

1-1934

## College Catalog 1933-1934

Iowa State Teachers College

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# BULLETIN

OF THE

## Iowa State Teachers College

CEDAR FALLS, IOWA

---

CATALOG

1933-34

INCLUDING ANNOUNCEMENTS FOR 1934-35

---

Volume XXXV, Number 1

January, 1934

---

Issued Quarterly. Published by the Iowa State Teachers College.  
Entered as second-class mail matter, August 31, 1912, at the  
post office at Cedar Falls, Iowa, under the Act of  
August 24, 1912.

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# TABLE OF CONTENTS

	Page
College Calendar for the Year 1934-35.....	5
State Board of Education.....	6
Officers of Administration.....	7
Officers of Instruction.....	8
Other Officers and Assistants.....	17
Faculty Committees.....	20
General Information	
Historical Sketch.....	21
Buildings and Grounds.....	24
Enrollment and Registration.....	27
Fees.....	27
The College Dormitories.....	29
Accredited Rooming Houses.....	29
Scholarships.....	29
Employment of Students.....	30
Student Organizations.....	30
Control of Extra-Curricular Activities.....	31
Placement Bureau.....	31
General Regulations	
Entrance Requirements.....	32
Admission with Advanced Standing.....	33
Advisers and Amount of Work.....	33
Absences and the Making up of Work.....	34
Marks and Grade Points.....	34
General Requirements for Graduation.....	34
Teachers Certificates.....	36
Curricula	
Two-Year Curricula.....	37
Four-Year Curricula.....	41
Courses of Instruction	
Art and Manual Arts.....	51
Education.....	54
English.....	59
Home Economics.....	62
Latin, Greek, and German.....	64
Mathematics and Commercial Education.....	67
Music.....	71
Natural Science.....	74
Orchestral Music.....	78
Physical Education for Men.....	80
Physical Education for Women.....	82
Physics and Chemistry.....	84
Religious Education.....	89
Romance Languages.....	90
Social Science.....	93
Teaching.....	97
Extension Service for 1934-35	
Schools Service.....	99
Extension Credit Work	
General Regulations.....	99
Extension Class Work.....	99
Correspondence Work.....	102
Graduates, 1932-33.....	106
Summary of Attendance.....	117
Index.....	119





# COLLEGE CALENDAR FOR 1934-35

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## Summer Term, 1934—Twelve Weeks

1934

- June 6, Wednesday—Registration, 7:00 a.m. to 5:00 p.m.  
June 7, Thursday —Instruction begins, 7:30 a.m.  
July 4, Wednesday—Independence Day, a holiday  
Aug. 23, Thursday —Graduating Exercises, 7:30 p.m.  
Aug. 24, Friday —Term ends, 12:00 noon

## Fall Term, 1934—Twelve Weeks

- Sept. 10, Monday —Registration of First-Year Students, 8:00 a.m. to 5:00 p.m. (All first-year students enrolling for the first time must report at the auditorium promptly at 8:00 a.m.)  
Sept. 11, Tuesday —Registration of Upper Classmen, 8:00 a.m. to 5:00 p.m.  
Sept. 12, Wednesday—Instruction begins, 8:00 a.m.  
Nov. 27, Tuesday —Graduating Exercises, 7:30 p.m.  
Nov. 28, Wednesday—Term ends, 12:00 noon

## Winter Term, 1934-35—Twelve Weeks

- Dec. 3, Monday —Registration, 8:00 a.m. to 5:00 p.m.  
Dec. 4, Tuesday —Instruction begins, 8:00 a.m.  
Dec. 21, Friday —Holiday Recess begins, 5:00 p.m.

1935

- Jan. 7, Monday —Instruction resumes, 8:00 a.m.  
March 7, Thursday —Graduating Exercises, 7:30 p.m.  
March 8, Friday —Term ends, 12:00 noon

## Spring Term, 1935—Twelve Weeks

- March 11, Monday —Registration, 8:00 a.m. to 5:00 p.m.  
March 12, Tuesday —Instruction begins, 8:00 a.m.  
May 30, Thursday —Memorial Day, a holiday  
June 3, Monday —Fifty-eighth Annual Commencement. Term ends, 12:00 noon.

## Summer Term, 1935—Twelve Weeks

- June 5, Wednesday—Registration, 7:00 a.m. to 5:00 p.m.  
June 6, Thursday —Instruction begins, 7:30 a.m.  
July 4, Thursday —Independence Day, a holiday  
Aug. 22, Thursday —Graduating Exercises, 7:30 p.m.  
Aug. 23, Friday —Term ends, 12:00 noon

## Fall Term, 1935—Twelve Weeks

- Sept. 9, Monday —Beginning of the Fall Term

## IOWA STATE BOARD OF EDUCATION

### OFFICERS OF THE BOARD

GEORGE T. BAKER, President  
WILLIAM H. GEMMILL, Secretary

### MEMBERS OF THE BOARD

GEORGE T. BAKER, Davenport	}	Terms expire July 1, 1935
ANNA B. LAWThER, Dubuque		
ESKIL C. CARLSON, Des Moines		
J. H. ANDERSON, Thompson	}	Terms expire July 1, 1937
THOS. W. KEENAN, Shenandoah		
HARRY M. NEAS, Sigourney		
HENRY C. SHULL, Sioux City	}	Terms expire July 1, 1939
S. J. GALVIN, Sheffield		
MRS. CORA SIMPSON, Decorah		

### MEMBERS OF THE FINANCE COMMITTEE

Office, Des Moines

WILLIAM R. BOYD, Cedar Rapids, Chairman  
WILLIAM H. GEMMILL, Des Moines, Secretary  
WILLIAM G. NOTH, Des Moines

### COMMITTEES OF THE BOARD

#### Faculty Committee

	ANNA B. LAWThER, Chairman	
ESKIL C. CARLSON		HENRY C. SHULL
J. H. ANDERSON		GEORGE T. BAKER

#### Building and Business Committee

	S. J. GALVIN, Chairman	
THOS. W. KEENAN		MRS. CORA SIMPSON
HARRY M. NEAS		GEORGE T. BAKER

## OFFICERS OF ADMINISTRATION AND INSTRUCTION, 1933-34

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### OFFICERS OF ADMINISTRATION

ORVAL RAY LATHAM, B.A., State University of Iowa, 1911; M.A., 1919; Ph.D.,  
1928

President, 1928\*

CHARLES S. CORY, B.S., State University of Iowa, 1902

Registrar and Examiner, 1907 (1913)

LESLIE I. REED, B.Ph., State University of Iowa, 1903; M.A., 1906

Dean of Men, 1916 (1924)

BENJAMIN BOARDMAN, B.Ph., State University of Iowa, 1901

Financial Secretary, 1917

ROGER LEAVITT, B.A., Beloit College, 1882; M.A., 1885

Treasurer, 1919

FRANK N. MEAD, M.D., University of Pennsylvania, 1895

Health Director and Professor of Physical Education, 1920 (1926)

SADIE B. CAMPBELL, B.A., Colorado State Teachers College, 1919; M.A., Columbia  
University, 1925

Dean of Women, 1929

ELDON E. COLE, B.S., Iowa State College, 1921

Superintendent of Buildings and Grounds, 1930 (1931)

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\* A single date following title indicates the beginning of service at the Iowa State Teachers College. If two dates are given, the first indicates the beginning of service at the College and the second (in parenthesis) the beginning of service in present rank.



## OFFICERS OF INSTRUCTION\*

## Art and Manual Arts

- CHARLES H. BAILEY, B.S. in C.E., State University of Iowa, 1895; B.S. and Manual Training Diploma, Columbia University, 1903  
Professor of Manual Arts and Head of the Department, 1905 (1909)
- BERTHA L. PATT, Des Moines Academy of Art, 1893-94; New York Art Students' League, 1894-95 and 1898-99  
Associate Professor of Art, 1895 (1932)
- AGNES B. COLE, B.Ph., University of Chicago, 1928; M.A., Columbia University, 1933  
Assistant Professor of Art, 1921 (1932)
- CORLEY AGNES CONLON, B.A., Iowa State Teachers College, 1931; M.A., Columbia University, 1932  
Instructor in Art, 1923
- HAROLD G. PALMER, B.A., Iowa State Teachers College, 1924; M.A., State University of Iowa, 1932  
Instructor in Manual Arts, 1924
- MRS. IRIS BRANAGAN, B.A., Miami University, 1914; M.A., University of Chicago and Chicago Art Institute, 1927  
Assistant Professor of Art, 1928

## Education

- M. J. NELSON, B.A., Luther College, 1916; M.A., University of Wisconsin, 1924; Ph.D., 1928  
Professor of Education and Head of the Department, 1924 (1930)
- G. W. WALTERS, B.S., Iowa Wesleyan College, 1879; M.S., 1882  
Professor of Education, 1895
- HUGH S. BUFFUM, B.A., State University of Iowa, 1901; M.A., 1902; Ph.D., 1906  
Professor of Education, 1914
- JOHN W. CHARLES, B.A., Haverford College, 1904; M.A., 1908; Ph.D., State University of Iowa, 1926  
Professor of Education, 1916 (1917)
- JOSEPH B. PAUL, B.A., Indiana University, 1911; M.A., University of Wisconsin, 1914; Ph.D., 1931  
Professor of Education, 1916 (1917)
- JOHN R. SLACKS, B.Ph., University of Chicago, 1930; M.A., 1930  
Associate Professor of Rural Education, 1918 (1932)
- E. W. GOETCH, B.A., State University of Iowa, 1910; M.A., 1920; Ph.D., 1925  
Professor of Education and Director of the Placement Bureau, 1918 (1928)
- MAY SMITH, B.A., Coe College, 1905; M.A., Columbia University, 1929  
Associate Professor of Education, 1919 (1932)
- AMY F. AREY, B.S., Columbia University, 1905; M.A., 1906  
Associate Professor of Education, 1919 (1932)
- E. O. FINKENBINDER, B.A., University of Illinois, 1910; M.A., Clark University, 1911; Ph.D., 1913  
Professor of Education, 1921
- CHARLES O. TODD, B.A., Indiana University, 1911; M.A., University of Chicago, 1916  
Associate Professor of Education, 1922 (1932)

\* Names of members of each departmental staff, other than the head, are arranged according to institutional seniority.



- E. C. DENNY, B.A., Indiana University, 1915; M.A., University of Chicago, 1916; Ph.D., State University of Iowa, 1932  
Associate Professor of Education, 1923 (1932)
- M. J. WILCOX, B.S., Cornell College, 1914; M.A., State University of Iowa, 1917; Ph.D., 1932  
Assistant Professor of Education, 1923 (1932)
- A. E. BROWN, B.S., Baker University, 1909; M.A., Yale University, 1910; Ph.D., State University of Iowa, 1931  
Associate Professor of Education, 1924 (1932)
- D. P. PHILLIPS, B.A., Upper Iowa University, 1915; M.A., State University of Iowa, 1923; Ph.D., 1932  
Assistant Professor of Education, 1924 (1932)
- H. A. RIEBE, B.Ph., University of Wisconsin, 1923; M.Ph., 1923; Ph.D., 1929  
Associate Professor of Education, 1925 (1932)

## English

- SAMUEL A. LYNCH, B.L., University of Missouri, 1892; M.A., University of Chicago, 1900  
Professor of English and Head of the Department, 1909
- LILLIAN V. LAMBERT, B.Ph., University of Chicago, 1895; M.Ph., 1906  
Professor of English, 1907 (1909)
- W. B. FAGAN, B.A., Earlham College, 1910; M.A., University of Kansas, 1915  
Associate Professor of English, 1915 (1932)
- ANNA MARIE SORENSON, B.A., State University of Iowa, 1907; M.A., 1912  
Associate Professor of English, 1921 (1932)
- HAZEL B. STRAYER, B.A., Iowa State Teachers College, 1914; M.A., Columbia University, 1923  
Associate Professor of Oral Interpretation, 1921 (1932)
- SELINA M. TERRY, B.Ph., Hamline University, 1903; M.A., 1907  
Professor of English, 1922 (1933)
- IDA C. ROHLF, B.A., Iowa State Teachers College, 1915; M.A., State University of Iowa, 1923  
Assistant Professor of English, 1923 (1926)
- KATHERINE BUXBAUM, B.A., State University of Iowa, 1908; M.A., University of Chicago, 1924  
Assistant Professor of English, 1924 (1927)
- NELIUS O. HALVORSON, B.A., Luther College, 1921; M.A., State University of Iowa, 1925; Ph.D., 1929  
Associate Professor of English, 1929 (1932)
- GEORGE H. HOLMES, B.A., University of Michigan, 1925; M.A., 1926  
Assistant Professor of Journalism and Director of Publicity Service, 1929 (1932)
- FLOYD W. LAMBERTSON, B.A., Albion College, 1914; M.A., Northwestern University, 1922; Ph.D., State University of Iowa, 1930  
Associate Professor of Public Speaking, 1930 (1932)
- CHARLES F. HOLDEN, B.A., University of Michigan, 1929; M.A., 1930  
Instructor in English, 1930

## Home Economics

- BEATRICE J. GEIGER, B.S., University of Chicago, 1919; M.S., Columbia University, 1926; Ph.D., University of Wisconsin, 1932  
Professor of Home Economics and Head of the Department, 1932
- LUELLA OVERN, B.A., State University of Iowa, 1920; M.S., University of Chicago, 1926  
Assistant Professor of Home Economics, 1925 (1932)
- BERNICE ALLEN, B.S., Columbia University, 1926; M.A., 1931  
Assistant Professor of Home Economics, 1926 (1932)

## Latin, Greek, and German

FRANK IVAN MERCHANT, B.A., Shurtleff College, 1880; M.A., Ph.D., University of Berlin, 1890

Professor of Latin and Greek and Head of the Department, 1907 (1909)

EDNA O. MILLER, B.A., Iowa State Teachers College, 1918; M.A., Columbia University, 1924

Assistant Professor of Latin, 1924 (1927)

JOSEF SCHAEFER, State Examination, University of Freiburg, 1923; Ph.D., 1924

Associate Professor of German and Latin, 1926 (1933)

## Mathematics and Commercial Education

IRA S. CONDIT, B.A., Parsons College, 1886; M.A., 1889

Professor of Mathematics and Head of the Department, 1898 (1909)

HARRY C. CUMMINS, B.Di., Iowa State Teachers College, 1898

Associate Professor of Commercial Education, 1898 (1932)

EMMA F. LAMBERT, B.Ph., State University of Iowa, 1904; M.A., Columbia University, 1930

Professor of Mathematics, 1901 (1915)

CHARLES W. WESTER, B.S., University of California, 1908; M.A., University of Washington, 1911

Professor of Mathematics, 1916 (1918)

E. E. WATSON, B.S., State University of Iowa, 1905; M.S., 1905

Professor of Mathematics, 1920

GEORGE R. MACH, B.S., University of Illinois, 1921; M.S., 1922

Assistant Professor of Commercial Education, 1923 (1932)

MYRTLE E. GAFFIN, B.A., Iowa State Teachers College, 1923; M.A., State University of Iowa, 1930

Instructor in Commercial Education, 1923

†R. O. SKAR, B.A., St. Olaf College, 1916; M.A., 1919

Associate Professor of Commercial Education, 1924 (1932)

JULIA M. MYERS, B.A., Iowa State Teachers College, 1924; M.A., Columbia University, 1931

Instructor in Commercial Education, 1924

## Music

C. A. FULLERTON, B.Di., Iowa State Teachers College, 1889; B.S., 1890; M.Mus., Chicago Musical College, 1931

Professor of Music and Head of the Department, 1897 (1909)

GEORGE W. SAMSON, JR., Iowa State Teachers College, 1900-04

Instructor in Organ, 1916

WILLIAM E. HAYS, B.Di., Public School Music Diploma, and Voice Diploma, Iowa State Teachers College, 1912; B.Mus., Chicago Musical College, 1932

Assistant Professor of Voice, 1921 (1932)

ROSE LENA RUEGNITZ, B.Mus., Northwestern University, 1920; M.Mus., Cosmopolitan Conservatory, 1931

Assistant Professor of Piano, 1923 (1932)

ALTA FREEMAN, B.Mus., Chicago Musical College, 1931; M.Mus., 1932

Assistant Professor of Piano, 1923 (1933)

ALPHA CORINNE MAYFIELD, Music Supervisor's Diploma, Columbia University, 1924; B.S., Northeast Missouri State Teachers College, 1927; M.A., Columbia University, 1932

Instructor in Music, 1924

† On leave of absence.



- LUTHER A. RICHMAN, B.S., Northwest Missouri State Teachers College, 1926; M.Mus., Cincinnati Conservatory of Music, 1931; M.A., University of Cincinnati, 1931  
Assistant Professor of Voice, 1925 (1932)
- OLIVE L. BARKER, B.A., Iowa State Teachers College, 1931; M.A., Columbia University, 1932  
Instructor in Voice and Music, 1926
- † IRVING WOLFE, B.A., Iowa State Teachers College, 1925; M.S., Northwestern University, 1931  
Instructor in Music, 1926

## Natural Science

- EMMETT J. CABLE, B.S., Cornell College, 1900; M.S., 1903; Ph.D., State University of Iowa, 1917  
Professor of Earth Science and Head of the Department, 1905 (1917)
- ALISON E. AITCHISON, B.S., State University of Iowa, 1907; M.S., University of Chicago, 1914  
Professor of Geography, 1903 (1914)
- ROY L. ABBOTT, B.A., Iowa State Teachers College, 1915; M.S., University of Wisconsin, 1917; Ph.D., 1925  
Professor of Biology, 1916 (1920)
- WINFIELD SCOTT, B.S., University of Illinois, 1916; M.S., 1918; Ph.D., Iowa State College, 1926  
Professor of Agriculture, 1918 (1919)
- H. EARL RATH, B.S., Iowa State College, 1916; M.S., 1923  
Assistant Professor of Health Education, 1921 (1932)
- MARGUERITE UTTLEY, B.A., Iowa State Teachers College, 1915; M.S., University of Chicago, 1921  
Associate Professor of Geography, 1921 (1932)
- C. W. LANTZ, B.A., University of Illinois, 1918; M.A., 1914; Ph.D., 1925  
Professor of Biology, 1921 (1933)
- WINFRED M. GILBERT, B.S., Iowa State College, 1918; M.S., 1921  
Assistant Professor of Biology, 1926 (1928)

## Orchestral Music

- EDWARD KURTZ, B.Mus., Detroit Conservatory, 1926; M.Mus., Cincinnati Conservatory of Music, 1927; M.A., State University of Iowa, 1933  
Professor of Violin, Conductor of the College Symphony Orchestra, and Head of the Department, 1924
- ROLAND SEARIGHT, B.A., Grinnell College, 1922; M.A., Eastman School of Music, University of Rochester, 1930  
Assistant Professor of Violoncello and Orchestral Conducting, 1927
- MYRON RUSSELL, B.Mus., Kansas State Agricultural College, 1927; M.Mus., Eastman School of Music, University of Rochester, 1932  
Instructor in Woodwind Instruments and Director of the College Band, 1929
- FRANK W. HILL, B.Mus., Eastman School of Music, University of Rochester, 1930; M.Mus., 1932  
Instructor in Violin, Viola, Ensemble, and Instrumentation, 1929

## Physical Education for Men

- L. L. MENDENHALL, LL.B., State University of Iowa, 1917; M.A., 1932  
Professor of Physical Education for Men and Head of the Department, 1921 (1933)
- † PAUL F. BENDER, B.A., State University of Iowa, 1918; M.A., Columbia University, 1931  
Assistant Professor of Physical Education for Men, 1921

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† On leave of absence.

