searight, Tu. Th. 5.
Orchestral Instruments II, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Searight, Tu. Th. 6.
Orchestral Instruments III, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Russell, Tu. Th. 3.

Orchestral Instruments IV, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Ball, M. F. 2; M. F. 3.

Orchestral Instruments V, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Russell, Tu. Th. 5.

Orchestral Instruments VI, (1 hr.), (Prerequisite, 3 hours of credit in applied music other than Voice), Mr. Russell, Tu. Th. 6.

Open to Juniors and Seniors.

Band Conducting, (3 hrs.), (Prerequisite, 3 hours of credit in woodwind or brass instruments), Mr. Russell, M. W. F. 1.

Band Instrumentation, (3 hrs.), (Prerequisite, Harmony I, II, III and 3 hours of credit in woodwind or brass instruments), Mr. Ball, M. W. F. 6.

Orchestration I, (3 hrs.), (Prerequisite, Harmony I, II, III, and 3 hours of credit in applied music other than Voice), Mr. Hill, M. W. F. 3.

Open to Students in Bass.

Bass Ensemble, Mr. Searight, Tu. Th. 2-3-4.

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

String Ensemble, Mr. Kurtz, M. Tu. Th. 7; Tu. Th. 8; Mr. Searight, W. 7.

Open to Students in Cello.

Cello Ensemble, Mr. Searight, M. W. 3; M. W. 4.

Open to Students in Violin.

Violin Ensemble, Mr. Hill, W. 8.

Open to Students in Reed and Brass Instruments.

Wood Ensemble, Mr. Russell, Tu. Th. 7.

Brass Ensemble, Mr. Ball, M. F. 1; F. 2; M. F. 7.

Open to Students whose Major is Public School Music or Orchestral Music or Band Music.

Supervisors Violin (a), (Drill credit), Mr. Hill, Tu. Th. 2; Tu. Th. 4.

Supervisors Violin (b), (Drill credit), (Prerequisite, Supervisors Violin (a) or equivalent preparation), Mr. Hill, Tu. Th. 3.

Supervisors Violin (c), (Drill credit), (Prerequisite, Supervisors Violin (b) or equivalent preparation), Mr. Hill, Tu. Th. 6.

Notes:

The College Orchestra, Mr. Kurtz, director, M. W. F. 8.
The College Band, Mr. Russell, director, M. W. F. 9.
The Ladies Band, Mr. Russell, director, Tu. Th. 8.
The Orchestra Club, Mr. Hill, Tu. Th. 9.
The String Quartet, Mr. Kurtz, F. 7.
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—
Boy Scout Leadership, Mr. Buffum, Th. 9 and 10.
Beginning Swimming, Mr. Dickinson, M. W. F. 3.
Golf, Mr. Dickinson, M. W. F. 8.
Advanced Swimming, Mr. Dickinson, Tu. Th. 3.
Tennis, Mr. Mendenhall, M. W. F. 8; Tu. Th. 8.
Recreational Baseball, Mr. Whitford, daily 10 and 11.
Recreational Golf, Mr. Dickinson, daily 9.
Recreational Swimming, Mr. Bender, daily 9.
Recreational Tennis, Mr. Mendenhall, daily 9 and 10.

WOMEN

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.
Play and Playground, (3 hrs.), (No credit for those whose major is physical education), Miss White, M. W. F. 5.

Open to Freshmen, Sophomores, and Juniors.
First Aid to the Injured, (2 hrs.), Dr. Mead, Tu. Th. 1.

Open to Sophomores, Juniors, and Seniors.
Anatomy I, Dr. Mead, 2.
Physical Education I, (Credit only for students whose major is physical education or coaching and athletics), Miss Wild, daily 3, and M. W. 6.
Club Craft and Leadership, (2 hrs.), Miss Humiston, Tu. Th. 5.

Open to Juniors and Seniors.
Physical Education VI, (2 hrs.), Miss Wild, Tu. Th. 4 and 9.