- ARTHUR DICKINSON, B.A., Iowa State Teachers College, 1917; M.A., State University of Iowa, 1933  
Instructor in Physical Education for Men, 1924
- LAWRENCE W. WHITFORD, B.A., Iowa State Teachers College, 1924  
Instructor in Physical Education for Men, 1926
- DAVID H. McCUSKEY, B.S., Iowa State Teachers College, 1930; M.A., Columbia University, 1933  
Instructor in Physical Education for Men, 1930
- JOHN W. BAKER, B.A., University of Southern California, 1932  
Instructor in Physical Education for Men, 1932

#### Physical Education for Women

- MONICA R. WILD, B.A., Iowa State Teachers College, 1912; M.S., University of Wisconsin, 1930  
Professor of Physical Education for Women and Head of the Department, 1913 (1931)
- DORIS E. WHITE, B.A., Simpson College, 1911; M.A., Columbia University, 1931  
Associate Professor of Physical Education for Women, 1915 (1932)
- GRACE VAN NESS, B.A., Cornell College, 1911; M.A., Columbia University, 1930  
Assistant Professor of Physical Education for Women, 1919 (1921)
- DOROTHY HUMISTON, B.A., University of Minnesota, 1920; M.A., Columbia University, 1925  
Assistant Professor of Physical Education for Women, 1925 (1932)
- DOROTHY MICHEL, B.S., University of Minnesota, 1924; M.A., Columbia University, 1931  
Instructor in Physical Education for Women, 1927
- MAUDE E. MOORE, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1931  
Instructor in Physical Education for Women, 1927
- MRS. JANE PETTIT, B.A., Iowa State Teachers College, 1928; M.A., State University of Iowa, 1932  
Instructor in Physical Education for Women, 1928
- THELMA SHORT, B.S., Columbia University, 1921; M.A., 1929  
Instructor in Physical Education for Women, 1929

#### Physics and Chemistry

- LOUIS BEGEMAN, B.S., University of Michigan, 1889; M.S., 1897; Ph.D., University of Chicago, 1910  
Professor of Physics and Head of the Department, 1899 (1909)
- S. FREEMAN HERSEY, B.Ph., Beloit College, 1892  
Associate Professor of Physics, 1899 (1932)
- ROBERT W. GETCHELL, B.A., Iowa State Teachers College, 1911; M.S., University of Wisconsin, 1914; Ph.D., 1930  
Professor of Chemistry, 1909 (1912)
- O. B. READ, B.Ph., Hillsdale College, 1902; M.A., University of Wisconsin, 1910  
Professor of Chemistry, 1913 (1918)
- W. H. KADESCH, B.S., Ohio Wesleyan University, 1906; M.Ph., University of Chicago, 1910; Ph.D., 1915  
Professor of Physics, 1921

#### Religious Education

- HOWLAND HANSON, B.A., Princeton University, 1892; D.D., Des Moines University, 1927  
Professor and Supervisor of Religious Education, 1928



## Romance Languages

- INGEBRIGT LILLEHEI, B.A., University of Minnesota, 1908; M.A., 1909; Ph.D., University of Illinois, 1914  
Professor of Romance Languages and Head of the Department, 1918 (1925)
- ISABEL THOMES, B.A., University of Kansas, 1912; M.A., University of Michigan, 1924  
Associate Professor of Romance Languages, 1918 (1932)
- HOMER C. HADDOX, B.A., Ohio State University, 1913; M.A., 1917  
Assistant Professor of Romance Languages, 1923

## Social Science

- M. R. THOMPSON, B.A., Western Union College, 1913; M.A., State University of Iowa, 1915; Ph.D., 1917  
Professor of Economics and Head of the Department, 1921 (1923)
- SARA M. RIGGS, B.L., University of Michigan, 1894  
Associate Professor of History, 1887 (1932)
- MARY B. HUNTER, B.A., Iowa State Teachers College, 1912; M.A., University of Chicago, 1918  
Associate Professor of Economics, 1918 (1932)
- GEORGE C. ROBINSON, B.A., University of Wisconsin, 1916; M.A., Harvard University, 1920; Ph.D., 1932  
Professor of Government, 1922 (1933)
- CARL H. ERBE, B.A., Iowa State Teachers College, 1920; M.A., State University of Iowa, 1924; Ph.D., 1925  
Professor of Government, 1925 (1933)
- FRED W. WELLBORN, B.A., Baker University, 1918; M.A., University of Kansas, 1923; Ph.D., University of Wisconsin, 1926  
Associate Professor of History, 1926 (1932)
- RALPH R. FAHRNEY, B.A., Mount Morris College, 1919; M.A., University of Chicago, 1922; Ph.D., 1929  
Assistant Professor of History, 1929
- MARSHALL R. BEARD, B.A., Marion College, 1925; M.A., University of Wisconsin, 1928; Ph.D., 1930  
Instructor in History, 1930
- ROBERT W. HARBESON, B.A., Western Reserve University, 1925; M.A., Harvard University, 1926; Ph.D., 1931  
Instructor in Economics, 1931
- LELAND L. SAGE, B.A., Vanderbilt University, 1922; M.A., University of Illinois, 1928; Ph.D., 1932  
Instructor in History, 1932

## Teaching

- EVA MAY LUSE, B.A., State University of Iowa, 1906; M.A., 1910; Ph.D., 1925  
Professor of Teaching and Head of the Department, 1906 (1919)
- E. GRACE RAIT, B.A., Iowa State Teachers College, 1920; M.A., Columbia University, 1927  
Associate Professor of Teaching, 1914 (1932)
- EULALIE TURNER, B.S., State University of Iowa, 1923; M.A., Columbia University, 1929  
Assistant Professor of Teaching, 1915 (1923)
- ALTA L. WILMARTH, B.A., Iowa State Teachers College, 1921; M.A., State University of Iowa, 1926  
Assistant Professor of Teaching, 1919 (1932)

- ROSE L. HANSON, B.S., University of Nebraska, 1920; M.A., State University of Iowa, 1932  
Instructor in Teaching, 1920
- MARNA PETERSON, B.Ph., University of Chicago, 1913; M.A., Columbia University, 1925  
Associate Professor of Teaching, 1920 (1932)
- LOUISE HEARST, B.A., Iowa State Teachers College, 1921; M.S., University of Chicago, 1929  
Assistant Professor of Teaching, 1921 (1926)
- SELMA SCHUMANN, B.A., Iowa State Teachers College, 1928; M.A., Columbia University, 1932  
Instructor in Teaching, 1922
- MARY P. CALDWELL, B.A., Iowa State Teachers College, 1919; M.A., Columbia University, 1926  
Assistant Professor of Teaching, 1922 (1932)
- MINNIE E. STARR, B.M., Northwestern University, 1931; M.S., 1932  
Assistant Professor of Teaching, 1922 (1927)
- EDNA MANTOR, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1931  
Instructor in Teaching, 1923
- CYRIL L. JACKSON, B.A., Grinnell College, 1913; M.A., State University of Iowa, 1924  
Assistant Professor of Teaching and High School Principal, 1924 (1932)
- EDITH L. BARBER, B.S., Columbia University, 1924; M.A., 1929  
Assistant Professor of Teaching, 1924 (1932)
- ANNABELLE POLLOCK, B.A., Iowa State Teachers College, 1921; M.A., State University of Iowa, 1930  
Assistant Professor of Teaching, 1924 (1932)
- DORA E. KEARNEY, B.A., University of Minnesota, 1920; M.A., 1924  
Assistant Professor of Teaching, 1925 (1932)
- MARIE HJELLE, B.A., Iowa State Teachers College, 1925; M.A., Columbia University, 1931  
Instructor in Teaching, 1925
- MARY C. ANDERSON, B.A., Iowa State Teachers College, 1914; M.A., State University of Iowa, 1926  
Assistant Professor of Teaching, 1926
- ZELWYN GRAHAM, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1932  
Instructor in Teaching, 1926
- GLADYS I. EVANS, B.A., Grinnell College, 1921; M.A., State University of Iowa, 1926  
Assistant Professor of Teaching, 1926
- NATHANIEL O. SCHNEIDER, B.S., University of Minnesota, 1921; M.A., State University of Iowa, 1931  
Assistant Professor of Teaching, 1926
- AGNES GULLICKSON, B.A., Iowa State Teachers College, 1926; M.A., Columbia University, 1932  
Instructor in Teaching, 1926
- VERNA J. ADNEY, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1930  
Instructor in Teaching, 1927
- ALICE BAKKEN, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1932  
Instructor in Teaching, 1927



- MARGARET DIVELBESS, B.A., Grinnell College, 1923; M.A., Columbia University, 1927  
Assistant Professor of Teaching, 1927
- MABELLE M. GROSS, B.A., Des Moines University, 1918; M.A., State University of Iowa, 1926  
Assistant Professor of Teaching, 1927
- RUTH J. MICHAELSON, B.A., Iowa State Teachers College, 1927; M.A., Columbia University, 1932  
Instructor in Teaching, 1927
- OLGA J. JOHNSON, B.Ph., University of Chicago, 1928; M.A., Columbia University, 1932  
Instructor in Teaching, 1928
- MYRTLE M. STONE, B.A., Washington State College, 1923; M.B.A., University of Washington, 1927  
Assistant Professor of Teaching, 1928
- LUCILE E. ANDERSON, B.A., Iowa State Teachers College, 1924; M.A., University of Chicago, 1927  
Instructor in Teaching, 1930
- ETHEL M. FITZSIMONS, B.A., Hastings College, 1922; M.A., University of Nebraska, 1930  
Instructor in Teaching, 1930
- MARGUERITE R. HYDE, B.Ed., University of Washington, 1921; M.A., Columbia University, 1929  
Instructor in Teaching, 1930
- EMMA OPFER, B.Ph., University of Chicago, 1921; M.A., Columbia University, 1929  
Instructor in Teaching, 1930
- IVERNIA TYSON, B.A., Colorado State Teachers College, 1927; M.A., State University of Iowa, 1930  
Instructor in Teaching, 1930
- ANNA M. NIELSEN, B.A., Iowa State Teachers College, 1929  
Instructor in Rural Teaching, 1930
- M. ELISEBETH BRUGGER, B.A., University of Nebraska, 1910; M.A., Columbia University, 1928  
Instructor in Teaching and Director of the Nursery School, 1931
- VELMA COLBROOK, B.A., University of Illinois, 1923; M.A., 1927  
Instructor in Teaching, 1931
- BERNICE BRYAN, B.S., Columbia University, 1931; M.A., 1933  
Instructor in Teaching, 1931
- JOSEPHINE DRESDEN, B.M.E., Northwestern University, 1931; M.Mus., 1933  
Instructor in Teaching, 1931
- ELIZABETH O. NELSON, B.A., University of Wisconsin, 1925; M.A., Harvard University, 1932  
Instructor in Teaching, 1932
- LULU MARIE JENKINS, B.A., University of California, 1921; M.A., 1925; Ph.D., Columbia University, 1930  
Instructor in Teaching, 1933
- DOROTHY KOEHRING, B.A., Kansas State University, 1921; M.A., Columbia University, 1922; Ph.D., Yale University, 1933  
Instructor in Teaching, 1933
- OLIVE PAINE, B.Ph., University of Chicago, 1913; M.A., Columbia University, 1924; Ph.D., Yale University, 1930  
Assistant Professor of Teaching, 1933

## Extension Division

- IRVING H. HART, B.A., Grinnell College, 1898  
Director of the Extension Division, 1914 (1916)
- ALBERT C. FULLER, B.A., State University of Iowa, 1911  
Associate Director of the Extension Division, 1917 (1918)
- F. E. FULLER, B.A., Albion College, 1902  
Assistant Professor of Natural Science, 1917 (1932)
- FRED D. CRAM, B.A., Iowa State Teachers College, 1909; M.A., State University of Iowa, 1920  
Associate Professor of Education, 1920 (1932)
- ELMER L. RITTER, B.A., Indiana University, 1914; M.A., State University of Iowa, 1917; Ph.D., 1920  
Professor of Education, 1921
- LOU A. SHEPHERD, B.A., Iowa State Teachers College, 1919; M.A., Columbia University, 1924  
Associate Professor of Primary Education, 1924 (1932)
- H. C. MOELLER, B.A., Iowa State Teachers College, 1924  
Instructor in Rural Education, 1926

Branch Summer School, 1933  
at Atlantic

- |  |  |
|--|--|
| A. C. FULLER, B.A., Director<br>Education          | E. L. RITTER, Ph.D.<br>Education<br>Mathematics                          |
| FRED D. CRAM, M.A.<br>Social Science               | LOU A. SHEPHERD, M.A.<br>Education<br>Industrial Arts                    |
| F. E. FULLER, B.A.<br>Natural Science<br>Education | MINNIE E. STARR, M.S.<br>Music   |
| IDA HUGLIN, M.A.<br>English                        | EULALIE TURNER, M.A.<br>Natural Science<br>Industrial Arts<br>Penmanship |
| H. C. MOELLER, B.A.<br>Education                   |  |

## OTHER OFFICERS AND ASSISTANTS

## Library Staff

- ANNE STUART DUNCAN, B.L., University of Michigan, 1897; Library Certificate, University of Chicago, 1903  
Head Librarian, 1913
- ROWENA A. EDWARDS, Iowa State College, 1894-96; Simmons College Library School, 1914-15  
Head Cataloguer, 1916
- JESSIE L. FERGUSON, B.A., James Millikin University, 1907  
Reference Librarian, 1923 (1930)
- IRENE A. EHRESMAN, B.A., Carleton College, 1909; Library Diploma, University of Wisconsin, 1926  
Librarian in charge of Periodicals and Extension Service, 1926 (1932)
- MARYBELLE McCLELLAND, B.A., Pomona College, 1925; B.S., Columbia University, 1929  
Circulation Librarian, 1929 (1930)
- MARY DIETERICH, B.A., Grinnell College, 1925; B.S., Columbia University, 1929  
Assistant Cataloguer, 1930
- EVELYN J. MULLINS, B. A., Grinnell College, 1926; B.S., Columbia University, 1928  
Assistant Circulation Librarian, 1930
- ELSIE JEANNETTE DUNCAN, B.A., University of Pittsburgh, 1921; Library Certificate, Carnegie Library School, 1924  
Juvenile Librarian, 1930

## Bartlett Hall and Commons Staff

- MARY E. HAIGHT, Home Economics Diploma, Bradley Polytechnic Institute, 1908  
Director of Bartlett Hall East, 1921
- MRS. F. C. MOIR  
Housekeeper, 1918 (1931)
- E. RUTH MITCHELL  
Director of Foods, 1927 (1931)
- HELEN M. LYNCH, B.S., University of Minnesota, 1927; M.D., 1931  
Health Director of Bartlett Hall, 1931
- EDITH M. McCOLLUM, B.A., Florida State College for Women, 1927; M.A., Columbia University, 1932  
Director of Bartlett Hall West, 1931
- OLIVE MORGAN, B.A., Iowa State Teachers College, 1933  
Secretary, 1933

## Clerical Division

- ANNA R. WILD  
Executive Secretary, 1896
- MRS. H. G. SIMONSEN  
Record Clerk, Office of the Registrar, 1916
- BESS E. CARRINGTON, B.A., Iowa State Teachers College, 1916  
Chief Record Clerk, Office of the Registrar, 1920
- MRS. LOUISE McKITRICK  
Secretary, Extension Division, 1921
- MRS. ANNA HOLMAN, Rural School Diploma, Iowa State Teachers College, 1916  
Stenographer, Extension Division, 1922



- CARRIE A. WATSON, B.A., Iowa State Teachers College, 1922  
Secretary to the Registrar, 1923
- RUTH H. DUNLOP, Upper Grade Teacher's Diploma, Minnesota State Teachers College, 1919; B.A., Iowa State Teachers College, 1933  
Clerk, General College Office, 1923
- MRS. MARIE HARPER  
Stenographer, Extension Division, 1923
- MRS. MABEL VOGT, Primary Education Diploma, Iowa State Teachers College, 1922  
Clerk, Multigraph Department, 1923
- JESSIE JUHL  
Secretary to the President, 1923
- VELDA B. BENTLEY  
Clerk, Office of the Registrar, 1924
- MRS. GLADYS Y. AMICK  
Record Clerk, Office of the Registrar, 1925
- IDA CHRISTENSEN  
Cashier, Office of the Financial Secretary, 1926
- ROSAMOND M. TOLL  
Stenographer, Placement Bureau, 1926
- MRS. GLADYS BAUGHMAN, Junior College Diploma, Iowa State Teachers College, 1918; Commercial Diploma, 1919  
Bookkeeper, Office of the Financial Secretary, 1927
- MRS. VIE U. CROUTER, B.A., Iowa State Teachers College, 1913; M.Di., 1914  
Secretary to the Dean of Men, 1928
- DOROTHY M. FECHT  
Stenographer, Office of the President, 1928
- LOTTIE L. HAYES  
Stenographer, General College Office, 1928
- MRS. AILEEN HALE  
Operator, Multigraph Department, 1928
- MRS. RAY A. ELLIS  
Bookkeeper, Office of the Financial Secretary, 1928
- GLADYCE GOODER  
Secretary, Department of Education, 1928 (1932)
- GRACE DERSCHIED  
Stenographer, Placement Bureau, 1929
- WANDA HARKNESS  
Telephone Operator, General College Office, 1929
- MARGUARITE CRAWFORD  
Stenographer, Extension Division, 1929
- RUTH JOHNS, B.A., Iowa State Teachers College, 1927  
Secretary to the Dean of Women, 1929
- HELEN L. MEYER  
Operator, Multigraph Department, 1929
- LOIS DALTON  
Stenographer, Publicity Office, 1929
- MRS. W. C. SLOAN  
Record Clerk, Office of the Registrar, 1929

MARY D. ANDERSON, B.A., Iowa State Teachers College, 1932  
 Stenographer, Office of the Dean of Women, 1930 (1932)

ELIZABETH W. DAVIS  
 Stenographer, Multigraph Department, 1930

MRS. BERNICE DEBOWER  
 Secretary, Department of Teaching, 1930

MRS. LORETTA BREWER  
 Stenographer, General College Office, 1930

MILDRED G. ZUG  
 Stenographer, General College Office, 1931

MABLE TAYLOR, B.S., Iowa State Teachers College, 1932  
 Secretary, Placement Bureau, 1932

MERLE M. SLITER, B.A., Iowa State Teachers College, 1926; M.M.Ed., Northwestern  
 University, 1933  
 Secretary and Pianist, Department of Physical Education for Women, 1933

## COMMITTEES OF THE FACULTY, 1933-34\*

## ROTATING COMMITTEES

**Curricula and Courses of Study**

M. J. Nelson  
 M. R. Thompson  
 S. A. Lynch  
 E. J. Cable  
 I. S. Condit  
 C. S. Cory, Secretary

**Program of Recitations**

E. J. Cable  
 C. H. Bailey  
 Eva May Luse  
 C. S. Cory, Secretary

**Registration**

I. L. Lillehei  
 R. W. Getchell  
 N. O. Halvorson  
 J. B. Paul  
 C. H. Bailey  
 C. S. Cory, Secretary

**Receiving**

H. C. Cummins  
 J. W. Charles  
 Leland L. Sage

**Acceptance of College Credit  
and Tests in College Subjects**

J. B. Paul  
 Geo. C. Robinson  
 C. W. Lantz  
 F. I. Merchant, ex officio  
 C. S. Cory, ex officio

**Student Welfare**

Dean of Women, ex officio  
 Dean of Men, ex officio  
 Selina Terry  
 H. A. Riebe  
 Carl H. Erbe

**Student Loan Fund**

Alison Aitchison  
 J. W. Charles  
 Katherine Buxbaum  
 Dean of Women, ex officio  
 Dean of Men, ex officio  
 Financial Secretary, ex officio

**Extension Council**

Director of the Extension  
 Division, ex officio  
 C. H. Bailey  
 J. B. Paul  
 Carl H. Erbe  
 E. J. Cable  
 Beatrice J. Geiger  
 C. S. Cory, Secretary, ex officio

**Interpretation of Faculty  
Regulations**

M. J. Nelson  
 Louis Begeman  
 I. H. Hart  
 C. S. Cory, Secretary, ex officio

\*In all committees the member named first is chairman.



## STANDING COMMITTEES

**Student Efficiency**

Dean of Men, ex officio  
 Dean of Women, ex officio  
 M. J. Nelson  
 Eva May Luse  
 Alison E. Aitchison  
 W. H. Kadesch  
 R. R. Fahrney

**Board of Health**

Health Director  
 Dean of Women  
 Dean of Men  
 Head of Department of Physical Education for Women  
 Head of Department of Physical Education for Men  
 Health Supervisor of Bartlett Hall  
 H. Earl Rath

**Athletic Board**

H. Earl Rath  
 S. A. Lynch  
 W. H. Kadesch  
 E. C. Denny  
 Carl H. Erbe  
 Financial Secretary, ex officio  
 Director of Athletics,  
 Secretary, ex officio

**Board of Control of Student Publications**

Geo. H. Holmes  
 Selina M. Terry  
 H. Earl Rath  
 Benjamin Boardman

**Museum**

E. J. Cable  
 Alison E. Aitchison  
 Winfield Scott  
 R. L. Abbott  
 C. W. Lantz

**Recreation Park**

C. S. Cory  
 C. H. Bailey  
 J. W. Charles  
 L. L. Mendenhall  
 Monica R. Wild

**Commencements**

H. A. Riebe  
 F. W. Lambertson  
 Luther A. Richman  
 Mrs. Iris Branagan  
 Sadie B. Campbell  
 Leslie I. Reed  
 Benjamin Boardman

**Special Memorial Days**

I. H. Hart  
 F. W. Lambertson  
 Geo. R. Mach

**Transportation**

I. S. Condit  
 I. H. Hart  
 Benjamin Boardman

**Editing of Faculty Rules and Regulations**

F. I. Merchant  
 I. H. Hart  
 C. S. Cory

## ADVISERS

## For Normal Training and Work of Special Students

Mary B. Hunter  
Emma Lambert

Ida C. Rohlf  
The Registrar

## For Students on Two-Year Curricula

## Teachers in Rural and Consolidated Schools

John R. Slacks

## Teachers in Nursery School and Kindergarten

Elisebeth Brugger  
Dorothy Koehring

## Teachers in Primary Grades

May Smith  
E. Grace Rait  
Amy F. Arey  
Bernice Bryan  
Olive Paine

## Teachers in Grades above the Primary

E. C. Denny  
H. A. Riebe  
C. O. Todd  
M. J. Wilcox  
D. P. Phillips

## For Students on Degree Curricula

Freshmen who have not chosen majors—E. O. Finkenbinder, H. S. Buffum, A. E. Brown

Art, Manual Arts—C. H. Bailey

Nursery School and Kindergarten Education, Primary Education, Elementary Education, Opportunity Room Education—M. J. Nelson

English, Speech—S. A. Lynch

Home Economics—Beatrice J. Geiger

Latin, German—F. I. Merchant

Mathematics, Commercial Education—I. S. Condit

Music—C. A. Fullerton

Biological Science, Earth Science, Agriculture—E. J. Cable

Orchestral and Band Music—Edward F. Kurtz

Physical Education for Men—L. L. Mendenhall

Physical Education for Women—Monica R. Wild

Physics, Chemistry—Louis Begeman

French, Spanish—I. L. Lillehei

History, Government, Economics and Sociology—M. R. Thompson

Teaching and Critic Training—Eva May Luse

## EXCUSING OFFICERS

For men students—Dean of Men, Leslie I. Reed

For women students—Dean of Women, Sadie B. Campbell

## COMMITTEES FOR SPECIAL EVENTS

**Freshman Day (September 11, 1933)**

Sadie B. Campbell  
Leslie I. Reed  
I. L. Lillehei  
M. J. Nelson  
Anne Stuart Duncan

**Boy Scout Day (September 23, 1933)**

Hugh S. Buffum  
J. W. Charles  
L. L. Mendenhall  
Geo. H. Holmes  
Benjamin Boardman

**Alumni Dinner at Des Moines (November 3, 1933)**

A. C. Fuller  
Leslie I. Reed  
Alison E. Aitchison  
Louise Hearst  
Olive Barker  
Fred D. Cram  
Sara M. Riggs

**Homecoming (November 4, 1933)**

Leslie I. Reed  
Sadie B. Campbell  
A. C. Fuller  
L. L. Mendenhall  
Chas. F. Holden

**Dad's Day (November 18, 1933)**

Leslie I. Reed  
Sadie B. Campbell  
Ira S. Condit  
Mary B. Hunter  
F. W. Lambertson  
Harold G. Palmer  
L. L. Mendenhall

**Mother's Day (May 13, 1934)**

Sadie B. Campbell  
Leslie I. Reed  
Monica R. Wild  
C. A. Fullerton  
Edward Kurtz



## GENERAL INFORMATION

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### HISTORICAL SKETCH

The Iowa State Normal School was established in 1876 by act of the General Assembly. Its location at Cedar Falls was due in large measure to the availability of a three-story brick building and forty acres of land originally used for a soldiers' orphans' home. Here on September 6, 1876, the normal school was formally opened with an enrollment of twenty-seven students. In the first fifty-two years of its existence the institution had but two administrative heads: J. C. Gilchrist, Principal, 1876 to 1886; and H. H. Seerley, Principal 1886 to 1889, and President, 1889 to 1928. In 1909 the name of the institution was changed to the Iowa State Teachers College, and the Board of Trustees of the Iowa State Normal School was discontinued. At the same time the government of the Iowa State Teachers College, as well as of the State University of Iowa and of the Iowa State College of Agriculture and Mechanic Arts, was vested in the State Board of Education consisting of nine members appointed by the Governor.

### BUILDINGS AND GROUNDS

The campus of the Iowa State Teachers College contains 127 acres of elevated land near the southern limits of the city of Cedar Falls. The principal buildings used for administrative, instructional, and other purposes are of brick with trimmings of Bedford stone. They are surrounded by lawns and by ornamental trees of many varieties and are arranged in the form of an inner and an outer quadrangle.

**The Administration Building**, situated on the east side of the inner quadrangle, was erected in 1895. Its dimensions are 75 feet by 105 feet. On the first floor are the offices of the President, the Financial Secretary, the Registrar, and the Executive Secretary, and on the second floor the offices of the Placement Bureau. On the second and third floors are also the offices and recitation rooms of the Department of Mathematics and Commercial Education.

**Gilchrist Hall**, situated in the inner quadrangle southwest of the Administration Building, was erected in 1882. Its dimensions are 78 feet by 114 feet. On the first floor are the offices of the Dean of Men and the Dean of Women, and the offices of the Extension Division. On the second and third floors are the Faculty Room, the rooms of the College Club, the Publicity Office, the offices of the College Eye and of the Old Gold, Gilchrist Chapel, and instruction rooms of the Department of Music.

**The Auditorium Building**, situated north of the Administration Building, was erected in 1900. Its dimensions are 71 feet by 230 feet with a rear extension of 70 feet by 90 feet. In the center is the College Auditorium with a large pipe organ and with a seating capacity of 1,500. In the basement and the three stories of this building are located the rooms of the Young Women's Christian Association and of the Catholic Students' Association, the halls of the literary societies, and the recitation rooms and the offices of the departments of English,

of Romance Languages, of Latin, Greek, and German, of Education, of Religious Education, and of Social Science.

**Central Hall**, adjacent to the Administration Building and to the Auditorium Building, was erected in 1868. Its dimensions are 40 feet by 85 feet with an extension of 34 feet by 40 feet. It contains the quarters of the Young Men's Christian Association, the College Book Store, offices and instruction rooms of the departments of Music and Orchestral Music, and a specially equipped practice room for band and orchestra.

For convenience of intercommunication the Administration Building, Gilchrist Hall, the Auditorium Building, and Central Hall are connected by means of corridors.

**The Science Building** is on the north side of the inner quadrangle and was erected in 1906. Its dimensions are 65 feet by 113 feet. It houses the offices, recitation rooms, laboratories, and libraries of the Department of Physics and Chemistry, and recitation rooms and laboratories for work in animal biology, physiology, and hygiene and sanitation.

**The Vocational Building** is at the southwest corner of the inner quadrangle and was erected in 1915. Its dimensions are 62 feet by 144 feet. It contains offices, recitation rooms, and laboratories of the departments of Art and Manual Arts, Home Economics, and Natural Science.

**The Training School Building** is on the south side of the inner quadrangle and was erected in 1912. Its dimensions are 115 feet by 137 feet. It contains the office of the director, an auditorium, a gymnasium, recitation rooms and laboratories for home economics and manual training, a room for illustrative teaching, and rooms for the kindergarten, the primary school, the grammar grades, and the high school.

**The Library**, situated at the southeast corner of the inner quadrangle, was erected in 1907. It is connected with the Administration Building by a subway, which is opened for use during inclement weather. The dimensions are 72 feet by 169 feet, with an extension of 103 feet by 27 feet. The general reading room is decorated with mural paintings by William De Leftwich Dodge and has seats for 300 readers.

The Library contains 103,000 volumes, 530 current periodicals, 10,500 pamphlets, 5,000 small prints for general circulation, and 450 large wall pictures. Supplementing the general library there are special libraries devoted to art, music, fiction, education, chemistry, physics, juvenile literature, and state and federal documents.

The library force consists of eight staff members and thirty-five to forty student assistants. The Library is open on week days except Saturday from 7:30 a.m. to 9:30 p.m., on Saturday from 7:30 a.m. to 5:00 p.m., and on Sunday from 2:00 to 5:00 p.m.

On the third floor of the Library is the Museum. Included in its varied material are collections of special value for the study of natural science in different fields. This building also contains offices, recitation rooms, and laboratories of the Department of Natural Science.

**The Women's Gymnasium**, situated at the northwest corner of the inner quadrangle, was erected in 1903. Its dimensions are 68 feet by 230 feet. It has a basement and three stories containing offices and recitation rooms, an examining room and a dark room, four fully



equipped exercise rooms, three basketball courts, a baseball diamond, a running track, a dancing studio, and a swimming pool, lockers, dressing rooms, and store rooms. Connected with the Women's Gymnasium are athletic fields for hockey, soccer, baseball, volleyball, and other field sports, a straightaway, an archery range, a putting green, and tennis courts.

**The Men's Gymnasium**, situated on the west side of the outer quadrangle, was erected in 1925. Its dimensions are 170 feet by 202 feet. It is a two-story building containing a main gymnasium (90 feet by 124 feet) and a smaller gymnasium (40 feet by 88 feet), offices and recitation rooms, basketball courts and handball courts, a wrestling room, a first-aid room, a team room, and a club room, a swimming pool, showers, dressing rooms, and storage rooms. The main gymnasium when converted into an auditorium has a seating capacity of 3,000. Connected with the Men's Gymnasium is an athletic field containing four football fields, four baseball fields, eleven tennis courts, and a quarter-mile track.

**The President's Home**, situated in the outer quadrangle east of the Administration Building, was erected in 1908.

**The Home of the former President Emeritus**, situated in the outer quadrangle north of the President's Home, was erected in 1890.

**The Home of the Superintendent of Buildings and Grounds**, situated in the outer quadrangle north of the Auditorium Building, was erected in 1906.

**Bartlett Hall** is in the outer quadrangle north of the Women's Gymnasium. The first unit was erected in 1914, and the last unit in 1924. Its dimensions are 41 feet by 525 feet with four wings, each 41 feet by 125 feet. It is a fireproof building equipped with modern conveniences. In its single and double rooms it accommodates more than 500 women students.

**The Commons**, situated in the outer quadrangle northwest of the Women's Gymnasium, was erected in 1933. Its dimensions are 124 by 178 feet. It is designed to provide social education and recreational training for the members of the student body. It is a two-story building with basement. On the second floor are the Student Lounge, the Recreation Hall, and the Lobby Lounge which, together with the Mezzanine Lounge, comprise the central portion of the building. In addition there are the Faculty Men's Lounge, the Faculty Women's Lounge, the offices of the Director of the Commons, of the Student Council, and of the Women's League, the Fountain Room, and two activity rooms. On the first floor are located the dining rooms, the kitchen, and the office of the Director of Foods. The basement contains service rooms essential for the operation of the building.

**The General Hospital**, the Nurses' Home with the office of the Health Director, and the Isolation Hospital are located on the south side of the campus west of the Vocational Building. The General Hospital was erected in 1912 and enlarged in 1925. Its dimensions are 33 feet by 60 feet. It has an operating room, an X-ray room, and beds for twelve patients.

**The Heating and Power Plant**, supplying the whole institution with heat, light, and power, is situated in the outer quadrangle southwest of the Isolation Hospital. It is equipped with two 500 horse-power and two 300 horse-power boilers and a turbine generating 500 kilowatts



of alternating electric current. It has an electric crane, automatic stokers, and other mechanical appliances for the efficient operation of the plant. The circular concrete smokestack rises 195 feet above the floor of the boiler room.

**The Shops and Garage Building**, east of the Heating and Power Plant and adjacent to it, contains the office of the Superintendent of Buildings and Grounds, shops for electricians, plumbers, steam-fitters, carpenters, and painters, supply rooms and locker rooms, and a garage for the college trucks and busses.

**The Campanile**, standing at the center of the campus, was erected in 1926. The main tower is 20 feet square and 100 feet high. It is built of rug-faced brick with trimmings of Bedford stone and rests on a granite foundation. The fifteen bells of the Campanile chimes range in weight from 225 pounds to 5,000 pounds. The chimes are played at stated times throughout the day by the chime master and his assistants. The Fasoldt clock, presented to the institution in 1925, sounds the Westminster chimes at the quarters of the hour. The Campanile was donated to the institution by the alumni, faculty, students, and other friends of the institution as a memorial of the founders and builders of the Iowa State Teachers College.

**The Recreation Park** including the college golf course is located half a mile east of the campus just outside the southern limits of the city in Rownd's Field, a tract of 40 acres donated to the institution in 1925 by Charles A. Rownd. The golf course is a well-kept nine-hole course of standard length with natural and artificial hazards.

Separate from the campus on the east the college has a tract of seven acres in which it is developing a Horticultural Garden and a Botanical Garden. These gardens already contain a large collection of Iowa trees, shrubs, and herbaceous plants.

## ENROLLMENT AND REGISTRATION

**Organization by Terms.**—The calendar year is divided into four terms of twelve weeks each. Any three of these terms constitute an academic year.

**Enrollment Days.**—The dates of enrollment are given on page 5. A fee of \$2 is charged for late enrollment. The opening day of the fall term is designated as Freshman Day. On this day all first-year students enroll and register. A part of the day is devoted to activities designed to acquaint new students with the institution. On the second day of the fall term the upper classmen enroll and register. On the first day of the winter term, the spring term, and the summer term all students enroll and register.

**Placement Tests.**—All students who enroll for the first time are required to take the placement tests. These tests are regularly given on the second day of the fall term and on the first Saturday of the winter, spring, and summer terms at hours designated in the term program. A fee of \$2 is charged for the placement tests if they are not taken at the regular time.

## FEES

All fees are payable at the office of the Financial Secretary. The matriculation fee and the tuition and college fees are payable at the time of enrollment, laboratory and music fees before entrance upon

the work of a term, graduation fees at least two weeks before the date of graduation. An exchange fee of 5 cents is charged for checks on banks outside of Black Hawk County except banks in Denver, Janesville, Dike, and New Hartford.

Matriculation fee for first enrollment in residence.....	\$5
Tuition, including the College Fee, for fall, winter, or spring term—	
Freshmen and sophomores.....	\$25
Juniors, seniors, and college graduates (including students who have earned 88 or more hours of credit).....	\$32
Weekly fee for persons enrolled as visitors.....	\$2
Fee for graduation from one-year and two-year curricula.....	\$5
Fee for graduation from four-year curricula.....	\$10
Fee for department certificate.....	\$2
For summer term fees, see the summer term bulletin.	

If a student withdraws from the institution the tuition fee is refunded as follows: If the student has been in attendance 2 days or less, 100 per cent of the fee is refunded; 3 to 5 days, 90 per cent; 6 to 10 days, 80 per cent; 11 to 15 days, 70 per cent; 16 to 20 days, 60 per cent; 21 to 25 days, 50 per cent; 26 to 30 days, 40 per cent, except that no part of the fee is refunded if credit is given for work done during the time of attendance. If a student is in attendance more than six weeks, there is no refund.

**Physical Education Fees.**—All men pay a fee of 50 cents a term, \$2 being deposited and \$1.50 refunded at the end of the term if locker key and towels are returned. Women who take swimming pay a fee of \$1.25 a term, \$2.50 being deposited and \$1.25 refunded at the end of the term if the locker key, towels, and bathing suits are returned. Other women who take Physical Education I pay a fee of 50 cents a term, \$1 being deposited and 50 cents refunded if locker key and towels are returned.

**Music Fees.**—The fee for applied music (private lessons) is \$10 a term for one lesson a week. Rent for auditorium or studio organ is \$3 a term. Practice organs are available for music students.

**Laboratory Fees.**—Students pay a small fee for materials and for breakage in connection with courses in chemistry, home economics, natural science, and manual training.

**Commercial Education Fees.**—Students in commercial education pay nominal fees for the use of equipment and for materials.

**Locker Fees.**—Corridor lockers are rented to students at 25 cents a term. Each student furnishes his own padlock.

**Medical Service and Hospital Fees.**—Medical advice and treatment are given to students free by the Health Director and by the Health Director of Bartlett Hall. The Health Director may be consulted at stated hours at his office. The Health Director of Bartlett Hall may be consulted by the women students of Bartlett Hall at stated hours and in emergencies at other times, and by other women students at stated hours at the office of the Health Director. Every case of sickness should be reported promptly to the Dean of Men or the Dean of Women. If no physician is in charge of the case, the head nurse will visit the student and give advice.

The college maintains a hospital for the benefit of its students, faculty, and employees. No specific hospital charge is made to a student for the first five days in the hospital in any term. After five days the charge is \$2 a day. The fee for a private nurse is paid by



the patient. With the approval of the Health Director any regularly authorized physician may be employed.

### THE COLLEGE DORMITORIES

Bartlett Hall, the dormitory for women students, is heated by steam from the college heating plant and is provided with adequate protection against fire. It contains attractive living rooms, reading rooms supplied with current newspapers and periodicals, kitchenettes, spread rooms, shampoo rooms, facilities for laundry and pressing, and on each corridor a large bathroom with tub and showers. The private rooms of the students have hot and cold water, a clothes closet for each occupant, study tables, and single beds equipped with mattress and pad. All bedding is furnished by the student. Living conditions in the dormitories and the Commons are supervised by trained and experienced directors, a resident woman physician, a housekeeper, and a director of foods.

The rent of double rooms with one window is \$24 a term for each student, of double rooms with two windows \$27 a term; the rent of single rooms is \$30 a term. The payment of \$10 in advance is required for the reservation of a room. This payment must be made at the time of the application for reservation. The balance is due at the opening of the term. If an applicant for whom a room has been reserved finds it impossible to begin or resume work in the institution as planned, the amount already paid is refunded if this is requested two weeks before the opening of the term. If a reserved room is not occupied within three days after the beginning of the term and arrangements have not been made for later occupancy, the reservation may be canceled at the discretion of the Dean of Women.

Application for rooms in the dormitories should be made to the Dean of Women far enough in advance to assure reservation. The dormitories will be open for the occupancy of rooms as follows: For the summer term of 1934, Tuesday at 9:00 a.m., June 5; for the fall term of 1934, Saturday noon, September 8; for the winter term of 1934-35, Saturday noon, December 1, 1934; for the spring term of 1935, Saturday noon, March 9; for the summer term of 1935, Tuesday at 9:00 a.m., June 4.

The Commons contains a cafeteria and dining rooms, where students may obtain wholesome, well-balanced meals at reasonable prices.

A booklet containing detailed information concerning campus living conditions will be furnished upon request.

### ACCREDITED ROOMING HOUSES

Students who do not reside at the home of a parent or guardian must room at an accredited rooming house unless permission to room elsewhere is granted by the Dean of Men or the Dean of Women. A list of accredited rooming houses will be furnished upon request.

In making final arrangements for a room a student should insist on a definite understanding concerning prices and the service to be rendered. A written agreement is always better than an oral understanding. The college is not a party to these agreements.

### SCHOLARSHIPS

To encourage young men to enter the teaching profession, a limited number of scholarships are granted to men from each county of the state, the appointments for each county being made by the county superintendent.



### EMPLOYMENT OF STUDENTS

The Dean of Women assists women students in obtaining employment. Women students desiring to work for room or board should register at the office of the Dean of Women, giving qualifications and indicating the kind of work desired.

Residents of Cedar Falls desiring the help of students in general housework, waiting on table, taking care of children, plain sewing, typewriting, or other work, are requested to file applications at the office of the Dean of Women.

Men students seeking employment and residents desiring the help of men students are assisted by the Dean of Men and by the Young Men's Christian Association.

Students should not in general attempt to meet any considerable part of their expenses by labor while in attendance at college. Freshmen in particular should be free to devote their entire time to their regular college work.

### STUDENT ORGANIZATIONS

**Student Council.**—The Student Council, elected by the student body and composed of three seniors, two juniors, one sophomore, and one freshman, manages all social affairs which involve the entire student body and performs other duties concerned with the maintenance of high social standards. The Associated Student Council, composed of members of the Student Council and other all-college organizations, assists the Student Council in its work.

**Women's League.**—The Women's League is an organization of which every woman student is a member. The league deals with problems pertaining to the life of women students. The executive committee of thirty-three members consists of the officers of the organization and one student representative from each of the following groups: Student Council, Inter-Sorority Council, Off-Campus Girls' Association, Bartlett Hall Council, Women's Athletic Association, Board of Control of Student Publications, and one each from the freshman, sophomore, junior, and senior classes. More than two hundred seventy-five women constitute the standing committees appointed by the executive committee and participate actively in the business of the League.

**Departmental Clubs.**—Departmental clubs are maintained in order to stimulate interest in various major lines of work and to acquaint students with new ideas in the different fields. These clubs are the Art League, Education Club, Pi Beta Alpha (Primary Education), English Club, Playcraft Club, Writers' Club, Press Club, Hamilton Club (English), Ellen Richards Club (Home Economics), Classical Club, Deutscher Verein, Cercle Francais, Mathematics Club, Commercial Club, Biology Club, Science Club, Chemistry Seminar, Social Science Club, Physical Education Club, and Women's Athletic Association.

**Honor Organizations.**—Superior achievement in various lines of educational work is recognized by membership in the following honor organizations: Kappa Delta Pi, a national honor scholastic fraternity; Delta Sigma Rho (Debate); Theta Alpha Phi (Drama); Sigma Tau Delta (English); Kappa Mu Epsilon (Mathematics); Pi Omega Pi (Commercial Education); Gamma Theta Epsilon (Geography); Lambda Delta Lambda (Physical Science); Pi Gamma Mu (Social Science); Phi Mu Alpha (Music); Shield Club, Orchesis, Red Cross Life-saving Corps (Physical Education for Women); and the I Club, composed of men who have won letters in intercollegiate sports.

**Music Organizations.**—Two men's glee clubs, Minnesingers and Troubadours, and four women's glee clubs, Cecilians, Euterpeans, Bel Cantos, and Aeolians, are trained in group singing. These organizations frequently appear in public programs. The Choral Society, composed chiefly of the combined glee clubs, presents annually the Messiah. The College Band and the Women's Band furnish music at athletic games and on other public occasions. The Orchestra Club and the College Orchestra afford opportunity for the study and presentation of orchestral music.

**Literary Societies.**—The Alpha, Shakespearean, Cliosopic, Zetalethean, Delphian, Eulalian, Irving, and Neo Chresto literary societies for women, and the Men's Forum give valuable training in public speaking and in the conducting of public meetings.

**Religious Organizations.**—Religious organizations maintained on the campus are the Young Men's Christian Association, the Young Women's Christian Association, the Catholic Students' Association, the Junior Council of Religious Life, and the Sunday Evening Club.

**Other Organizations.**—An organization of former 4-H girls continues the work of the 4-H clubs. During the summer term county organizations and out-of-state organizations are formed for social purposes.

**Student Publishing Association.**—The Student Publishing Association is governed by the Board of Control of Student Publications consisting of five students and four members of the faculty. The College Eye is a weekly newspaper managed and edited by students under the supervision of the Director of Publicity Service. The Old Gold is the college annual edited by the senior class. The Purple Pen, a quarterly magazine sponsored by Sigma Tau Delta, publishes significant literary productions of students.

### CONTROL OF EXTRA-CURRICULAR ACTIVITIES

Students are permitted to take part in extra-curricular activities whenever they can do so without detriment to their scholastic standing. If a student's scholarship falls below average, participation in extra-curricular activities may under faculty regulation be restricted or denied.

### PLACEMENT BUREAU

Prospective graduates and other students who have been in residence for three or more terms are assisted by the Placement Bureau in obtaining administrative, supervisory, and teaching positions. Assistance is also given upon request to superintendents and boards of education by furnishing credentials and by recommending suitable candidates. The recommendations are based upon estimates of scholarship, teaching ability, personal qualities, and professional attitude. While the bureau does not guarantee the election of candidates it gives them all the support that is justified by their college records, by their professional experience, and by the recommendations filed with the bureau. Superintendents of schools are invited to visit the office of the Placement Bureau for personal interviews with candidates.

A fee of \$3 is charged for registration with the bureau. Each registration continues in force for one year from the date of registration. Prospective graduates from the college may register without payment of the registration fee, if such registration is made within the first six weeks of the term of prospective graduation. Prospective August graduates may register without charge within the first six weeks of the spring term.



## GENERAL REGULATIONS

### ENTRANCE REQUIREMENTS

Graduates of four-year public high schools in the state and graduates of the four-year private academies or high schools approved by the Board on Secondary School Relations are admitted to college courses.

Graduates of four-year high schools in another state, if such schools are accredited by the state university of the state, are admitted to college courses.

Any person twenty-one years of age or over who has not completed 14 units of high-school work that may be accepted for admission to a curriculum may be admitted to college courses as a special student. Credit earned by a special student may be used in meeting the requirements for graduation only when it has been approved for this purpose by special action of the faculty and when all requirements for admission to a curriculum have been met.

Graduates of unapproved secondary schools in Iowa or in other states, if not admitted as special students, are admitted only on examination.

Fifteen units\* of standard secondary school work are required for unconditional admission to a curriculum.

A student who is admitted to a curriculum with an entrance deficiency in algebra or geometry must register at once for work which will remove the deficiency. For each half unit of deficiency in English or social science or elective work, 4.5 hours of credit in English or social science or elective work respectively must be earned before graduation in addition to the regular requirements for graduation.

Certificates of high-school credit should be sent to the Registrar several weeks before the time of enrollment.

Further information concerning methods of admission to college courses will be furnished by the Registrar upon request.

The total number of units required and the total number of units accepted for admission to curricula are as follows:

1. English .....	3 units required	4 units accepted
2. Foreign Language .....		8 units accepted
3. Social Science .....	1½ units required	4 units accepted
4. Mathematics .....		4 units accepted
Algebra .....	1 unit required	
Geometry .....	1 unit required	
5. Natural and Physical Science		4½ units accepted
From above five groups.....	11 units required	15 units accepted
6. Miscellaneous group .....		4 units accepted

The units required and the additional units accepted for admission to curricula are in detail as follows:

1. English—3 units required, 1 additional unit accepted.

The work in English should include composition, rhetoric, and literature. It may include journalism, public speaking, and business

\*A unit is the equivalent of a high-school course requiring five recitation periods of at least forty minutes each a week for a school year of not less than thirty-six weeks and constituting approximately one-fourth of the full regular work of a student.



English. One-half unit of grammar may be accepted, if taken in the eleventh or twelfth grade.

2. Foreign Language—1 unit to 8 units accepted.

The foreign language may be selected from Greek, Latin, French, Spanish, German, and other foreign languages.

The amount of work accepted is not less than 1 unit nor more than 4 units in any one foreign language.

3. Social Science—1½ units required, 2½ additional units accepted.

Work is accepted in detail as follows: ancient history, ½ to 1 unit; medieval and modern history, ½ to 1 unit; general history, but not in addition to ancient, medieval, or modern history, ½ to 1 unit; English history, ½ to 1 unit; United States history, if taken in the eleventh or twelfth grade, ½ to 1 unit; civics, citizenship, community civics, ½ to 1 unit; economics, ½ unit; sociology, ½ unit.