General Class Work in Physical Training for Women.
Beginning Dancing, Miss Wild, M. W. 6.
Gymnastics, Miss Wild, M. W. 4.
Advanced Dancing, Miss Wild, M. W. 7.
Dancing Technique, Miss Wild, Tu. Th. 9.
National Dancing, Miss Van Ness, Tu. Th. 7.
Folk Dancing, Miss Van Ness, Tu. Th. 10.
Advanced Folk Dancing, Miss Van Ness, M. W. 5.
Clogging, Miss Egan, M. W. 8.
Social Dancing, Miss Egan, M. W. 9.
Games, Miss White, Tu. Th. 5.
Basketball, Miss White, Tu. Th. 6.
Beginning Swimming, Miss Egan, M. W. 2; Tu. Th. 2; M. W. 3; Tu. Th. 9; Miss Humiston, M. W. 4; M. W. 6; Tu. Th. 7.
First Intermediate Swimming, Miss Egan, Tu. Th. 4; M. W. 7.
Second Intermediate Swimming, Miss Egan, Tu. Th. 10.
Advanced Swimming, Miss Egan, Tu. Th. 8.
Life Saving, Miss White, M. W. 9.
Canoeing, (six weeks credit), Miss Egan, Saturday 9:00 a.m. to 11:00 a.m., first six weeks; Miss Humiston, Saturday 9:00 a.m. to 11:00 a.m., first six weeks.
Tennis, Miss Van Ness, M. W. 2; Tu. Th. 3; M. W. 4; Tu. Th. 8.
Advanced Tennis, Miss Van Ness, Tu. Th. 9.
Archery, Miss Van Ness, Tu. Th. 5.
Handball, Miss Humiston, M. W. 5.
Golf, Miss Humiston, Tu. Th. 9 (3:30); Tu. Th. 9 (4:00); Tu. Th. 10.

PHYSICS AND CHEMISTRY

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. Th. F. 1. Laboratory: M. W. 6 or as arranged.

Physics XVII, General Physical Science, (Credit only on degree curriculums), Mr. Hersey, daily 2 and Tu. Th. 1.

Open to Freshmen, Sophomores, and Juniors.

Physics I, Mechanics, (3 hrs.), (No credit for those who have had Physics A), (Prerequisite, high school physics or equivalent preparation), Mr. Kadesch, M. W. F. 2.

Physics II, Laboratory Physics in Mechanics, (2 hrs.), (No credit for those who have had Physics A), Mr. Kadesch, Tu. Th. 1 and 2.

Physics III, Sound and Light, (3 hrs.), (Prerequisite, Physics I or Physics A and B or equivalent preparation), Mr. Kadesch, M. W. F. 3.

Physics IV, Laboratory Physics in Sound and Light, (2 hrs.), (Prerequisite, Physics I and II or Physics A and B), Mr. Begeman, 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 Tu. Th. 4.
General Inorganic Chemistry II, Mr. Hersey, daily 4 and M. W. 3.
Chemistry X, General Inorganic, Mr. Getchell, daily 3 and Tu. Th. 4.
Chemistry XI, Inorganic and Organic, Mr. Getchell, M. W. F. 6. Laboratory: Mr. Hersey, Tu. Th. 6 and 7.
Chemistry XII, Organic, (3 hrs.), (Prerequisite, Chemistry I and II or Chemistry X and XI), Mr. Getchell, hours as arranged.

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.
Chemistry IV, Organic, (Prerequisite, Chemistry I and II), Mr. Getchell, daily 2 and Tu. Th. 1.
Chemistry V, Quantitative Analysis (Gravimetric) (a), (3 hrs.), (Prerequisite, Chemistry III), Mr. Getchell, hours as arranged.
Chemistry V, Quantitative Analysis (Gravimetric) (b), (2 hrs.), (Chemistry V (a) must precede or accompany this course), Mr. Getchell, hours as arranged.
Chemistry VI, Quantitative Analysis (Volumetric) (a), (3 hrs.), Mr. Getchell, hours as arranged.
Chemistry VI, Quantitative Analysis (Volumetric) (b), (2 hrs.), (Chemistry VI (a) must precede or accompany this course), Mr. Getchell, hours as arranged.