4. Mathematics—2 units required, 2 additional units accepted.

Work is accepted in detail as follows: elementary algebra through quadratics, 1 unit required; plane geometry, 1 unit required; third-semester algebra, ½ unit; fourth-semester algebra in the twelfth grade, ½ unit; solid geometry, ½ unit; trigonometry, ½ unit.

5. Natural and Physical Science—½ to 4½ units accepted.

Work is accepted in detail as follows: agriculture, ½ to 2 units; astronomy, ½ unit; botany, ½ to 1 unit; chemistry, 1 unit; general science, ½ to 1 unit; geology, ½ unit; physiography, ½ to 1 unit; physics, 1 unit; physiology, ½ unit; zoölogy, ½ to 1 unit.

6. Miscellaneous Group—4 units accepted.

The 4 units may be selected from any subjects, if the work was done in accordance with the regulations of the Board on Secondary School Relations.

Not more than 5 units of work completed in any year of a secondary school are accepted for admission to college courses.

### ADMISSION WITH ADVANCED STANDING

College credit earned in other approved institutions is accepted and used in meeting the requirements for graduation as far as the credit conforms to qualitative standards and corresponds to the work of the curriculum. Such credit is granted at the rate of one year of credit for one year of regular work. Transcripts of college credit should be sent to the Registrar several weeks before the time of enrollment.

### ADVISERS AND AMOUNT OF WORK

The registration of every student is subject to the approval of an adviser or an advisory committee.

The regular work of a student consists of three five-hour courses or equivalent, with one extra hour if desired, and in addition until the requirements are satisfied Physical Education I.

The minimum amount of academic work required of regular students is two five-hour courses or equivalent.

A student may take a drill course (penmanship, music, or handwork) or Illustrative Teaching in addition to regular work but not in addition to extra work.

Students in general may not register for more than regular work and a drill course or Illustrative Teaching during the first two terms in residence.

After the first two terms in residence a student who has maintained a high rank in scholarship may be permitted by his adviser to register

for more than 16 hours of credit work a week; but in no case is a student permitted to register for more than 20 hours of credit work, or 18 hours and a drill course, the amount of work being counted as if each course were taken for full credit.

A student who has received a degree from a standard college may be permitted by his adviser to register for a maximum of 20 hours of credit work a week or 18 hours and a drill course.

### ABSENCES AND THE MAKING UP OF WORK

Work lost by late enrollment may not be made up for credit except with the consent of the Dean of Men or the Dean of Women.

Work lost by change of registration after the first three days of recitation of any term may not be made up for credit without the consent of the Committee on Registration unless the change was due to a notification of irregularity.

Work lost by absence may not be made up for credit unless the absence is excused, except that one or two unexcused absences in Physical Education I may be made up under the same conditions as excused absences.

Lost work amounting to more than one-sixth of a course or to more than one-sixth of a term's work in Physical Education I may not be made up for credit.

Work reported as unfinished may not be completed after the expiration of six months from the end of the term for which the report was made.

One-tenth of a term hour is deducted by the instructor from the term's credit for every period of class work lost and not made up, whether the loss was due to excused or unexcused absence or to late entrance upon the course. Two periods of laboratory work are counted as one period of class work.

### MARKS AND GRADE POINTS

The marks A, B, C, D, F (failed), and U (unfinished) are used in indicating quality of work.

Grade points are awarded as follows: for each hour of credit work marked A, 4 grade points; B, 3 grade points; C, 2 grade points; D, 1 grade point; F, 0 grade points.

Students may be suspended temporarily or indefinitely for low scholarship.

### GENERAL REQUIREMENTS FOR GRADUATION

**Residence and Residence Credit.**—To meet the requirements for graduation a student must be in attendance at this institution at least thirty-six weeks, earning in such residence at least 45 hours of college credit. The last 15 hours of credit required for graduation must be earned in residence at Cedar Falls or in an affiliated school.

Three-fourths of the credit required for the completion of any curriculum must be earned by residence work.

**Physical Education.**—A student is required to take work in Physical Education I each fall, winter, and spring term of attendance at Cedar Falls unless he is released from a part or all of this requirement by the Health Director or is teaching in a rural demonstration school or in an affiliated school, except that no student other than a student on a physical education curriculum is required to complete more than six terms of Physical Education I.



Not less than two terms of Physical Education I are required for graduation from the one-year curriculum for teachers in rural schools and not less than three terms for graduation from any other curriculum.

Three terms of Physical Education I must consist of work requiring three periods a week.

Three terms or less of band practice two or more days a week may be substituted for an equal number of terms of Physical Education I, if the student registers for band practice instead of for Physical Education I.

A temporary excuse from Physical Education I for a term or a part of a term by the Health Director does not release the student from any part of the total requirement in Physical Education I.

**Listing of Candidates for Graduation.**—A student may be listed as a candidate for graduation, if completion of the work for which he is registered would meet all the requirements for graduation exclusive of grade points and if the number of grade points to be earned does not exceed 1.75 times the number of hours to be earned. A student who has more than 1.75 times as many grade points yet to earn as hours of credit yet to earn may not be listed for graduation, except that students needing 28 or less grade points may be listed for graduation. A student who is registered for all work required for graduation but cannot be listed for graduation at the end of the term because he does not meet the above requirements may receive a diploma dated on the first Monday following the close of the term if he has completed the work and has earned the number of grade points required for graduation.

**Recommendation for Graduation.**—To be recommended for graduation a student must earn 1.75 times as many grade points as hours of credit earned in residence and by extension work at this institution and used in meeting the requirements for graduation.

If a student has failed to be recommended for graduation because of lack of grade points, additional grade points are granted only upon completion of additional work in residence.

After a student has completed at this institution as many hours of work as he is required to complete for graduation, only grade points for work marked A, B, or C may be used in meeting the requirements for graduation.

**Note.**—A student who expects to be graduated at the end of a term should make written application for graduation at the opening of the term.



## TEACHERS CERTIFICATES

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### County Certificates

**Normal Training.**—The college makes provision for the twelve weeks of normal training required by law for a county certificate by examination. To be admitted for normal training a student must be a graduate of a four-year approved high school. To obtain a statement certifying to twelve weeks of normal training a student must earn twelve weeks (5 term hours) of credit in Rural School Management and twelve weeks of credit in each of two other five-hour college subjects.

**Examinations for County Certificates.**—The examinations for county certificates are held at the college at stated times in January, June, August, and October. Information concerning these examinations may be obtained from the Executive Secretary.

**Substitutions for Examinations.**—Information concerning the substitution of credit in certain courses for examinations required for county certificates may be obtained from the Executive Secretary.

A student who has credit for American Government and who has completed two years of college work including 15 term hours of work in elementary education or in elementary education and educational psychology as prescribed by the Board of Educational Examiners may receive a first grade uniform county certificate.

### State Certificates

Graduates of the Iowa State Teachers College when eighteen years of age may receive state certificates without examination as indicated below:

For the completion of a two-year curriculum, a standard elementary certificate;

For the completion of a four-year curriculum with a major in nursery school and kindergarten education, primary education, or elementary education, or for the completion of the curriculum leading to the degree of Bachelor of Science in Opportunity Room Education, an advanced elementary certificate;

For the completion of a four-year curriculum with a major other than those mentioned above and leading to the degree of Bachelor of Arts or of Bachelor of Science, or for the completion of a four-year curriculum organized for a special subject, except opportunity room education, a standard secondary certificate.

The requirements for the issuance of the elementary principal's certificate, the secondary principal's certificate, and the supervisor's certificate may also be satisfied by work taken in this institution. Detailed information with regard to these requirements may be obtained from the office of the Executive Secretary.

Until July 1, 1935, in addition to the state certificates mentioned above, the first grade state certificate, the second grade state certificate, the third grade state certificate, and the rural teacher's state certificate will be issued to applicants who have satisfied the requirements in each case and have earned at least three term hours of credit in the principles of American government or have passed a state examination in this work.

## CURRICULA

The various curricula of the Iowa State Teachers College provide preparation for the work of different types of teachers and administrators as follows:

**One-Year Curriculum:** teachers in rural schools

**Two-Year Curricula:** teachers in nursery school and kindergarten, teachers in primary grades, teachers in grades above the primary, teachers in consolidated schools

**Four-Year Curricula:** critic teachers; teachers of English, foreign language, mathematics, science, and social science; teachers of art, manual arts, home economics, commercial education, physical education, music, and orchestral and band music; superintendents; supervisors of nursery school and kindergarten, and of primary, intermediate, and upper-grade work.

### TWO-YEAR CURRICULA

#### General Regulations

A minimum of 90 hours of college work is required for the completion of a two-year curriculum.

Unless otherwise specified in the outline or in the notes following the outline of each curriculum, a student on a two-year curriculum may not elect courses in the Department of Education and may not use in meeting the requirements for graduation less than 5 hours of physical education for men from Courses VI-XIX, or more than 5 hours of religious education or more than 15 hours of work in any major line.\* Ten hours is the maximum amount of credit in teaching that may be used in meeting the requirements for graduation, except that a student who cannot register for work on the campus during his term of teaching because of a teaching assignment outside of Cedar Falls may register for 15 hours of teaching during the term and may use this credit in meeting the requirements for graduation.

To receive the standard elementary certificate a student who has been released from English I must have credit for 5 additional hours of English.

For a full statement of the requirements in Physical Education I, see General Requirements for Graduation (page 34). For the requirements for a state teacher's certificate, see page 36.

#### Curriculum for Teachers in Nursery School and Kindergarten

##### First Year

	Hours		Hours
Introduction to Education.....	5	Art for Nursery School, Kin-	
Child Psychology .....	5	dergarten, and Primary	
Activities of Young Children..	2.5	Grades .....	2.5
Industrial Arts for Nursery		Primary Methods in Reading	
School and Kindergarten.....	2.5	and Mathematics.....	5

\*For a list of the majors, see Four-Year Curricula—Introductory Statement (page 41).



Directed Observation of Nursery School, Kindergarten, and Primary Work.....	2	Nutrition of Children.....	3
Drawing I.....	2.5	Nature Study, General Science A.....	5
		English I.....	5
		Description and Narration.....	5

Physical Education I each fall, winter, and spring term

#### Second Year

	Hours		Hours
Methods in Nursery School and Kindergarten Work.....	5	Nursery School and Kindergarten Teaching .....	10
Physical Growth and Health Care .....	3	American Government .....	5
Elements of Music.....	2.5	General Sociology .....	5
Music for Nursery School, Kindergarten, and Primary Grades .....	2.5	English, Language and Literature .....	5
		Electives .....	7

Physical Education I each fall, winter, and spring term

#### Notes

1. Credit for Rural School Management earned by a student while registered for twelve weeks of normal training may be used in meeting the requirements for graduation from this curriculum.

2. The work in Physical Education I must include Rhythmic Education for Young Children and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

3. For further details, see General Requirements for Graduation (page 34) and Two-Year Curricula—General Regulations, (page 37).

### Curriculum for Teachers in Primary Grades

#### First Year

	Hours		Hours
Introduction to Education.....	5	Music for Nursery School, Kindergarten, and Primary Grades .....	2.5
Child Psychology .....	5	Industrial Arts for Primary Grades .....	2.5
Primary Methods in Reading and Mathematics .....	5	Activities of Young Children.....	2.5
Primary Methods in Language and Literature .....	5	English I .....	5
Drawing I.....	2.5	Description and Narration.....	5
Elements of Music.....	2.5		
Art for Nursery School, Kindergarten, and Primary Grades .....	2.5		

Physical Education I each fall, winter, and spring term

#### Second Year

	Hours		Hours
Directed Observation of Primary Work .....	2	American Government .....	5
Nutrition of Children.....	3	American History since 1865 or General Sociology.....	5
Primary Teaching .....	10	English, Language and Literature .....	5
Nature Study, General Science A .....	5	Electives .....	7
Health Education .....	3		

Physical Education I each fall, winter, and spring term



## Notes

1. Credit for Rural School Management earned by a student while registered for twelve weeks of normal training may be used in meeting the requirements for graduation from this curriculum.
2. The work in Physical Education I must include Physical Education for Primary Grades and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.
3. For further details, see General Requirements for Graduation (page 34) and Two-Year Curricula—General Regulations (page 37).

## Curriculum for Teachers in Grades above the Primary

## First Year

	Hours		Hours
Introduction to Education.....	5	Health Education .....	3
Educational Psychology I.....	5	Elements of Music.....	2.5
Elementary School Management or Rural School Management .....	5	Principles of Elementary Mathematics I .....	5
Elementary School Methods....	5	English I .....	5
Drawing I .....	2.5	Description and Narration.....	5
Industrial Arts for Intermediate Grades .....	2.5	Illustrative Teaching Penmanship	

Physical Education I each fall, winter, and spring term

## Second Year

	Hours		Hours
Teaching .....	10	American History to 1865 or American History since 1865 .....	5
Nature Study, General Science A or Everyday Physical Science, General Science B	5	English, Language and Literature .....	5
Elements of Geography I.....	5	Elective in Science.....	4
Music for Intermediate Grades .....	2	Electives .....	3.5
American Government .....	5		

Physical Education I each fall, winter, and spring term

## Notes

1. A student who shows suitable proficiency in penmanship may be released from the requirement in penmanship by the head of the Department of Mathematics and Commercial Education.
2. A student who has been graduated from the one-year curriculum for rural teachers may substitute Rural School Methods for Elementary School Methods.
3. Elementary School Methods or Rural School Methods is a prerequisite of the teaching required on this curriculum.
4. Women students must include in the work in Physical Education I Physical Education for Intermediate Grades and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.
5. A student who has had two or more years of experience in teaching and who does not use in meeting the requirements for graduation more than 10 hours of credit in teaching may elect The Teaching of Reading and Spelling with the consent of his adviser and the head of the Department of Education.

6. Students who wish to prepare for departmental work should complete more work than is required on a two-year curriculum and should make suitable preparation in the field or fields of specialization. Those who wish to prepare for teaching positions in junior high schools should have four years of college preparation.

7. For further details, see General Requirements for Graduation (page 34) and Two-Year Curricula—General Regulations (page 37).

### Curriculum for Teachers in Rural and Consolidated Schools

#### First Year—For Teachers in Rural Schools

	Hours		Hours
Rural School Management.....	5	English I .....	5
Rural School Methods.....	5	Nature Study, General Science	
Rural Observation and Teaching .....	2.5	A or Everyday Physical	
Elements of Music.....	2.5	Science, General Science B..	5
Drawing I.....	2.5	Elements of Geography I.....	5
The School Lunch.....	2.5	American Government .....	5
Principles of Elementary		Penmanship	
Mathematics I .....	5		

Physical Education I each fall, winter, and spring term

#### Second Year—For Teachers in Consolidated Schools

	Hours		Hours
Introduction to Education.....	5	Description and Narration.....	5
Educational Psychology I.....	5	American History to 1865;	
The Consolidated School.....	5	American History since	
Teaching .....	10	1865; European History,	
Health Education .....	3	400-1650; or European His-	
Industrial Arts for Intermedi-		tory since 1815.....	5
ate Grades .....	2.5	English, Language and Liter-	
Illustrative Teaching		ature .....	5

Physical Education I each fall, winter, and spring term

#### Notes

1. A student who completes the first year of work on this curriculum may receive a rural teacher's diploma and when eighteen years of age a rural teacher's state certificate.

2. A student who does not wish to receive the rural teacher's diploma should take electives in place of The School Lunch and Rural Observation and Teaching.

3. To receive a standard elementary certificate a student must earn 4 hours of additional credit in science and 2 hours of additional credit in music.

4. Elementary School Methods taken by a student while registered for twelve weeks of normal training may be substituted for Rural School Methods.

5. A student who shows suitable proficiency in penmanship may be released from the requirement in penmanship by the head of the Department of Mathematics and Commercial Education.

6. Women students on the one-year curriculum for rural teachers must include in the work in Physical Education I Physical Education for Rural Schools and at least one course selected from Team Sports, Individual Sports, and Rhythmic Activities.

7. Women students on the curriculum for teachers in consolidated



schools must include in the work in Physical Education I Physical Education for Rural Schools or Physical Education for Intermediate Grades and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

8. A student on the one-year curriculum for rural teachers is excused from Physical Education I during the term in which he is registered for Rural Observation and Teaching. See Physical Education (page 34).

9. For further details, see General Requirements for Graduation (page 34) and Two-Year Curricula—General Regulations (page 37).

## FOUR-YEAR CURRICULA

### Introductory Statement

The four-year curricula are designated as degree curricula.

The degree curriculum organized to include majors offered by different departments leads to the degree of Bachelor of Arts or Bachelor of Science.

Special degree curricula lead to the degree of Bachelor of Science in special subjects.

A major consists of not less than 40 hours nor more than 60 hours of work in a major line.\* A major may include a maximum of 10 hours of work in related courses approved by the faculty for this purpose.

The different departments offer majors as follows:

**Art and Manual Arts:** art, manual arts

**Education:** nursery school and kindergarten education, primary education, elementary education

**English:** English, speech

**Home Economics:** home economics

**Latin, Greek, and German:** Latin, German

**Mathematics and Commercial Education:** mathematics, commercial education

**Music:** music

**Natural Science:** biological science, earth science, agriculture

**Orchestral Music:** orchestral and band music

**Physical Education for Men:** physical education for men

**Physical Education for Women:** physical education for women

**Physics and Chemistry:** physics, chemistry

**Romance Languages:** French, Spanish

**Social Science:** history, government, economics and sociology

**Teaching:** teaching and critic training

\*A major line is the series of courses from which the work of a major is chosen.



The work of a minor may be selected from courses in psychology and from any major line except nursery school and kindergarten education, primary education, elementary education, orchestral and band music, and teaching and critic training. A minor consists of at least 25 hours of work in a modern foreign language if the language is begun in college. A minor in all other cases consists of at least 20 hours of work. Not more than 30 hours of work may be included in a minor in art, music, speech, agriculture, commercial education, home economics, manual arts, or physical education.

A student on the curriculum leading to the degree of Bachelor of Arts or Bachelor of Science must choose a major and two minors before registering for courses which will include work of the sophomore year. The choice of the major and of the minors is subject to the approval of the head of the department in which the major is chosen.

The head of the department in which the major is chosen is the adviser of the student.

With the consent of the adviser more than two minors may be chosen.

The requirements for a degree include in addition to the general requirements for graduation at least 45 hours of credit earned in the junior and senior years in courses of this institution, at least 30 hours of credit earned in the junior and senior years in residence at this institution, at least 90 hours of credit earned in courses not open to freshmen, and at least 60 hours of credit earned in courses open only to juniors and seniors.

Twenty hours of the work of a major must be in courses not open to freshmen and 10 hours must be in courses open only to juniors and seniors.

Completion of a two-year curriculum entitles the student to at least 90 hours of credit on a degree curriculum if the student's major corresponds to the work of the completed curriculum.

A student who has completed a two-year curriculum and has earned only 10 hours of credit in teaching must earn 5 hours of additional credit in teaching in the senior year unless released from this requirement by the head of the Department of Teaching.

Not more than 15 hours of religious education or more than 15 hours of teaching including Rural Observation and Teaching may be used in meeting the requirements for a degree.

Not more than 30 hours of work in agriculture, art, commercial education, home economics, manual arts, physical education, or speech, or more than 20 hours in music or orchestral music, or more than 10 hours in applied music with a combined maximum of 20 hours in music, orchestral music, and applied music may be used in meeting the requirements for a degree, unless the work in question is used in meeting the requirements of a major or a minor or of a special degree curriculum.

Not more than 10 hours nor less than 8 hours of physical education for men from Courses VI-XIX may be used in meeting the requirements for a degree, unless the work in question is used in meeting the requirements of a major or a minor in physical education for men or in meeting the requirements for the degree of Bachelor of Science in Physical Education, except that 15 hours of work in these courses may be used in meeting the requirements for the degree of Bachelor of Arts if the student's major is agriculture or commercial education or manual arts, or in meeting the requirements for the degree of Bachelor of Science in Agriculture or Commercial Education or Manual Arts.

The requirements for a standard secondary certificate include credit

for at least  $22\frac{1}{2}$  hours of work in one major line and at least 15 hours in each of two other major lines.

To receive a second baccalaureate degree a student must meet all the requirements for that degree including at least 36 weeks of residence after receiving the first baccalaureate degree and not less than 45 hours of credit in addition to the credit required for the first baccalaureate degree.

### DEGREE CURRICULUM ORGANIZED FOR MAJOR SUBJECTS

The degree curriculum organized to include majors offered by different departments leads to the degree of Bachelor of Arts, except that upon request the degree of Bachelor of Science may be granted instead of the degree of Bachelor of Arts to a student who has met the requirements for the degree of Bachelor of Arts and has completed a major in mathematics, biological science, earth science, physics, or chemistry.

#### Requirements for the Degree of Bachelor of Arts

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; elective in education—3 hours; Illustrative Teaching—12 weeks; Teaching—10 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted, —5 hours; 5 hours of work from other courses in composition or from Theory of Debating, Debating, and Advanced Public Speaking; 5 hours of work from language and literature. Total 10 to 15 hours.

**Foreign Language:** If a student presents entrance credit for 3 or more units of one foreign language or of two foreign languages, no foreign language; for 2 to  $2\frac{1}{2}$  units in one foreign language, 5 hours of work in the same language or 15 hours of work in a new foreign language; for 1 unit to  $1\frac{1}{2}$  units in one foreign language, 10 hours of work in the same language or 15 hours of work in a new foreign language; for no foreign language, 20 hours of work in foreign language. Total 0 to 20 hours.

Work in foreign language, if required on a student's curriculum, must be taken in the freshman year unless with the consent of the adviser it is postponed until the sophomore year.

**Mathematics, Biological Science, Earth Science, Physics, Chemistry:** If a student presents entrance credit for  $4\frac{1}{2}$  or more units in this group of subjects, 15 hours in the group; for less than  $4\frac{1}{2}$  units, 20 hours. Total 15 to 20 hours.

If a student takes work in science to satisfy any or all of these requirements, he must take not less than 5 hours of work from courses designated as laboratory science.

**Social Science:** American Government—5 hours; 5 additional hours of social science, if a student presents entrance credit for 3 or more units of social science; 10 additional hours, if a student presents less than 3 units of social science. Total 10 to 15 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include a major, two minors, and 120 hours of work in education, psychology, teaching, English, foreign



language, mathematics, biological science, earth science, physics, chemistry, and social science. The adviser may release the student from one of the two minors if the student enters the college with 90 or more hours of college credit.

Women students must include in the work of Physical Education I Fundamentals of Exercise and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities, except that Rhythmic Education for Young Children is required instead of Fundamentals of Exercise if the student's major is music or orchestral and band music.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### DEGREE CURRICULA ORGANIZED FOR SPECIAL SUBJECTS

Special degree curricula lead to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Commercial Education, Bachelor of Science in Home Economics, Bachelor of Science in Manual Arts, Bachelor of Science in Music, Bachelor of Science in Opportunity Room Education, Bachelor of Science in Orchestral and Band Music, and Bachelor of Science in Physical Education.

#### Requirements for the Degree of Bachelor of Science in Agriculture

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I—5 hours; Educational Psychology II or Psychology of Adolescence—5 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; Illustrative Teaching—12 weeks; Teaching—10 hours; elective in education—3 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted, —5 hours; Advanced Exposition—5 hours; elective—5 hours. Total 10 to 15 hours.

**Earth Science:** Principles of Physiography—5 hours; Climatology—5 hours. Total 10 hours.

**Social Science:** American Government—5 hours; Principles of Economics I—5 hours. Total 10 hours.

**Agriculture:** Dairy Cattle—3 hours; Beef Cattle and Sheep—3 hours; Swine—2 hours; Farm Poultry—2 hours; Farm Management—3 hours; Marketing Agricultural Products—3 hours; electives in agriculture—14 hours. Total 30 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include two minors.

Women students must include in the work in Physical Education I Fundamentals of Exercise and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).



### Requirements for the Degree of Bachelor of Science in Commercial Education

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; elective in education—3 hours; Illustrative Teaching—12 weeks; Teaching—10 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted, —5 hours; additional composition—5 hours; language and literature—5 hours. Total 10 to 15 hours.

**Mathematics, Biological Science, Earth Science, Physics, Chemistry:** Commercial and Industrial Geography—5 hours; if a student presents entrance credit for  $4\frac{1}{2}$  or more units in this group of subjects, 15 hours in the group; for less than  $4\frac{1}{2}$  units, 20 hours. If a student takes work in science to satisfy any or all of these requirements, he must take not less than 5 hours of work from courses designated as laboratory science. Total 15 to 20 hours.

**Social Science:** American Government—5 hours; 5 additional hours of social science, if a student presents entrance credit for 3 or more units of social science; 10 additional hours, if a student presents less than 3 units of social science. Total 10 to 15 hours.

**Commercial Education:** Penmanship—one term; Typewriting I and II or II and III—2 hours; and at least 38 hours of elective work in commercial education. Twenty hours of the work in commercial education must be from courses not open to freshmen and 10 hours from courses open only to juniors and seniors.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include two minors and 105 hours of work in education, psychology, teaching, English, mathematics, biological science, earth science, physics, chemistry, and social science.

Women students must include in the work in Physical Education I Fundamentals of Exercise and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### Requirements for the Degree of Bachelor of Science in Home Economics

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I—5 hours; Statistical Methods in Education—2 hours; Methods and Measurement in the High School—5 hours; Illustrative Teaching—12 weeks; Teaching—10 hours; elective in psychology—5 hours. Total 32 hours.

**English:** English I, if release from this course has not been granted, —5 hours; Description and Narration—5 hours; language and literature—5 hours. Total 10 to 15 hours.

**Biological Science, Chemistry:** Animal Biology—5 hours; Physiology—5 hours; \*Inorganic Chemistry I and II or Inorganic Chemistry

\*A student who presents entrance credit for 1 unit of chemistry must take Chemistry of Nonmetals instead of Inorganic Chemistry I and II or Inorganic Chemistry A and B.

A and B—10 hours; Organic Chemistry—5 hours; Chemistry of Foods and Nutrition—3 hours. Total 23 to 28 hours.

**Social Science:** American Government—5 hours. Total 5 hours.

**Art:** General Design—2½ hours; Applied Arts I—2½ hours. Total 5 hours.

**Home Economics:** \*Clothing I and II—8 hours; Textiles—3 hours; Costume Design—3 hours; Foods I and II—8 hours; Advanced Nutrition—4 hours; House Furnishing and Decoration—3 hours; Home Management—5 hours; Child Care—3 hours; Meal Planning and Serving—3 hours; Problems of Consumers—5 hours; and Methods in Home Economics—3 hours. Total 44 to 48 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include two minors.

The work in Physical Education I must include Fundamentals of Exercise and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### Requirements for the Degree of

#### Bachelor of Science in Manual Arts

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; Illustrative Teaching—12 weeks; Teaching—10 hours; elective in education—3 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted, —5 hours; Description and Narration—5 hours; language and literature—5 hours. Total 10 to 15 hours.

**Mathematics, Biological Science, Earth Science, Physics, Chemistry:** Mechanics—5 hours; Heat, Electricity, and Magnetism—5 hours; elective from this group of subjects—5 hours. Total 15 hours.

**Social Science:** American Government—5 hours; elective—5 hours. Total 10 hours.

**Art:** Drawing I or Perspective—2½ hours.

**Manual Arts:** Mechanical Drawing I, II, III—8 hours; Architectural Drawing—3 hours; Industrial Arts Design—2½ hours; Woodwork I-IV—12 hours; Wood Finishing—2 hours; Metal Work I—2½ hours; The Planning and Equipment of the School Shop—2 hours; Organization and Administration of Manual Arts—5 hours; The Teaching of Manual Arts—3 hours. Total 40 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include one minor.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

\*A student who presents entrance credit in home economics may be released by the head of the Department of Home Economics from Clothing I.



### Requirements for the Degree of Bachelor of Science in Music

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; Illustrative Teaching—12 weeks; Teaching—10 hours; elective in education—3 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted,—5 hours; additional composition—5 hours; language and literature—5 hours. Total 10 to 15 hours.

**Foreign Language:** Total 15 hours.

**Social Science:** American Government—5 hours.

**Music, Orchestral Music:** Music I and II—6 hours; Sight Singing—3 hours; Ear Training and Dictation—3 hours; Music Methods I and II—5 hours; Choral Conducting—2 hours; High School Music—5 hours; Harmony I-IV—12 hours; Music Form and Analysis—3 hours; History of Music I and II—5 hours; Music Appreciation—3 hours; Music Supervision—2 hours; Orchestra Conducting—3 hours; Supervisors Violin A, B, C; Voice—6 hours; \*Piano—6 hours; electives in Applied Music—6 hours; electives in the departments of Music and Orchestral Music—8 hours. Total 78 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include one minor and 90 or more hours of work in education, psychology, teaching, English, foreign language, mathematics, biological science, earth science, physics, chemistry, social science, and speech.

Women students must include in the work in Physical Education I Rhythmic Education for Young Children and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### Requirements for the Degree of Bachelor of Science in Opportunity Room Education

To meet the requirements for the degree of Bachelor of Science in Opportunity Room Education, a student must complete the two-year curriculum for teachers in primary grades or the two-year curriculum for teachers in grades above the primary and in addition the following work:

**Education, Psychology, Teaching:** Personality Development of Children—3 hours; Mental Hygiene—2 hours; The Teaching of Reading and Spelling—5 hours; The Education of Exceptional Children—5 hours; Mental Tests—2 hours; The Elementary School Curriculum—3 hours; additional teaching to make a total of 15 hours of teaching. Total 20 to 25 hours.

**Speech:** Speech Correction—5 hours.

**Biological Science, Physics:** Heredity—3 hours; Household Physics—3 hours. Total 6 hours.

\*With the consent of the head of the Department of Music, credit in Organ may be substituted for all or a part of this requirement.



**Social Science:** General Sociology—5 hours; Crime and Poverty—5 hours; Social Problems—2 hours. Total 12 hours.

**Manual Arts:** Woodwork I and II—5 hours.

**Physical Education:** Play and Playground—3 hours; First Aid to the Injured—2 hours; Club Craft and Leadership—2 hours; Physical Growth and Health Care—3 hours. Total 10 hours.

**Electives:** Electives to make a total of 180 hours.

The work in Physical Education I must include Fundamentals of Exercise and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### Requirements for the Degree of Bachelor of Science in Orchestral and Band Music

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; Illustrative Teaching—12 weeks; Teaching—10 hours; elective in education—3 hours. Total 35 hours.

**English:** English I, if release from this course has not been granted, —5 hours; additional composition—5 hours; language and literature—5 hours. Total 10 to 15 hours.

**Foreign Language:** If a student presents entrance credit for 4 or more units of foreign language, no foreign language; for less than 4 units, 15 hours. Total 0 to 15 hours.

**Physics:** Sound and Music—5 hours.

**Government:** American Government—5 hours.

**Orchestral Music, Music:** Instrumental Dictation—3 hours; Orchestral Instruments I-VI—6 hours; Orchestra Conducting—3 hours; Band Directing—2 hours; Orchestration I and II—6 hours; Band Instrumentation—2 hours; Canon and Fugue I, II, III—3 hours; Composition I, II, III—3 hours; Ensemble I, II, III—3 hours; Senior Recital—1 hour; Supervisors Violin A, B, C; Music I—3 hours; Harmony I-IV—12 hours; Counterpoint I, II, III—6 hours; History of Music I and II—5 hours; Applied Music (\*major instrument)—21 hours, \*\*Piano—3 hours. Total 82 hours.

**Electives:** Electives to make a total of 180 hours.

Not more than 8 hours of the electives may be selected from orchestral music and music.

The work of a student must include one minor.

\*With the consent of the head of the Department of Orchestral Music a student on the curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music may substitute four years of credit in piano or organ or both for the required work in Applied Music III, IV, or V. During the second, third, and fourth years of work in piano or organ such students may take two lessons a week for 2 hours of credit and the maximum amount of credit shall be 21 hours.

\*\*With the consent of the head of the Department of Orchestral Music, 3 hours of Organ or other courses in the departments of Music and Orchestral Music may be substituted for Piano.

Women students must include in the work in Physical Education I Rhythmic Education for Young Children and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

### Requirements for the Degree of Bachelor of Science in Physical Education

#### Requirements for Men

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I and II—10 hours; Statistical Methods in Education—2 hours; Methods and Measurements in the High School—5 hours; elective in education—3 hours; Illustrative Teaching—12 weeks; Teaching—10 hours, which should include 5 hours of teaching other than the teaching of physical education. Total 35 hours.

**English, Speech:** English I, if release from this course has not been granted,—5 hours; Description and Narration—5 hours; Public Speaking—5 hours. Total 10 to 15 hours.

**Biological Science:** Animal Biology—5 hours; Physiology—5 hours; Hygiene and Sanitation—5 hours. Total 15 hours.

**Social Science:** American Government—5 hours; 5 additional hours of social science, if a student presents entrance credit for 3 or more units of social science; 10 additional hours, if a student presents less than 3 units of social science. Total 10 to 15 hours.

**Physical Education:** History and Principles of Physical Education—3 hours; Anatomy—5 hours; Athletic Training and Conditioning—2 hours; Football—5 or 6 hours; Basketball—5 or 6 hours; Baseball—2 or 3 hours; Track and Field—2 or 3 hours; Gymnastics—2 hours; Swimming—2 hours; Activities for Schools—2 hours; Organization and Administration of Physical Education—3 hours; Methods in Physical Education—5 hours. Total 38 to 42 hours.

**Electives:** Electives to make a total of 180 hours.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

#### Requirements for Women

**Education, Psychology, Teaching:** Introduction to Education—5 hours; Educational Psychology I—5 hours; elective in psychology—5 hours; Statistical Methods in Education—2 hours; electives in education—8 hours; Illustrative Teaching—12 weeks; Teaching—10 hours. Total 35 hours.

**English, Speech:** English I, if release from this course has not been granted,—5 hours; additional composition—5 hours; language and literature—10 hours; Speech—5 hours. Total 20 to 25 hours.

**Biological Science, Physics, Chemistry:** Animal Biology—5 hours; Physiology—5 hours; Mechanics, Light, and Electricity—5 hours; Elementary Inorganic and Organic Chemistry—5 hours; Physiological Chemistry—5 hours. Total 25 hours.



**Social Science:** American Government—5 hours; elective in social science—5 hours. Total 10 hours.

**Home Economics:** Elementary Nutrition—3 hours.

**Physical Education:** Principles of Physical Education—5 hours; Anatomy 5 hours; Physiology of Exercise—3 hours; Physical Diagnosis—3 hours; First Aid to the Injured—2 hours; Therapeutic Exercises and Massage—3 hours; School Health Problems—5 hours; Kinesiology—3 hours; Play as Education—5 hours; The Dance in Education—3 hours; Tests and Measurements in Physical Education—2 hours; Administration of Physical Education—5 hours; The Teaching of Basketball and Swimming—3 hours; The Teaching of Hockey, Soccer, and Tennis—2 hours; The Teaching of Baseball and of Track and Field—3 hours. Each student must pass a test in the playing of piano accompaniments for rhythmic work in physical education. Total 52 hours.

**Electives:** Electives to make a total of 180 hours.

The work of a student must include one minor.

Four courses in Physical Education I are required each term unless the student is released by the adviser from work in excess of the general requirement in Physical Education I.

For further details, see Four-Year Curricula—Introductory Statement (page 41) and General Requirements for Graduation (page 34).

## COURSES OF INSTRUCTION

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In the description of the courses of instruction all first-year students are designated as freshmen, students who have completed 45 hours and less than 90 as sophomores, 90 and less than 135 as juniors, and 135 or more as seniors.

### ART AND MANUAL ARTS

#### 1. Art

A major in art must include Drawing I, II, III, Perspective, General Design, Advanced Design, Water Color, Applied Arts I and II, Interior Decoration, Commercial Art, Pictorial Composition, History of Art, The Organization of Art, and The Teaching of Art.

The work of a student whose major is art must include Mechanical Drawing I.

I. Drawing I—2½ hours. No credit for a student who has credit for Still Life or Primary Drawing I or II. A basic course in drawing. The theory and use of color. Drawing of type and nature forms. Figure drawing. Daily. Open to freshmen, sophomores, and juniors.

II. \*Drawing II—2½ hours. A continuation of Drawing I with more emphasis upon technique. Mass drawing in light and shade. Figure drawing and illustration. Daily. Prerequisite: Drawing I or equivalent preparation. Open to freshmen, sophomores, and juniors.

III. Drawing III—2½ hours. Freehand drawing with emphasis upon fundamental principles of representation and upon accuracy of delineation. Reflections, shiny objects with backgrounds, costumed figures. Pen and ink drawing. Daily. Prerequisite: Drawing II or equivalent preparation. Open to sophomores, juniors, and seniors.

IV. Perspective—2½ hours. Type forms, single objects, groups of objects. Linear and aerial perspective. Daily. Open to freshmen and sophomores.

V. General Design—2½ hours. No credit for a student who has credit for Drawing and Design or for Applied Design. The principles of design as applied to construction and decoration. Color theory and harmony. Daily. Open to freshmen, sophomores, and juniors.

VI. Advanced Design—2½ hours. Daily. Prerequisite: General Design or equivalent preparation. Open to juniors and seniors.

VII. Water Color—2½ hours. A study of color as applied to still life and landscape. Technique of water color painting. Daily. Prerequisite: Drawing I and General Design or equivalent preparation.

VIII. Figure Drawing and Painting—2½ hours. Special problems in figure drawing and painting. The use of various media, including

\*A student who has credit for Primary Drawing or for Art for Nursery School, Kindergarten, and Primary Grades may not have credit for Drawing II. A student who has credit for Drawing II or Primary Drawing may not have credit for Art for Nursery School, Kindergarten, and Primary Grades.



oils. Prerequisite: Drawing I and II. Open to juniors and seniors. Open to freshmen and sophomores.

IX. **Applied Arts I**—2½ hours. Drawing and design applied to different spaces, materials, and objects. Daily. Prerequisite: General Design or equivalent preparation. Open to freshmen, sophomores, and juniors.

X. **Applied Arts II**—2½ hours. Similar to Applied Arts I with applications to other spaces, materials, and objects. Daily. Prerequisite: General Design or equivalent preparation. Open to sophomores, juniors, and seniors.

XI. **Elementary Handwork**—Drill credit. Daily.

XII. **\*Art for Nursery School, Kindergarten, and Primary Grades**—2½ hours. Credit only on the curricula for teachers in nursery school and kindergarten, for teachers in primary grades, for teachers in consolidated schools, and for a student whose major is nursery school and kindergarten education or primary education. Daily. Prerequisite: Drawing I. Open to freshmen and sophomores.

XIII. **Industrial Arts for Primary Grades**—2½ hours. Credit only on the curricula for teachers in primary grades and for teachers in consolidated schools, and for a student whose major is primary education. Fundamentals of design and color as applied to problems in construction work involving the use of clay, wood, cloth, and paper. The development of free expression in these media. Daily. Open to freshmen and sophomores.

XIV. **Industrial Arts for Intermediate Grades**—2½ hours. Credit only on the curricula for teachers in grades above the primary and for teachers in consolidated schools and for a student whose major is art or elementary education. The industrial arts involved in the construction of shelter, and in the production of utensils, machines, and records. Weaving, pottery making, and book making. Fundamentals of design and color as applied to construction and decoration. Daily. Prerequisite: Drawing I. Open to freshmen and sophomores.

XV. **Interior Decoration**—2½ hours. Design and color as applied to the home. Room interiors showing arrangement of pictures, windows, draperies, and furniture. Daily. Prerequisite: one term of drawing or equivalent preparation. Open to sophomores, juniors, and seniors.

XVI. **Commercial Art**—2½ hours. The principles of design and lettering applied in illustration and advertising. Daily. Prerequisite: one term of drawing. Open to sophomores, juniors, and seniors.

XVII. **Pictorial Composition**—2½ hours. Composition in illustration and pictorial drawing with emphasis upon the drawing of the human figure. Daily. Prerequisite: Drawing I and II or equivalent preparation. Open to juniors and seniors.

XVIII. **Art Appreciation**—5 hours. Examples of architecture, sculpture, painting, and handicraft. Open to sophomores, juniors, and seniors.

\*A student who has credit for Primary Drawing or for Art for Nursery School, Kindergarten, and Primary Grades may not have credit for Drawing II. A student who has credit for Drawing II or Primary Drawing may not have credit for Art for Nursery School, Kindergarten, and Primary Grades.

**XIX. History of Art**—5 hours. The architecture, painting, sculpture, and handicraft of different peoples. Open to juniors and seniors.

**XX. The Organization of Art**—2 hours. The place and purpose of art in the public schools. Organization of art work in the public schools. Standards of appreciation, skills, and knowledge. Materials and equipment. Prerequisite: Drawing I, II, and General Design. Open to juniors and seniors.

**XXI. The Teaching of Art**—3 hours. This course has been approved as a course in education (Education XXXIIIa) for a student whose major is art. Prerequisite: Drawing I and II, General Design, and Methods and Measurements in the High School. Open to juniors and seniors.

## 2. Manual Arts

A major in manual arts must include Mechanical Drawing I, II, III, Architectural Drawing, Industrial Arts Design, Woodwork I-IV, Wood Finishing, Metal Work I, The Planning and Equipment of the School Shop, Organization and Administration of Manual Arts, and The Teaching of Manual Arts.

The work of a student whose major is manual arts must include Drawing I or Perspective, and either Physics IV and VIII or Physics II and III.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Manual Arts, see page 46.

**I, II, III. Mechanical Drawing I**—2 hours. **II and III**—each 3 hours. Instruction in the use of drawing instruments, working drawings, blue printing, lettering, tracing, orthographic projections, isometric drawing, machine drawing. These courses must be taken in consecutive order. **I**—Laboratory work, 4 periods a week. **II and III**—Laboratory work, each 6 periods a week. Open to sophomores, juniors, and seniors.

**IV. Architectural Drawing**—3 hours. Laboratory work, 6 periods a week. Prerequisite: Mechanical Drawing I and II. Open to juniors and seniors.

**V. Industrial Arts Design**—2½ hours. No credit for a student who receive credit for Woodwork III before June 1, 1929. The general principles of constructive and decorative design as applied to wood and metal. Period styles in furniture. Daily. Open to freshmen, sophomores, and juniors.

**VI, VII, VIII. Woodwork I**—3 hours. **II and III**—each 2 hours. Study of tools and exercises in the use of tools. Materials of construction. Elementary cabinet work. These courses must be taken in consecutive order. **I**—Laboratory work, 6 periods a week. **II and III**—Laboratory work, each 4 periods a week. Open to sophomores, juniors, and seniors.

**IX. Woodwork IV**—5 hours. Advanced problems in design and construction. Laboratory work, 10 periods a week. Prerequisite: Woodwork I, II, III. Open to sophomores, juniors, and seniors.

**X. Wood Turning**—2 hours. The woodturning lathe. Various methods of turning. Laboratory work, 4 periods a week. Open to freshmen and sophomores.



XI. **Wood Finishing**—2 hours. Purposes and kinds of finishing. Preparation and application of finishing materials. Open to freshmen, sophomores, and juniors.

XII. **Cabinet Making**—5 hours. Design and construction applied to advanced cabinet projects. Period furniture. Emphasis upon detail and finish. Laboratory work, 10 periods a week. Prerequisite: Woodwork I-IV. Open to juniors and seniors.

XIII, XIV. **Metal Work I and II**—each 2½ hours. The design and construction of articles in tin plate, brass, copper, galvanized iron, strap iron, and heavy sheet iron. Daily. Metal Work I or equivalent preparation is a prerequisite of Metal Work II. Metal Work I is open to freshmen and sophomores. Metal Work II is open to sophomores, juniors, and seniors.

XV. **General Shop and Home Mechanics**—3 hours. Shop organization and procedure, individual instruction sheets, original projects. Daily. Open to juniors and seniors.

XVI. **Automobile Mechanics I**—5 hours. The general care and repair of the automobile. Laboratory work, 10 periods a week. Open to sophomores, juniors, and seniors.

XVII. **Automobile Mechanics II**—5 hours. Intensive study of automobile engines and electrical equipment, with laboratory practice in adjustments, repairs, and replacements. Laboratory work, 10 periods a week. Prerequisite: Automobile Mechanics I. Open to sophomores, juniors, and seniors.

XVIII. **The Planning and Equipment of the School Shop**—2 hours. Plans for buildings and rooms. Purchase and arrangement of equipment. Suitable equipment for special conditions. The cost of equipment, supplies, and maintenance. Open to juniors and seniors.

XIX. **Organization and Administration of Manual Arts**—5 hours. Objectives of manual arts for different school levels. Bases of organization. Character of work for different levels and different types of schools. Organization of courses of study and teaching material. Class organization for individual and group work. Prerequisite: Woodwork I and II and Mechanical Drawing I and II. Open to sophomores, juniors, and seniors.

XX. **The Teaching of Manual Arts**—3 hours. This course has been approved as a course in education (Education XXXIIIb) for a student whose major is manual arts and for a student on the special curriculum leading to the degree of Bachelor of Science in Manual Arts. Prerequisite: Educational Psychology I, Woodwork I and II, Mechanical Drawing I and II, and Methods and Measurements in the High School. Open to juniors and seniors.