Open to Juniors and Seniors.
Physics IX, Advanced Course in Electricity and Magnetism, (Prerequisite, Physics V and VI or equivalent preparation), Mr. Kadesch, hours as arranged.
Physics X, Teachers’ Course in Physics, (Prerequisite, 10 hours of college physics. For teachers of physics this prerequisite may be set aside during the summer term), Mr. Begeman, M. W. F. 5. Laboratory: Tu. Th. 5 and 6 or Tu. Th. 6 and 7.

RELIGIOUS EDUCATION

COLLEGIATE COURSES—
Open to Freshmen, Sophomores, and Juniors.
Synoptic Life of Jesus, (2 hrs.), Dr. Hanson, Tu. Th. 2.

Open to Sophomores, Juniors, and Seniors.
Hebrew Religion II, (3 hrs.), Dr. Hanson, M. W. F. 3.
Life and Letters of Paul, (2 hrs.), Dr. Hanson, Tu. Th. 4.

Open to Juniors and Seniors.
Bible Ethics, (3 hrs.), Dr. Hanson, M. W. F. 2; Fr. Wieneke, M. W. F. 6.

ROMANCE LANGUAGES

COLLEGIATE COURSES—
Open to Freshmen, Sophomores, and Juniors
French I, Miss Dyer, 2; Miss Short, 6.
French II, Mr. Lillehei, 2.
French III, (Prerequisite, one year of high school French or equivalent preparation), Mr. Lillehei, 6.
Spanish I, Miss Short, 1; Miss Dyer, 5.
Spanish II, Miss Short, 3.
Spanish III, (Prerequisite, one year of high school Spanish or equivalent preparation), Miss Dyer, 7.

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

Open to Juniors and Seniors, and to Sophomores who have had French IV, V, VI.
French VII (a), (3 hrs.), Miss Dyer, M. W. F. 4.
French XIV, (2 hrs.), Mr. Lillehei, Tu. Th. 4.

SOCIAL SCIENCE

COLLEGIATE COURSES—

Open to Freshmen and Sophomores.
Rural Sociology, Mr. Partington, 1-4-6; Mr. Tascher, 3.
American History I, Mr. Gemmill, 1; Miss Riggs, 3; Mr. Wallace 7; Mr. Wellborn, 5; Mr. Fahrney, 2-4.
European History I, Miss Riggs, 2.

Open to Freshmen, Sophomores, and Juniors.
Parliamentary Law and Practice, (1 hr.), Mr. Thompson, Tu. 5; F. 7.
Principles of Economics I, Miss Hunter, 1-3.
American Government, Mr. Robinson, 2-7; Mr. Erbe, 3; Mr. Gemmill, 4-6; Mr. Tascher, 1-5.
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.
American History II, Mr. Wallace, 1; Mr. Fahrney, 6.

Open to Juniors and Seniors.
Crime and Poverty, Miss Hunter, 7.
Population, (3 hrs.), Mr. O'Neill, M. W. F. 3.
Insurance, (2 hrs.), Mr. O'Neill, Tu. Th. 3.
World Government and Politics, Mr. Robinson, 4.
Teaching the Social Sciences, Mr. Erbe, 2.
Legal Status of Women, (2 hrs.), Mr. Erbe, Tu. Th. 6.
Recent European History, Miss Riggs, 5.
Diplomatic History of the United States, Mr. Wellborn, 1.
History of the West, Mr. Wellborn, 3.
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 only on the primary and kindergarten curriculums), Miss Rait, M. Tu. W. Th. 4.

Child Psychology, (Prerequisite, Psychology I), Miss Kirkwood, 7.

Open to Sophomores, Juniors, and Seniors.

Kindergarten Theory for Primary Teachers, (2 hrs.), (Prerequisite, 15 hours in psychology and education), (Credit only on the primary curriculums), Miss Findley, 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.