## EDUCATION

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### 1. Psychology

I. **Educational Psychology I**—5 hours. No credit for a student who has credit for Psychology I or Child Psychology. An introduction to

the study of mental processes with special attention to the psychology of learning and to habit formation. Open to freshmen and sophomores.

II. **Educational Psychology II**—5 hours. A continuation of Educational Psychology I with special attention to individual differences. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

III. **Child Psychology**—5 hours. No credit for a student who has credit for Psychology I or Educational Psychology I. Common tendencies and traits of children. Individual differences in early childhood. Open to freshmen and sophomores.

IV. **Personality Development of Children**—3 hours. Open to juniors and seniors.

V. **Mental Hygiene**—2 hours. Behavior problems of young children. Open to juniors and seniors.

VI. **Genetic Psychology**—5 hours. The origin and development of consciousness in the child and in the race. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

VII. **Psychology of Adolescence**—5 hours. The changing attitudes and concepts of youths from eleven to eighteen years of age. The mental and physical influences that retard or accelerate mental growth. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

VIII. **Social Psychology**—5 hours. The thinking and behavior of people as affected by their association with one another. A course in group psychology. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

IX. **Experimental Psychology**—5 hours. Typical experiments in approved lines of psychological investigation. Methods of experimentation and their significance for the public school teacher. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

## 2. Education

A student whose major is nursery school and kindergarten education must complete the work of the two-year curriculum for teachers in nursery school and kindergarten, and in the work of the junior and senior years must include Personality Development of Children; Mental Hygiene; Literature for Primary Children; History of Nursery School, Kindergarten, and Primary Education; Mental Tests and Measurements for Young Children; Current Literature of Child Development; and Parent Education.

A student whose major is primary education must complete the work of the two-year curriculum for teachers in primary grades and in the work of the junior and senior years must include Literature for Primary Children; The Primary Curriculum; and History of Nursery School, Kindergarten, and Primary Education.

A student whose major is elementary education must complete the work in psychology and education required on the two-year curriculum for teachers in grades above the primary, and must include in his work Statistical Methods in Education, Tests and Measurements for

\*A student who has earned credit for Child Psychology on the curriculum for teachers in nursery school and kindergarten or on the curriculum for teachers in primary grades may use Child Psychology as the prerequisite.



the Elementary School, Elementary School Supervision, and School Administration or Consolidated School Administration.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Opportunity Room Education, see page 47.

**I. Introduction to Education—5 hours.** A survey of the field of education with attention to historical development; the profession of teaching, its development and opportunities. Open to freshmen and sophomores.

**II. Methods in Nursery School and Kindergarten Work—5 hours.** Credit only on the curriculum for teachers in nursery school and kindergarten and for a student whose major is nursery school and kindergarten education. Principles and methods of kindergarten and nursery-school teaching. Prerequisite: 10 hours of psychology and education. Open to sophomores, juniors, and seniors.

**III. Primary Methods in Reading and Mathematics—5 hours.** Credit only on the curricula for teachers in nursery school and kindergarten and for teachers in primary grades, and for a student whose major is nursery school and kindergarten education or primary education. Principles and aims of the teaching of primary reading and mathematics with special attention to methods. Open to freshmen and sophomores.

**IV. Primary Methods in Language and Literature—5 hours.** Credit only on the curriculum for teachers in primary grades and for a student whose major is primary education. Principles and methods involved in the teaching of language, writing, and spelling in the primary grades, and the relation of these to other subjects in the curriculum. Special work in the selection and presentation of stories and poems suitable for primary grades. Open to freshmen and sophomores.

**V. Elementary School Methods—5 hours.** No credit for a student who has credit for Rural School Methods. Methods of teaching the elementary school subjects. The principles which underlie various methods of instruction. Open to freshmen and sophomores.

**VI. Rural School Methods—5 hours.** No credit for a student who has credit for Elementary School Methods. Methods of teaching the common branches under rural school conditions. Open to freshmen and sophomores.

**VII. The Teaching of Reading and Spelling—5 hours.** The teaching of reading and spelling in the elementary school. Open to juniors and seniors.

**VIII. The Teaching of Social Studies in the Elementary School—3 hours.** Credit only for a student whose major is nursery school and kindergarten education, primary education, or elementary education. Materials and methods. The integration of the social sciences in the elementary grades. Open to juniors and seniors.

**IX. Literature for Primary Children—5 hours.** Credit only for a student whose major is nursery school and kindergarten education or primary education. Open to juniors and seniors.

**X. The Education of Exceptional Children—5 hours.** The organization of subject matter for opportunity-room teaching. Methods of teaching subnormal, backward, and unusually bright children. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

\*A student who has earned credit for Child Psychology on the curriculum for teachers in nursery school and kindergarten or on the curriculum for teachers in primary grades may use Child Psychology as the prerequisite.

XI. **Teaching Techniques**—2 hours. Recent developments in educational methods for the elementary school. Open to juniors and seniors. Spring and summer terms.

XII. **Current Literature of Child Development**—3 hours. Open to juniors and seniors.

XIII. **Parent Education**—5 hours. Open to juniors and seniors.

XIV. **Statistical Methods in Education**—2 hours. No credit for a student who has credit for Statistical Measurement. Statistical methods in common use without detailed reference to their mathematical foundations. The use of these methods in the construction of tests and the classification of pupils. Open to sophomores, juniors, and seniors.

XV. **Mental Tests and Measurements for Young Children**—3 hours. Open to juniors and seniors.

XVI. **Tests and Measurements for the Elementary School**—3 hours. Leading tests in the elementary school field; methods of administering and scoring tests; diagnosis of difficulties. Prerequisite: Statistical Methods in Education. Open to juniors and seniors.

XVII. **Mental Tests**—2 hours. The Stanford revision of the Binet-Simon tests and the leading group tests of mental ability. Methods of administering and scoring the tests and of tabulating and interpreting the results. Prerequisite: \*Educational Psychology I. Open to juniors and seniors.

XVIII. **Methods and Measurements in the High School**—5 hours. Methods of teaching the high-school subjects; measurement of the results of teaching; remedial treatment. Prerequisite: Statistical Methods in Education. Open to juniors and seniors.

XIX. **The Primary Curriculum**—5 hours. Credit only for a student whose major is nursery school and kindergarten education or primary education. The purpose, origin, construction, and function of the primary school curriculum. Open to juniors and seniors.

XX. **The Elementary School Curriculum**—3 hours. The origin, function, purpose, and construction of the elementary school curriculum with special attention to the grades above the primary. Open to juniors and seniors. Summer term.

XXI. **The Junior High School**—3 hours. Problems involved in the organization of the junior high school. Open to juniors and seniors. Spring and summer terms.

XXII. **The Consolidated School**—5 hours. The development of the consolidated school, its place in education, and its relation to the community. Open to sophomores, juniors, and seniors.

XXIII. **Elementary School Management**—5 hours. Credit toward a degree only for a student whose major is elementary education or teaching and critic training and for a student on the special curriculum leading to the degree of Bachelor of Science in Opportunity Room Education. No credit for a student who has credit for Rural School

\*A student who has earned credit for Child Psychology on the curriculum for teachers in nursery school and kindergarten or on the curriculum for teachers in primary grades may use Child Psychology as the prerequisite.



Management, Elementary Schoolroom Procedure, or Management and Measurements. The problems of management of the elementary school. Open to freshmen and sophomores.

**XXIV. Rural School Management—5 hours.** Credit toward a degree only for a student whose major is elementary education or teaching and critic training and for a student on the special curriculum leading to the degree of Bachelor of Science in Opportunity Room Education. No credit for a student who has credit for Elementary School Management, Elementary Schoolroom Procedure, or Management and Measurements. The extra-instructional activities of the rural school teacher. Open to freshmen and sophomores.

**XXV. Elementary School Supervision—5 hours.** A course primarily for elementary school principals, supervisors, and superintendents. Open to juniors and seniors.

**XXVI. School Administration—5 hours.** No credit for a student who has credit for Consolidated School Administration. The relation of the administrator to the community and the school. Buildings, equipment, promotions, records, reports, course of study, sanitation, transportation, and important school legislation. Open to juniors and seniors.

**XXVII. Consolidated School Administration—5 hours.** No credit for a student who has credit for School Administration. A course for teachers, principals, and superintendents in consolidated schools. Open to juniors and seniors.

**XXVIII. Problems of Student Advisers—3 hours.** Special problems of adolescence. A course for women only. Open to juniors and seniors. Spring and summer terms.

**XXIX. History of Nursery School, Kindergarten, and Primary Education—5 hours.** Credit only for a student whose major is nursery school and kindergarten education or primary education. The history of infant schools, of the Montessori nursery schools, of the Froebellian and modern kindergartens, and of primary education. Open to juniors and seniors.

**XXX. Vocational Education—5 hours.** The history of vocational education and the problems of vocational guidance. Open to juniors and seniors.

**XXXI. History of American Education—5 hours.** The origin and growth of education in the United States. Open to juniors and seniors.

**XXXII. History of Education—5 hours.** Educational ideals, ancient and modern. National educational systems. Current educational problems in the light of experiences of the past. Open to juniors and seniors.

**XXXIII. Courses in the Teaching of Special Subjects.** The following courses given in other departments have been approved as courses in education for the classes of students designated in the description of the courses in the departmental statements of courses of instruction. Credit for any one of these courses, though counted but once toward graduation, may be used in meeting the requirements in education and at the same time in the special subject.

(a) The Teaching of Art (Art XXI)—3 hours

- (b) The Teaching of Manual Arts (Manual Arts XX)—3 hours
- (c) The Teaching of English (English XXVII)—3 hours
- (d) Methods in Home Economics (Home Economics XX)—3 hours
- (e) The Teaching of Latin (Latin XVII)—3 hours
- (f) The Teaching of Secondary Mathematics (Mathematics XXII)—5 hours
- (g) The Teaching of Shorthand and Typewriting (Commercial Education XXVII)—3 hours
- (h) The Teaching of Bookkeeping (Commercial Education XXVIII)—2 hours
- (i) The Teaching of Physics (Physics XIV)—3 hours
- (j) The Teaching of Chemistry (Chemistry XX)—3 hours
- (k) The Teaching of the Social Sciences (History XVII)—5 hours

## ENGLISH

### 1. English

English I, unless release from this course has been granted, is a prerequisite of all other courses in English.

A major in English must include 5 hours of English composition from courses not open to freshmen; English Literature, 670-1625; Shakespeare; English Poets since 1875 and English Prose Writers since 1875 or American Poets since 1875 and American Prose Writers since 1875; History of the English Language; American Literature, 1640 to 1875; The Teaching of English; and 7 hours of elective work in English.

English I may not be included in a major or a minor in English.

#### A. Composition

I. English I—5 hours. Study of specimens of exposition. Exercises in expository writing. Required of all freshmen. Each term.

Freshmen who show on the basis of preliminary tests unusual ability in English composition will be excused from English I as a freshman requirement and as a prerequisite of other courses.

English O—No credit. Freshman students not properly prepared for English I must register for English O. During the first three weeks of any term students registered for English O may be advanced to English I without loss of credit in English I. All other students registered for English O must earn a passing grade in this course before registering for English I unless released from this requirement by the head of the Department of English.

II. Description and Narration—5 hours. No credit for a student who has credit for 6 semester hours of Freshman English. Open to freshmen, sophomores, and juniors. Each term.

III. Advanced Exposition—5 hours. Study of difficult specimens of exposition. Application of principles and methods in original work. Open to sophomores, juniors, and seniors. Fall term.

IV. Advanced Story Writing—5 hours. Technique of the short story. Writing of short stories. Open to juniors and seniors. Winter and spring terms.

V. The Essay—5 hours. Development of the essay. Practice in the writing of original essays. Open to juniors and seniors. Winter and spring terms.



VI. **Journalism I**—5 hours. No credit for a student who has credit for News Gathering and News Writing or Copy Reading and Copy Editing. News values; methods of obtaining, verifying, and presenting news; preparation of newspaper copy for publication; newspaper style and make-up. Open to sophomores, juniors, and seniors. Fall and spring terms.

VII. **Journalism II**—5 hours. No credit for a student who has credit for Editorial Writing or Feature Writing. Practice in writing feature stories for publication. Criticism and writing of newspaper editorials of various types. Open to juniors and seniors. Winter term.

VIII. **High School Publications**—1 hour. Management and publication of high-school papers and annuals. Open to juniors and seniors. Spring term.

### B. Language and Literature

IX. **Elements of Literature**—5 hours. No credit for a student whose major is English. The characteristics of the chief kinds of literature. Reading of typical works. This course is recommended for those who take only one term of English literature. Open to freshmen and sophomores. Each term.

X. **English Literature, 670-1625**—5 hours. No credit for a student who has credit for Old English or Chaucer. Important authors of the period, except Shakespeare, with special attention to Chaucer. Open to sophomores, juniors, and seniors. Fall term.

XI. **English Literature, 1625-1784**—5 hours. No credit for a student who has credit for The Age of Classicism. Open to sophomores, juniors, and seniors. Winter term.

XII. **English Literature, 1784-1832**—5 hours. No credit for a student who has credit for The English Romantic Movement. Open to juniors and seniors. Spring term.

XIII. **English Literature, 1832-1880**—5 hours. No credit for a student who has credit for Tennyson and Browning, Victorian Prose, or Victorian Poetry. Open to juniors and seniors. Fall and winter terms.

XIV. **Development of the English Drama**—5 hours. English drama from its beginning to the time of Shakespeare. Open to juniors and seniors. Fall term.

XV. **Shakespeare**—5 hours. Intensive study of selected plays; reading of other plays; brief study of the non-dramatic works of Shakespeare. Open to sophomores, juniors, and seniors.

XVI. **The English Novel, 1740-1875**—5 hours. Open to juniors and seniors. Spring term.

XVII. **English Poets since 1875**—2 hours. Open to juniors and seniors. Winter term.

XVIII. **English Prose Writers since 1875**—3 hours. Open to juniors and seniors. Winter term.

XIX. **American Literature, 1640-1875**—5 hours. No credit for a student who has credit for American Prose Writers or Chief American Poets. The development of American literature. Reading of works of the principal authors. Open to juniors and seniors. Fall term.

XX. American Prose Writers, 1825-1875—2 hours. No credit for a student whose major is English. Open to freshmen and sophomores. Winter term.

XXI. American Poets, 1825-1875—3 hours. No credit for a student whose major is English. Open to freshmen and sophomores. Winter term.

XXII. American Prose Writers since 1875—3 hours. Open to sophomores, juniors, and seniors. Fall and spring terms.

XXIII. American Poets since 1875—2 hours. Open to sophomores, juniors, and seniors. Fall and spring terms.

XXIV. Literary Criticism—5 hours. Open to juniors and seniors. Spring term.

XXV. Technique of English Poetry—5 hours. Open to juniors and seniors. Winter term.

XXVI. History of the English Language—5 hours. A survey of the development of the English language with special reference to modern English grammar and vocabulary. Open to juniors and seniors. Spring term.

XXVII. The Teaching of English—3 hours. This course has been approved as a course in education (Education XXXIIIc) for a student whose major is English. Prerequisite: 15 hours of English and Methods and Measurements in the High School. Open to juniors and seniors. Spring term.

## 2. Speech

English I, unless release from this course has been granted, is a prerequisite of all courses in speech.

Advanced Story Writing and Shakespeare, though not included in the speech major line, may be used in meeting the requirements of a major in speech.

I. Public Speaking—5 hours. The principles of effective speaking. Study and analysis of different forms of public address with practice in oral discussion of current issues. Open to freshmen, sophomores, and juniors. Each term.

II. Theory of Debating—2 hours. Briefing, note taking, card indexing, evaluation of evidence, principles of rebuttal, strategy of debate, platform deportment, and duties of different speakers. This course should accompany Debating. Open to sophomores, juniors, and seniors. Winter term.

III. Debating—3 hours. Intensive study of a debate question with forensic practice. With change of the debate question this course may be repeated once for 3 hours of additional credit. Required of students who participate in intercollegiate debate. Open to sophomores, juniors, and seniors. Winter term.

IV. Advanced Public Speaking—5 hours. The history, literature, and technique of the oration, with practice in various forms of public address other than debating. Prerequisite: Public Speaking. Open to juniors and seniors. Spring term.

V. Oral Interpretation I—5 hours. Open to freshmen, sophomores, and juniors. Each term.



VI. **Oral Interpretation II**—5 hours. A continuation of Oral Interpretation I. Prerequisite: Oral Interpretation I or equivalent preparation. Open to freshmen, sophomores, and juniors. Each term.

VII. **Pedagogy of Interpretation**—5 hours. The teaching of interpretative speech in high school. Open to juniors and seniors.

VIII. **Play Production I**—5 hours. Oral interpretation of a Shakespearean comedy, a modern comedy, and one-act plays. Prerequisite: Oral Interpretation II or equivalent preparation. Open to sophomores, juniors, and seniors.

IX. **Play Production II**—5 hours. Oral interpretation of a Shakespearean tragedy, a modern tragedy, and one-act plays. Prerequisite: Oral Interpretation II or equivalent preparation. Open to juniors and seniors.

X. **Design in the Theatre**—5 hours. Scenic and costume design in the theatre from the Greek period to the present. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors. Fall term.

XI. **Technique of Scene Construction**—3 hours. Theory of scene construction with practice in building scenes. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to sophomores, juniors, and seniors. Each term.

XII. **Stage Lighting**—2 hours. Open to sophomores, juniors, and seniors. Each term.

XIII. **Speech Correction**—5 hours. The nature of speech defects; training in the diagnosis of individual cases; methods of dealing with the various kinds of defects. Prerequisite: Educational Psychology I. Open to juniors and seniors. Spring term.

## HOME ECONOMICS

A major in home economics must include Clothing I and II, Textiles, Costume Design, Foods I and II, Meal Planning and Serving, Advanced Nutrition, Child Care, Problems of Consumers, and Methods in Home Economics.

The work of a student whose major is home economics must include General Design, Applied Arts I, Description and Narration, \*Inorganic Chemistry A and B or I and II, Organic Chemistry, Chemistry of Foods and Nutrition, Animal Biology, Physiology, and American Government.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Home Economics, see page 45.

I. **\*\*Clothing I**—4 hours. No credit for a student who has credit for Clothing Selection. Problems in the selection and construction of clothing. Recitations, 2 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

II. **\*\*Clothing II**—4 hours. A continuation of Clothing I. Recitations, 2 periods a week; laboratory work, 4 periods a week. Prerequisite: Clothing I or equivalent preparation. Open to freshmen and sophomores.

\*A student who presents entrance credit for 1 unit of chemistry must take Chemistry of Nonmetals instead of Inorganic Chemistry A and B or I and II.

\*\*No credit for a student who has credit for Clothing Selection or Clothing for Children. A student who presents entrance credit for home economics may be released by the head of the Department of Home Economics from Clothing I.

III. Textiles—3 hours. The chief fibres and materials used in clothing and house furnishings. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to freshmen and sophomores.

IV. Costume Design—3 hours. Recitation, 1 period a week, laboratory work, 4 periods a week. Prerequisite: Applied Arts I. Open to sophomores, juniors, and seniors.

V. Applied Dress Design—3 hours. Historic dress designs as applied to modern clothing. Oriental embroidery and appliqué. Laboratory work, 6 periods a week. Prerequisite: Clothing II. Open to juniors and seniors.

VI. Clothing Appreciation—2 hours. Prerequisite: Costume Design. Open to juniors and seniors.

VII. Weaving and Home Crafts—3 hours. Daily. Open to juniors and seniors.

VIII. Foods I—4 hours. No credit for a student who has credit for Food Preparation and Meal Service. The principles of cookery and the nutritive facts involved. Recitations, 2 periods a week; laboratory work, 4 periods a week. Inorganic Chemistry B or equivalent preparation must precede or accompany this course. Open to freshmen and sophomores.

IX. Foods II—4 hours. A continuation of Foods I. Recitations, 2 periods a week; laboratory work, 4 periods a week. Prerequisite: Inorganic Chemistry B and Foods I or equivalent preparation. Open to freshmen and sophomores.

X. Meal Planning and Serving—3 hours. No credit for a student who has credit for Food Preparation and Meal Service. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: Foods I and II. Open to juniors and seniors.

XI. Experimental Cookery—3 hours. Recitation, 1 period a week, laboratory work, 4 periods a week. Prerequisite: Foods I and II. Open to juniors and seniors.

XII. Advanced Nutrition—4 hours. The principles of nutrition. The selection of food for normal individuals. Recitations, 3 periods a week; laboratory work, 2 periods a week. Prerequisite: Foods I and II. Chemistry of Foods and Nutrition must precede or accompany this course. Open to juniors and seniors.

XIII. Nutrition of Children—3 hours. No credit after the completion of the freshman year for a student whose major is home economics or for a student who is on the special curriculum leading to the degree of Bachelor of Science in Home Economics. Open to freshmen and sophomores.

XIV. House Furnishing and Decoration—3 hours. Prerequisite: Applied Arts I. Open to sophomores, juniors, and seniors.

XV. Home Management—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Foods I and II. Open to juniors and seniors.

XVI. Problems of Consumers—5 hours. Open to juniors and seniors.

XVII. Personal and Social Relationships—3 hours. Open to freshmen and sophomores.



XVIII. **Personal and Family Finance**—2 hours. Open to juniors and seniors.

XIX. **Child Care**—3 hours. Open to sophomores, juniors, and seniors.

XX. **Methods in Home Economics**—3 hours. This course has been approved as a course in education (Education XXXIII d) for a student whose major is home economics and for a student on the special curriculum leading to the degree of Bachelor of Science in Home Economics. Prerequisite: Methods and Measurements in the High School. Open to juniors and seniors.

### Special Courses in Home Economics

A student whose major is home economics or a student who is on the special curriculum leading to the degree of Bachelor of Science in Home Economics may not receive credit for Home Economics XXI-XXV.

XXI. **Clothing Selection**—5 hours. No credit for a student who has credit for Clothing I or II. Selection of garments from the standpoint of suitability, durability, fashion, and beauty. Open to freshmen and sophomores.

XXII. **Clothing for Children**—3 hours. No credit for a student who has credit for Clothing I or II. The selection, construction, alteration, and care of clothing for children. Daily. Open to freshmen and sophomores.

XXIII. **Elementary Nutrition**—3 hours. No credit for a student who has credit for Foods I and II. Selection of food in relation to food values. Open to freshmen, sophomores, and juniors.

XXIV. **Food Preparation and Meal Service**—5 hours. No credit for a student who has credit for Foods I or II. Recitations, 2 periods a week; laboratory work, 6 periods a week. Open to freshmen and sophomores.

XXV. **The School Lunch**—2½ hours. Credit only on the curriculum for teachers in rural schools. The management, selection, and organization of the school lunch. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to freshmen and sophomores.

## LATIN, GREEK, AND GERMAN

### 1. Latin

With the consent of the adviser, 10 hours of work from Greek III and IV, though not included in the Latin major line, may be used in meeting the requirements of a major in Latin.

The Latin courses of a major and all the work of a minor in Latin must be selected from Latin IX-XVII.

A minor in Latin taken as preparation for teaching Latin should include Latin IX, X, XV, and XVII.

I. **\*Elementary Latin I**—5 hours. A course for beginners. Open to freshmen, sophomores, and juniors.

II. **\*Elementary Latin II**—5 hours. A continuation of Elementary Latin I. Prerequisite: one year of high-school Latin or equivalent preparation. Open to freshmen, sophomores, and juniors.

**\*Elementary Latin III** must be completed before credit for Elementary Latin I or II may be used in meeting the requirements for graduation.

III. **Elementary Latin III**—5 hours. Selections from Caesar's Gallic War. Writing of Latin. Prerequisite: Elementary Latin II or equivalent preparation. Open to freshmen, sophomores, and juniors.

IV. **Cicero's Orations I**—5 hours. Selections from the orations against Catiline. Review of Latin grammar. Writing of Latin. Prerequisite: two years of high-school Latin or Elementary Latin III or equivalent preparation. Open to freshmen, sophomores, and juniors.

V. **Cicero's Orations II**—5 hours. Selected orations. Open to freshmen, sophomores, and juniors.

VI. **Ovid**—5 hours. Easy stories from the *Metamorphoses*. Review of Latin grammar. Writing of Latin. Prerequisite: two years of high-school Latin or Elementary Latin III or equivalent preparation. Open to freshmen, sophomores, and juniors.

VII. **Vergil I**—5 hours. Selections from the *Aeneid*. Open to freshmen, sophomores, and juniors.

VIII. **Vergil II**—5 hours. A continuation of Vergil I. Open to freshmen, sophomores, and juniors.

IX. **Cicero's Cato Major and Latin Composition**—5 hours. Translation with special study of the process of understanding and translating Latin. Review of Latin grammar. Composition exercises involving systematic drill in syntax. Prerequisite: four years of high-school Latin or other preparation approved by the head of the department. Open to freshmen, sophomores, and juniors.

X. **Pliny's Letters**—5 hours. Prerequisite: four years of high-school Latin or other preparation approved by the head of the department. Open to freshmen, sophomores, and juniors.

XI. **Epodes and Odes of Horace**—5 hours. Prerequisite: Latin IX or equivalent preparation. Open to freshmen, sophomores, and juniors.

XII. **Livy**—5 hours. Prerequisite: Latin IX or equivalent preparation. Open to sophomores, juniors, and seniors.

XIII. **Plutus, Terence, Catullus, Cicero's Letters, Vergil's Bucolics, Vergil's Georgics, Satires of Horace, Epistles of Horace, Tibullus, Propertius, The Agricola of Tacitus, The Annals of Tacitus, Juvenal**—2 to 25 hours. Prerequisite: Latin IX or equivalent preparation. Open to juniors and seniors.

XIV. **Studies in Caesar**—5 hours. Interpretation of selections from the Gallic War and from the Civil War with attention to the historical background and to Roman military antiquities. Prerequisite: Latin IX or equivalent preparation. Open to juniors and seniors.

XV. **Latin Composition**—5 hours. Prerequisite: Latin IX or equivalent preparation. Open to sophomores, juniors, and seniors.

XVI. **Historical Latin Grammar**—5 hours. The development of the Latin declensions and conjugations and of the more frequent Latin constructions. This course must be preceded or accompanied by Greek I. Prerequisite: Latin IX or equivalent preparation. Open to juniors and seniors.

XVII. **The Teaching of Latin**—3 hours. This course has been approved as a course in education (Education XXXIIIe) for a student



whose major is Latin. Prerequisite: Latin IX or equivalent preparation and Methods and Measurements in the High School. Open to juniors and seniors.

## 2. Greek

I. \*The Elements of Greek—5 hours. A course for beginners. Open to sophomores, juniors, and seniors.

II. \*Xenophon—5 hours. Selections from the Anabasis. Writing of Greek. Open to sophomores, juniors, and seniors.

III. Homer—5 hours. Selections from the Iliad. Open to sophomores, juniors, and seniors.

IV. Homer, Greek Drama, Greek Prose Writers—3 to 10 hours. Open to juniors and seniors.

## 3. German

I. †German I—5 hours. A course for beginners. Open to freshmen, sophomores, and juniors.

II. †German II—5 hours. A continuation of German I. Open to freshmen, sophomores, and juniors.

III. German Stories and Plays—5 hours. Prerequisite: one year of high-school German or equivalent preparation. Open to freshmen, sophomores, and juniors.

IV. Recent German Prose—5 hours. Prerequisite: two years of high-school German or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

V. Goethe's Hermann und Dorothea—2 hours. Prerequisite: German IV or equivalent preparation. Open to sophomores, juniors, and seniors.

VI. Schiller's Dramas—5 hours. Prerequisite: German IV or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VII. German Drama of the Nineteenth Century—5 hours. Representative works of Heinrich von Kleist, Grillparzer, Hebbel, Ludwig, Anzengruber, and Hauptmann. Prerequisite: German IV or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIII. Contemporary German Literature—5 hours. Prerequisite: German IV or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

IX. German Composition and Advanced Grammar—3 hours. Prerequisite: German IV or equivalent preparation. Open to sophomores, juniors, and seniors.

\*Greek III must be completed before credit for Greek I or II may be used in meeting the requirements for graduation.

†German III must be completed before credit for German I or II may be used in meeting the requirements for graduation.

\*\*Open also to freshmen who have had two years of high-school German or equivalent preparation.

X. German Lyrics and Ballads—5 hours. Prerequisite: German IV or equivalent preparation. Open to juniors and seniors.

XI. Scientific German—5 hours. Selections from the literature of chemistry, physics, biology, and other sciences. Prerequisite: German IV and 10 hours of work from German V-X. Open to juniors and seniors.

XII. Lessing—5 hours. Prerequisite: German IV and 10 hours from German V-X. Open to juniors and seniors.

XIII. Goethe—5 hours. Prerequisite: German IV and 10 hours of work from German V-X. Open to juniors and seniors.

XIV. History of German Literature—3 hours. Prerequisite: German IV and 10 hours of work from German V-X. Open to juniors and seniors.

XV. The Teaching of German—2 hours. Prerequisite: German IV and 10 hours of work from German V-X and Methods and Measurements in the High School. Open to juniors and seniors.

## MATHEMATICS AND COMMERCIAL EDUCATION

### 1. Mathematics

Advanced Mechanics and Alternating Currents, though not included in the mathematics major line, may be used in meeting the requirements of a major in mathematics.

I. Mathematics I, College Algebra—5 hours. Open to freshmen, sophomores, and juniors.

II. Mathematics II—5 hours. Theory of trigonometry and a continuation of college algebra. Prerequisite: Mathematics I. Open to freshmen, sophomores, and juniors.

III. Mathematics III—5 hours. Analytical geometry and allied topics. Prerequisite: Mathematics II. Open to freshmen, sophomores, and juniors.

IV. Calculus I—5 hours. A general course in differential and integral calculus with applications. Prerequisite: Mathematics III. Open to sophomores, juniors, and seniors.

V. Calculus II—5 hours. A continuation of Calculus I. Open to sophomores, juniors, and seniors.

VI. Calculus III—5 hours. Taylor's theorem, series, theorem of the mean, partial differentiation surfaces, practical applications, easy differential equations. Prerequisite: Calculus II. Open to sophomores, juniors, and seniors.

VII. Spherical Trigonometry—2 hours. Prerequisite: Mathematics II. Open to sophomores, juniors, and seniors.

VIII. Surveying—3 hours. Principles and operations; field practice in measurement; leveling. Four periods a week. Prerequisite: Mathematics II. Open to sophomores, juniors, and seniors.

IX. Theory of Equations—5 hours. The complex number and the system of numbers based upon the imaginary unit; the analytic cri-



terion for constructions with ruler and compasses; the impossible constructions of Euclidian Geometry; the solution of numerical equations by Newton's and Horner's methods; the determinants for systems of linear equations in  $n$  unknowns. Prerequisite: Calculus I. Open to juniors and seniors.

X. **Theoretical Mechanics A**—3 hours. The principles of dynamics and their application in the field of mathematical physics. Prerequisite: Calculus I. Open to juniors and seniors.

XI. **Theoretical Mechanics B**—2 hours. The size of stars and their probable distribution, determination of orbits, mass, density, distance; the law of gravitation; Kepler's laws; velocity of escape of gases. Prerequisite: Calculus I. Open to juniors and seniors.

XII. **Number Systems**—2 hours. Positive integers and operations with integers defined; negative, rational and irrational, and complex numbers; historical study of number development. Open to juniors and seniors.

XIII. **Modern Algebra**—5 hours. Analytical trigonometry, hyperbolic functions, vectors, and introduction to functions of a complex variable. Prerequisite: Calculus I. Open to juniors and seniors.

XIV. **Modern Geometry A, Projective Geometry**—3 hours. Prerequisite: Mathematics II. Open to sophomores, juniors, and seniors.

XV. **Modern Geometry B, Advanced Euclidian Geometry**—2 hours. Prerequisite: Mathematics II. Open to sophomores, juniors, and seniors.

XVI. **Differential Equations**—3 hours. Differential equations of the first order and linear equations with constant coefficients, with emphasis upon forms occurring in mechanics and physics. Prerequisite: Calculus II. Open to juniors and seniors.

XVII. **Mathematics of Finance**—3 hours. Sinking funds, depreciation, bonds, building and loan associations, and life insurance. Open to sophomores, juniors, and seniors.

XVIII. **Statistical Measurement**—5 hours. The mathematics of statistical methods. Prerequisite: Mathematics I and II or equivalent preparation. Open to sophomores, juniors, and seniors.

XIX. **History of Mathematics**—3 hours. Prerequisite: Mathematics III. Open to juniors and seniors.

XX. **Principles of Elementary Mathematics I**—5 hours. Credit only on the curricula for teachers in grades above the primary, for teachers in rural schools, and for teachers in consolidated schools, and for a student whose major is elementary education or mathematics. Essential subject matter and its organization; the technique of teaching elementary mathematics; diagnostic and remedial work; textbooks and supplementary material. Open to freshmen and sophomores.

XXI. **Principles of Elementary Mathematics II**—3 hours. Organization of subject matter; the relation of arithmetic to the whole curriculum; the evaluation of teaching procedures; the testing program. Open to juniors and seniors.

XXII. **The Teaching of Secondary Mathematics**—5 hours. This course has been approved as a course in education (Education

XXXIII<sup>f</sup>) for a student whose major is mathematics. Prerequisite: two courses in college mathematics and Methods and Measurements in the High School. Open to juniors and seniors.

## 2. Commercial Education

A major in commercial education must include Typewriting I and II or II and III, 38 hours of elective work in commercial education, and one term of penmanship.

Money and Banking, though not included in the commercial education major line, may be used in meeting the requirements of a major in commercial education.

The work of a student whose major is commercial education must include Commercial and Industrial Geography.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Commercial Education, see page 45.

I. Penmanship A, B—Drill credit. Muscular movement in writing with special attention to the teaching of penmanship. Daily.

II. \*Typewriting I—1 hour. No credit for a student who presents entrance credit for 1 unit of typewriting. Mechanism and operation of the typewriter with special attention to technique and rhythm. The standard of speed is fifteen to twenty-five words a minute. Daily. Open to freshmen, sophomores, and juniors.

III. \*Typewriting II—1 hour. Practice in typing business letters, telegrams, drafts, and business papers. The standard of speed is from twenty-five to forty words a minute. Daily. Prerequisite: Typewriting I or equivalent preparation. Open to freshmen, sophomores, and juniors.

IV. \*Typewriting III—1 hour. Typing of reports and manuscripts; tabulation of statistics; use and care of the mimeograph. The standard of speed is thirty-five to fifty words a minute. Daily. Prerequisite: Typewriting II or equivalent preparation. Open to freshmen, sophomores, and juniors.

V. \*\*Shorthand I—5 hours. No credit for a student who presents entrance credit for 1 unit of shorthand. The principles of the Gregg System. Prerequisite: Typewriting I or equivalent preparation. Open to freshmen and sophomores.

VI. Shorthand II—5 hours. A continuation of Shorthand I. Plate reading and dictation. Prerequisite: Shorthand I or equivalent preparation. Open to freshmen and sophomores.

VII. Shorthand III—5 hours. Dictation, reporting, transcription of letters and lectures. Open to sophomores, juniors, and seniors.

VIII. Accounting I—5 hours. Fundamental principles of accounting; theories of debit and credit; journalizing and posting; compiling of trial balances, balance sheets, and statements of profit and loss. Open to freshmen, sophomores, and juniors.

\*A student whose major is commercial education and a student on the special curriculum leading to the degree of Bachelor of Science in Commercial Education may use in meeting the requirements for graduation 3 hours from Typewriting I, II, III; other students, only 1 hour.

\*\*Shorthand II must be completed before credit for Shorthand I may be used in meeting the requirements for graduation.



**IX. Accounting II**—5 hours. Partnership and corporation accounting, with special attention to the voucher system. The classification of accounts; accrued items, deferred items, and reserves. Prerequisite: Accounting I. Open to freshmen, sophomores, and juniors.

**X. Accounting III**—5 hours. Advanced phases of partnership and corporation accounting; departmental working sheets and statements; the interpretation of incomplete records; exercises based mainly upon C. P. A. problems. Prerequisite: Accounting II. Open to freshmen, sophomores, and juniors.

**XI. Machine Accounting**—1 hour. Use of the accounting machine in bank and mercantile accounting. Two periods of class work or laboratory work a week. Prerequisite: elementary bookkeeping or equivalent preparation. Open to sophomores, juniors, and seniors.

**XII. Secretarial Training I**—3 hours. Qualifications and duties of a secretary. Arrangement of office equipment. Open to juniors and seniors.

**XIII. Secretarial Training II**—2 hours. The Library Bureau system of alphabetic, numeric, geographic, and automatic-numeric filing. Open to juniors and seniors.

**XIV. Commercial Correspondence**—5 hours. The preparation and use of business letters and reports. Open to sophomores, juniors, and seniors.

**XV. Methods in Junior Business Training**—3 hours. Clerical practices and office procedures on a level with the occupational opportunities of high-school students. Open to juniors and seniors.

**XVI. Retail Merchandising**—3 hours. Establishing a business, locating the store, financing, buying, pricing, advertising, selling, accounting, business forecasting. Open to juniors and seniors.

**XVII. Salesmanship**—2 hours. Selling problems of manufacturers, wholesalers, and retailers. Open to juniors and seniors.

**XVIII. Advertising**—3 hours. The inception of advertising ideas and their development. The planning and preparing of advertisements. Open to sophomores, juniors, and seniors.

**XIX. Marketing**—3 hours. The activities involved in transferring goods from producer to consumer. Open to juniors and seniors.

**XX. Business Organization**—2 hours. Theory and practice of business organization. Open to juniors and seniors.

**XXI. Business Ethics**—2 hours. Open to juniors and seniors.

**XXII. Business Publications**—1 hour. Current business magazines and new books on commercial subjects. Lectures, readings, and reports. Open to juniors and seniors.

**XXIII. Commercial Law I**—5 hours. Open to sophomores, juniors, and seniors.

**XXIV. Commercial Law II**—3 hours. A continuation of Commercial Law I. Prerequisite: Commercial Law I. Open to sophomores, juniors, and seniors.

**XXV. History of Commerce**—2 hours. Origin and development of domestic and foreign commerce. Open to juniors and seniors.

**XXVI. Problems in Commercial Education**—2 hours. The field and objectives of commercial education; selection and organization of subject matter; equipment of commercial departments; community surveys and vocational guidance in coöperation with business firms; testing and remedial work. Open to juniors and seniors.

**XXVII. The Teaching of Shorthand and Typewriting**—3 hours. This course has been approved as a course in education (Education XXXIIIg) for a student whose major is commercial education and for a student on the special curriculum leading to the degree of Bachelor of Science in Commercial Education. Prerequisite: Typewriting I, II, III; Shorthand I, II, III; and Methods and Measurements in the High School. Open to juniors and seniors.

**XXVIII. The Teaching of Bookkeeping**—2 hours. This course has been approved as a course in education (Education XXXIIIh) for a student whose major is commercial education and for a student on the special curriculum leading to the degree of Bachelor of Science in Commercial Education. Prerequisite: 10 hours of work from Accounting I, II, III and Methods and Measurements in the High School. Open to juniors and seniors.

## MUSIC

A major in music must include High School Music, Music I and II, Sight Singing, Ear Training and Dictation, Music Methods I and II, Choral Conducting, Harmony I, II, III, History of Music I and II, Music Appreciation, Music Supervision, 12 hours of Applied Music, Supervisors Violin A, B, C, and Orchestra Conducting.

A minor in music must include Music I and II, Sight Singing, High School Music, Music Methods I and II, Choral Conducting, 2 hours of Voice, and 2 hours of Piano.

For the special curriculum leading to the degree of Bachelor of Science in Music, see page 47.

**I. Drill Music**—Drill credit. A beginning course in school music. Daily.

**II. Elements of Music**—2½ hours. No credit for a student whose major is music or for a student on the special curriculum leading to the degree of Bachelor of Science in Music. No credit for a student who has credit for Drill Music or Music I. Introductory course in school music consisting of singing, rhythmic development, and elementary theory. Preparation for sight singing. Daily. Open to freshmen and sophomores.

**III. Music for Nursery School, Kindergarten, and Primary Grades**—2½ hours. Credit only on the curricula for teachers in nursery school and kindergarten and for teachers in primary grades, and for a student whose major is nursery school and kindergarten education or primary education. No credit for a student who has credit for Music I or Music II. A continuation of Elements of Music. Daily. Prerequisite: Elements of Music or equivalent preparation. Open to freshmen and sophomores.

**IV. Music for Intermediate Grades**—2 hours. No credit for a student whose major is music or for a student on the special curriculum leading to the degree of Bachelor of Science in Music. No credit for a student who has credit for Music I or Music II. A con-



tinuation of Drill Music. Training in singing; essentials of theory; sight singing, ear training, and dictation; elementary conducting. Three periods a week. Prerequisite: Drill Music or equivalent preparation. Open to freshmen and sophomores.

V. **High School Music**—5 hours. Material for high-school music including cantatas and operettas. Courses of study in music for junior and senior high schools. Advanced conducting. *A cappella* singing. Prerequisite: Choral Conducting. Open to juniors and seniors.

VI. **Music I**—3 hours. No credit for a student who has credit for Elements of Music; Music for Nursery School, Kindergarten, and Primary Grades; or Music for Intermediate Grades. Singing and rhythmic development; elementary theory; notation; preparation for sight singing. Open to freshmen and sophomores.

VII. **Music II**—3 hours. No credit for a student who has credit for Music for Nursery School, Kindergarten, and Primary Grades; or Music for Intermediate Grades. A continuation of Music I. Dalcrose eurythmics simplified and adapted. Open to freshmen and sophomores.

VIII. **Sight Singing**—3 hours. Use of material for the elementary grades. Open to freshmen and sophomores.

IX. **Ear Training and Dictation**—3 hours. Open to sophomores, juniors, and seniors.

X. **Music Methods I**—2 hours. Methods for primary grades. Prerequisite: Music I and II and Sight Singing. Open to sophomores, juniors, and seniors.

XI. **Music Methods II**—3 hours. Methods for upper grades. Prerequisite: Music I and II and Sight Singing. Open to sophomores, juniors, and seniors.

XII. **Choral Conducting**—2 hours. Practice in conducting glee clubs, choruses, assembly singing, and community singing. Problems involved in conducting. Open to sophomores, juniors, and seniors.

XIII. **Harmony I**—3 hours. Major and minor scales developed on the keyboard and the staff; intervals; primary triads, inversions, and cadences; secondary triads and inversions; melodies and harmonizations; keyboard patterns. Open to freshmen and sophomores.

XIV. **Harmony II**—3 hours. Dominant seventh chords, inversions, resolutions; dominant ninth chords; supertonic and leading tone sevenths; modulation by means of common chords; analysis of hymns. Open to sophomores, juniors, and seniors.

XV. **Harmony III**—3 hours. Secondary seventh chords, altered chords, melodic ornamentations, advanced modulations, advanced analysis. Prerequisite: Harmony I. Open to sophomores, juniors, and seniors.

XVI. **Harmony IV**—3 hours. A continuation of Harmony III with emphasis upon analysis and keyboard transposition. Open to sophomores, juniors, and seniors.

XVII. **Harmony V**—3 hours. The writing and improvising of accompaniments. Use of various clefs. Open to juniors and seniors.

**XVIII. Music Form and Analysis**—3 hours. Analysis of harmonic material used by the masters. Prerequisite: Harmony I-IV. Open to juniors and seniors.

**XIX. Counterpoint I**—2 hours. Melodic progressions, clefs, two-part counterpoint in all species. Prerequisite: Harmony I-IV. Open to juniors and seniors.

**XX. Counterpoint II**—2 hours. A continuation of Counterpoint I. Three-part counterpoint in all species. Prerequisite: Harmony I-IV. Open to juniors and seniors.

**XXI. Counterpoint III**—2 hours. A continuation of Counterpoint II. Four-part counterpoint in all species. Florid counterpoint. Prerequisite: Harmony I-IV. Open to juniors and seniors.

**XXII. History of Music I**—2 hours. A survey of music among primitive peoples; early church music; troubadours and minnesingers; the invention of opera; music from Bach to Weber. Open to sophomores, juniors, and seniors.

**XXIII. History of Music II**—3 hours. The development of romanticism; program music; music from Mendelssohn to Richard Strauss. Open to sophomores, juniors, and seniors.

**XXIV. History of Music III**—2 hours. Modern music in Italy, France, Russia, Scandinavia, England, and America. Open to juniors and seniors.

**XXV. Music Appreciation**—3 hours. Credit only for a student whose major is music and for a student on the special curriculum leading to the degree of Bachelor of Science in Music. A study of the literature of vocal and instrumental music by means of the phonograph, the piano player, the voice, and musical instruments. Open to juniors and seniors.

**XXVI. Music Supervision**—2 hours. Open to juniors and seniors.

**XXVII. Applied Music I, \*Piano and Organ**—each 1 to 12 hours. For 1 hour of credit the student must take one or two lessons a week for a term. This must be accompanied by not less than five hours of practice a week.

**XXVIII. Applied Music II, \*\*Voice**—1 to 12 hours. For 1 hour of credit the student must take one or two lessons a week for a term. This must be accompanied by not less than five hours of practice a week.

**XXIX. Normal Piano Methods**—Drill credit. Materials and methods for individual and class piano instruction of all grades with special attention to class work for children. Demonstration of methods of presentation, performance, and drill. A course for advanced piano

\*In the second, third, and fourth years of work in piano or in organ a student on a special curriculum leading to the degree of Bachelor of Science in Music may take two lessons a week and receive 2 hours of credit in meeting the requirements for the degree of Bachelor of Science in Music. For a student on this curriculum the maximum amount of credit in piano or organ is 21 hours. The first, second, and third terms of work are open to freshmen, sophomores, and juniors; the fourth, fifth, and sixth terms to sophomores, juniors, and seniors; and the seventh to twelfth terms to juniors and seniors.

\*\*The first, second, and third terms of work are open to freshmen, sophomores, and juniors; the fourth, fifth, and sixth terms to sophomores, juniors, and seniors; and the seventh to twelfth terms to juniors and seniors.



students. Classes will not be organized for less than ten students. Two periods a week.

XXX. Piano Class Instruction A—Drill credit. This course is planned for group instruction of those who have had no previous instruction. Two periods a week.

XXXI. Piano Class Instruction B—Drill credit. This course is open to students who have had a small amount of previous instruction. One period a week.

## NATURAL SCIENCE

### 1. Biological Science

A major in biological science must include Animal Biology, Invertebrate Zoölogy or Vertebrate Zoölogy, Plant Biology, Non-flowering Plants or Plant Taxonomy, and at least 10 hours of elective work in biological science.

Ten hours of chemistry, though not included in the biological science major line, may be used in meeting the requirements of a major in biological science.

The work of a student whose major is biological science must include 10 hours of chemistry and 10 hours of physics. The required courses in biological science, chemistry, and physics afford preparation for teaching general science in high school.

A minor in biological science must include Animal Biology and Plant Biology.

Biological Science II-VI and VIII-XIV are courses in laboratory science.

I. Nature Study, General Science A—5 hours. Credit only on the two-year curricula and for a student whose major is nursery school and kindergarten education, primary education, or elementary education. Rocks, minerals, soils, insects, birds, and trees. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

II. Animal Biology—5 hours. Life processes and structure of animals. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

III. Invertebrate Zoölogy—5 hours. The anatomy and physiology of several type-forms in each division of invertebrate animals. Prerequisite: Animal Biology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

IV. Vertebrate Zoölogy—5 hours. The classes of vertebrates with particular reference to their origin, development, anatomy, and physiology. Prerequisite: Animal Biology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

V. Insects and Man—3 hours. Prerequisite: Animal Biology. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to juniors and seniors.

VI. Physiology—5 hours. The functioning of the different systems of organs of the human body; correlation of the physiology and anatomy of each organ; dissection and experimentation. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

VII. **Health Education**—3 hours. No credit for a student who has credit for Hygiene and Sanitation. Personal, community, and school hygiene. The aims and methods of health education. Open to freshmen and sophomores.

VIII. **Hygiene and Sanitation**—5 hours. No credit for a student who has credit for Health Education. Personal hygiene. Sanitation. School health problems: heating, lighting, ventilation, the spread of communicable diseases. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

IX. **Plant Biology**—5 hours. Life processes and structure of plants. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

X. **Non-flowering Plants**—5 hours. Plant groups illustrating the development of the plant kingdom. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

XI. **Plant Taxonomy**—5 hours. The identification, field recognition, and economic importance of seed plants of our local flora. Prerequisite: entrance credit in botany, or Plant Biology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

XII. **Plant Physiology**—5 hours. The physiological processes of plants with emphasis upon plant metabolism. Responses of plants to stimuli. Prerequisite: Plant Biology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

XIII. **Plant Ecology**—5 hours. Effects of environment upon plant growth and plant distribution. Application of ecology to crop production. Prerequisite: Plant Biology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

XIV. **Bacteriology**—5 hours. Microorganisms, their classification, morphology, and physiology; their relation to health, sanitation, and food preservation. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

XV. **Organic Evolution**—2 hours. Meaning, evidences, and factors of organic evolution; its significance in biology and in modern thought. Open to juniors and seniors.

XVI. **Heredity**—3 hours. The laws of heredity and their relation to plants, animals, and man. The significance of heredity to the human race. Open to juniors and seniors.

XVII. **The Teaching of the Biological Sciences**—3 hours. Prerequisite: 15 hours of biological science including botany and biology, and Methods and Measurements in the High School. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to juniors and seniors.

## 2. Earth Science

A major in earth science must include 30 hours of work selected from the following courses: Principles of Physiography, Principles of Geology, Climatology, Mineralogy, Elements of Geography I, Geography of North America, Geography of South America, Conservation



of Natural Resources, Astronomy, and Historical Geography of the United States.

Ten hours of work in chemistry, though not included in the earth science major line, may be used in meeting the requirements of a major in earth science.

Earth Science IV is a course in laboratory science.

**I. Principles of Physiography**—5 hours. The agencies at work in producing land forms; life as affected by physical environment; interpretation of topographic maps. Field trips. Open to freshmen and sophomores.

**II. Physiography of the United States**—5 hours. Prerequisite: Principles of Physiography or Principles of Geology. Open to sophomores, juniors, and seniors.

**III. Principles of Geology**—5 hours. The origin, history, and structure of the earth. Present processes and changes. Open to freshmen, sophomores, and juniors.

**IV. Mineralogy**—5 hours. Descriptive and determinative mineralogy. Prerequisite: 5 hours of inorganic chemistry. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

**V. Climatology**—5 hours. The composition and physics of the air; weather forecasting; map making; instruments used in gathering data. Open to juniors and seniors.

**VI. Astronomy**—5 hours. A course in descriptive astronomy. Uses of various astronomical instruments. Open to sophomores, juniors, and seniors.

**VII. Elements of Geography I**—5 hours. Man's adjustments to climate, surface, soil, water resources, mineral resources, and other natural features. Open to freshmen, sophomores, and juniors.

**VIII. Elements of Geography II**—5 hours. Subject matter organized as problems for the various grades; selection and use of textbooks and supplementary material; collection of illustrative material; field trips; maps and graphs; objective tests. Prerequisite: Elements of Geography I. Open to sophomores, juniors, and seniors.

**IX. Commercial and Industrial Geography**—5 hours. Credit only for a student whose major is commercial education or earth science and for a student on the special curriculum leading to the degree of Bachelor of Science in Commercial Education. The commodities of international trade; trade routes of the world; ocean transportation. Open to freshmen and sophomores.

**X. Geography of Europe**—5 hours. A regional study of the continent of Europe; the economic development of the various sections as related to the natural environment; present day problems and the bearing of natural resources upon their solution. Open to sophomores, juniors, and seniors.

**XI. Geography of North America**—5 hours. The major geographic regions of the continent; intensive study of the regions of the United States; the relation between economic activities and natural environment. Open to sophomores, juniors, and seniors.

**XII. Geography of South America**—5 hours. Trade opportunities in South America; economic activities of the major geographic regions; possibilities for future development. Prerequisite: Elements of Geography I, Geography of North America, or Geography of Europe. Open to juniors and seniors.

**XIII. Historical Geography of the United States**—5 hours. Correlation of geography and American history. Prerequisite: entrance credit or college credit in American history. Open to juniors and seniors.

**XIV. Conservation of Natural Resources**—5 hours. The natural resources of the United States, their past exploitation and future conservation. Open to juniors and seniors.

### 3. Agriculture

A major in agriculture must include Dairy Cattle, Beef Cattle and Sheep, Swine, Farm Poultry, Farm Management, Marketing Agricultural Products, at least 14 hours of additional work in agriculture, Principles of Physiography, and Climatology.

The work of a student whose major is agriculture must include American Government and Principles of Economics I.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Agriculture, see page 44.

**I. Soils**—3 hours. Management of soils for maximum production. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**II. Soil Fertility**—2 hours. Open to sophomores, juniors, and seniors.

**III. Farm Crops I**—5 hours. The important field crops of Iowa. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

**IV. Farm Crops II**—5 hours. Crop production and plant breeding. Prerequisite: Farm Crops I. Open to juniors and seniors.

**V. Horticulture**—2 hours. Management of orchard, bush, and small fruits. Harvesting and marketing. Recitation, 1 period a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**VI. Dairy Cattle**—3 hours. Types and breeds. Judging and marketing. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**VII. Beef Cattle and Sheep**—3 hours. Types, breeds, grades. Judging and marketing. Recitations, 2 periods a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**VIII. Horses**—2 hours. Types, breeds, classes, grades. Judging. Recitation, 1 period a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**IX. Swine**—2 hours. Types, breeds, market classes, grades. Judging and marketing. Recitation, 1 period a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

**X. Farm Poultry**—2 hours. Breeds and varieties. Management. Recitation, 1 period a week; laboratory work, 2 periods a week. Open to sophomores, juniors, and seniors.



XI. **Feeds and Feeding**—3 hours. Balanced rations. Methods of feeding farm animals. Open to juniors and seniors.

XII. **Principles of Breeding**—2 hours. Laws of breeding and care of breeding stock. Open to juniors and seniors.

XIII. **Farm Management**—3 hours. Open to sophomores, juniors, and seniors.

XIV. **Marketing Agricultural Products**—3 hours. Grain, live-stock, and produce marketing, with emphasis upon coöperative methods. Open to sophomores, juniors, and seniors.

XV. **Methods in Agriculture**—5 hours. Prerequisite: 10 hours of agriculture and Methods and Measurements in the High School. Open to juniors and seniors.

### ORCHESTRAL MUSIC

A major in orchestral and band music must include Orchestral Instruments I-VI, Orchestra Conducting, Orchestration I, Band Directing, Band Instrumentation, Instrumental Dictation, Music I, Harmony I-IV, History of Music I and II, Counterpoint I, II, III, \*3 hours of Piano, \*\*12 hours of Applied Music III-V, and Supervisors Violin A, B, and C.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music, see page 48.

I. †**Supervisors Violin A**—Drill credit. Elementary class work in violin. Two periods a week.

II. †**Supervisors Violin B**—Drill credit. Intermediate class work in violin. Two periods a week. Prerequisite: Supervisors Violin A or equivalent preparation.

III. †**Supervisors Violin C**—Drill credit. Advanced class work in violin. Two periods a week. Prerequisite: Supervisors Violin B, or equivalent preparation.

IV. **Instrumental Dictation**—3 hours. Staffs and clefs; rhythms; interval drills; notation through dictation and sight reading by letter. Open to freshmen and sophomores.

V. **Orchestral Instruments I-VI** (I. Cello, II. Bass, III. Clarinet, IV. Trumpet, French Horn, Trombone, V. Flute, Saxophone, Percussion, VI. Oboe, Bassoon)—each 1 hour. Study of instruments in class; selection and care of instruments; methods of instruction. Two periods a week. Prerequisite: 3 hours of credit in applied music other than voice. Open to sophomores, juniors, and seniors.

VI. **Orchestra Conducting**—3 hours. Problems in conducting school orchestras. Baton technique, score reading, practice conducting, sur-

\*With the consent of the head of the Department of Orchestral Music, 3 hours of Organ or of other courses in the departments of Music or Orchestral Music may be substituted for Piano.

\*\*With the consent of the head of the Department of Orchestral Music four years of credit (12 term hours) in Piano or Organ or both may be substituted for Applied Music III, IV, or V in meeting this requirement.

†Open only to a student whose major is music or orchestral and band music and to a student on the special curriculum leading to the degree of Bachelor of Science in Music or on the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music.

vey of materials. Prerequisite: 3 hours of credit in applied music other than voice. Open to juniors and seniors.

VII. **Band Directing**—2 hours. Development of school bands; marching and drill maneuvers; technique of band directing. Prerequisite: 3 hours of credit in applied music other than voice. Open to juniors and seniors.

VIII. **Orchestration I**—3 hours. Arrangement and scoring adapted to the needs of school orchestras. Prerequisite: Harmony I, II, III, and 3 hours of credit in applied music other than voice. Open to juniors and seniors.

IX. **Orchestration II**—3 hours. Study, arrangement, and preparation of orchestra scores. Prerequisite: Orchestration I and Counterpoint I, II, III. Open to juniors and seniors.

X. **Band Instrumentation**—2 hours. Arrangement and preparation of band scores. Prerequisite: Harmony I-IV and 3 hours of credit in applied music other than voice. Open to juniors and seniors.

XI. **Canon and Fugue I, II, III**—each 1 hour. The various forms of canon and their use in composition. The fugue and original work. Prerequisite: Harmony I-IV and Counterpoint I, II, III. Open to juniors and seniors.

XII. **Composition I, II, III**—each 1 hour. Elementary composition in homophonic forms. Prerequisite: Harmony I-IV. Open to juniors and seniors.

XIII. **Ensemble I, II, III**—each 1 hour. Credit only on the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music. Prerequisite: one year of drill work in ensemble or equivalent preparation. Open to juniors and seniors.

XIV. **Senior Recital**—1 hour. Credit only on the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music. A recital in one of the instruments designated in Applied Music III, IV, or V. Open to seniors.

XV. **\*Applied Music III, Violin, Viola, Cello, Bass, Harp**—each 1 to 12 hours. For 1 hour of credit the student must take one or two lessons a week for a term. This must be accompanied by not less than five hours of practice a week.

XVI. **\*Applied Music IV, Wood-Wind and Brass Instruments**—each 1 to 12 hours. For 1 hour of credit the student must take one or two lessons a week for a term. This must be accompanied by not less than five hours of practice a week.

XVII. **\*Applied Music V, Percussion Instruments**—each 1 to 12 hours. For 1 hour of credit the student must take one or two lessons a week for a term. This must be accompanied by not less than five hours of practice a week.

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\*In the second, third, and fourth years of work in one instrument of Applied Music III, IV, and V a student on the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music must take two lessons a week and may receive 2 hours of credit for the work of the term. This credit may be used in meeting the requirements for the degree of Bachelor of Science in Orchestral and Band Music. For a student on this curriculum the maximum amount of credit in one instrument is 21 hours. The first three terms of work are open to freshmen, sophomores, and juniors, and the fourth to twelfth terms to sophomores, juniors, and seniors.



### Note

String ensemble for the study and performance of sonatas, trios, quartettes, and quintettes is provided for students in violin, viola, cello, bass, harp, and piano. Wood-wind and brass ensemble for work of a similar nature is provided for students in wood-wind and brass instruments.

## PHYSICAL EDUCATION FOR MEN

A major in physical education for men must include History and Principles of Physical Education, Anatomy, Athletic Training and Conditioning, Football—5 or 6 hours, Basketball—5 or 6 hours, Baseball—2 or 3 hours, Track and Field—2 or 3 hours, Gymnastics, Swimming, Activities for Schools, Organization and Administration of Physical Education, and Methods in Physical Education.

The work of a student whose major is physical education for men must include Animal Biology, Physiology, and Hygiene and Sanitation.

Physiology and Hygiene and Sanitation, though not included in a major in physical education for men, may be used in meeting the requirements of this major.

A minor in physical education for men must include Football, Baseball, Basketball, Track and Field, Activities for Schools, Gymnastics, Swimming, Organization and Administration of Physical Education, and electives to make a total of at least 20 hours.

The required work in teaching should include 5 hours of teaching other than the teaching of physical education.

During one of the first four terms in residence men students who have not passed a swimming test given by the department must complete a course in swimming.

Credit for Football I and II, Basketball I and II, Track and Field I, or Baseball I may also be recorded as credit for Physical Education I.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Physical Education, see page 49.

### I. Physical Education

The work in Physical Education I required of all men students is selected from the following courses: baseball, basketball, boxing, cross-country, diamondball, floor and mat work, games, golf, gymnastics, handball, modified activities, soccer, speedball, beginning swimming, advanced swimming, tennis, touch football, track and field, volleyball, and wrestling.

II. History and Principles of Physical Education—3 hours. Open to juniors and seniors.

III. Anatomy—5 hours. Gross anatomy of the osseous, muscular, and nervous systems and of the vital organs. Open to sophomores, juniors, and seniors.

IV. Physiology of Exercise—3 hours. The effects of exercise upon the various organic functions of the body. A comparison of strength, speed, and endurance exercises. Prerequisite: Anatomy and Physiology. Open to juniors and seniors.

V. Athletic Training and Conditioning—2 hours. Diet; treatment of injuries; massage and bandaging; lectures, demonstrations, and practice. Prerequisite: Anatomy and Physiology. Open to sophomores, juniors, and seniors.

VI. **Football I**—3 hours. Theory and practice, 10 periods a week. Open to sophomores, juniors, and seniors.

VII. **Football II**—3 hours. Prerequisite: Football I. Theory and practice, 10 periods a week. Open to juniors and seniors.

VIII. **Football III**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Open to juniors and seniors.

IX. **Basketball I**—3 hours. Theory and practice, 10 periods a week. Open to sophomores, juniors, and seniors.

X. **Basketball II**—3 hours. Prerequisite: Basketball I. Theory and practice, 10 periods a week. Open to juniors and seniors.

XI. **Basketball III**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Open to juniors and seniors. Summer term.

XII. **Baseball I**—3 hours. Theory and practice, 10 periods a week. Open to sophomores, juniors, and seniors.

XIII. **Baseball II**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Open to juniors and seniors. Summer term.

XIV. **Track and Field I**—3 hours. Theory and practice, 10 periods a week. Open to sophomores, juniors, and seniors.

XV. **Track and Field II**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Open to juniors and seniors. Summer term.

XVI. **Mass Athletics**—2 hours. Theory and practice, 5 periods a week. Open to juniors and seniors.

XVII. **Gymnastics**—2 hours. Gymnastic marching. Elementary exercises on bars, horse, mats, and other apparatus. Theory and practice, 5 periods a week. Open to juniors and seniors.

XVIII. **Wrestling**—2 hours. Theory and practice, 5 periods a week. Open to juniors and seniors.

XIX. **Swimming**—2 hours. Theory and practice, 5 periods a week. Open to juniors and seniors.

XX. **Activities for Schools**—2 hours. Activities suitable for the growing child at different age levels. Theory and practice, 5 periods a week. Open to juniors and seniors.

XXI. **Recreational Activities**—2 hours. City, county, state, and national organizations promoting recreational activities. Playground equipment and programs. Theory and practice, 5 periods a week. Open to juniors and seniors.

XXII. **Organization and Administration of Physical Education**—3 hours. Intramural athletics, efficiency tests, and playground work; interscholastic athletics, games, track meets, tournaments; business administration, sportsmanship, and ethics. Open to juniors and seniors.

XXIII. **Methods in Physical Education**—5 hours. Theory and practice, 10 periods a week. Open to juniors and seniors.



**PHYSICAL EDUCATION FOR WOMEN**

A major in physical education for women must include Principles of Physical Education; Anatomy; Physical Diagnosis; First Aid to the Injured; Therapeutic Exercises and Massage; Play as Education; School Health Problems; Kinesiology; The Dance in Education; Administration of Physical Education; The Teaching of Basketball and Swimming; The Teaching of Hockey, Soccer, and Tennis; and The Teaching of Baseball and of Track and Field.

The work of a student whose major is physical education for women must include Animal Biology; Physiology; Mechanics, Light, and Electricity; Elementary Inorganic and Organic Chemistry; Physiological Chemistry; four courses in Physical Education I each term unless the student is released by the adviser from work in excess of the general requirement in Physical Education I. The student must pass a test in the playing of piano accompaniments for rhythmic work in physical education.

A minor in physical education for women must include Anatomy; Principles of Physical Education or Play as Education; 5 hours of work selected from Courses XIII, XVIII, XIX, and XX; and at least 5 hours of elective work in physical education for women.

A student must register for the first three terms of work in Physical Education I in classes which meet three periods a week unless permitted by the department to register for work in a class which meets only two periods a week.

With the consent of the adviser a student may register for four courses in Physical Education I each term provided that the total number of periods required for this work does not exceed eight periods a week.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Physical Education, see page 49.

**I. Physical Education**

The work in Physical Education I required of all women students is selected from the following courses:

**Team Sports:** beginning baseball, advanced baseball, beginning basketball, advanced basketball, beginning hockey, advanced hockey, beginning volleyball, advanced volleyball, beginning soccer, advanced soccer, speedball, fieldball, lacrosse, cricket and badminton, and simple team games.

**Individual Sports:** handball, beginning archery, advanced archery, archery golf, indoor archery, track and field, beginning swimming, first intermediate swimming, second intermediate swimming, advanced swimming, life saving, golf, beginning tennis, intermediate tennis, advanced tennis, canoeing, fencing, and horseback riding.

**Rhythmic Activities:** first dancing, second dancing, third dancing, fourth dancing, fifth dancing, first folk dancing, second folk dancing, third folk dancing, advanced folk dancing, national dancing, beginning social dancing, advanced social dancing, beginning clogging, advanced clogging, and rhythmic form and analysis.

**Unclassified Activities:** games and athletics, handball and speedball, stunts and contests, formal gymnastics and work with apparatus, Danish gymnastics, the technique of gymnastics, health class activities, games, and winter sports.

**Physical Education for Special Groups:** physical education for rural schools, rhythmic education for young children, physical education for

primary grades, physical education for intermediate grades, and fundamentals of exercise.

II. **Principles of Physical Education**—5 hours. Objectives, program, and methods of physical education. This course must be accompanied by *The Technique of Gymnastics*. Open to sophomores, juniors, and seniors.

III. **Anatomy**—5 hours. Gross anatomy of the osseous, muscular, and nervous systems and of the vital organs. Open to sophomores, juniors, and seniors.

IV. **Physical Growth and Health Care**—3 hours. No credit for a student whose major is physical education for women or for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education. The physical growth of children. Sleep, exercise, clothing, and first aid. Open to freshmen and sophomores.

V. **\*Physiology of Exercise**—3 hours. The effects of exercise upon the various organic functions of the body. A comparison of strength, speed, and endurance exercises. Prerequisite: *Anatomy and Physiology*. Open to juniors and seniors.

VI. **Physical Diagnosis**—3 hours. The technique of physical examinations. Symptoms of the diseases of school children. Control of contagion. Practice in auscultation and blood-pressure reading. Prerequisite: *Anatomy and Physiology*. Open to juniors and seniors.

VII. **First Aid to the Injured**—2 hours. Students may prepare themselves in this course for the examination for a Red Cross first-aid certificate. Open to freshmen, sophomores, and juniors.

VIII. **Therapeutic Exercises and Massage**—3 hours. Prerequisite: *Anatomy, Kinesiology, and Physiology*. Open to juniors and seniors.

IX. **School Health Problems**—5 hours. No credit for a student who has credit for *Hygiene and Sanitation* or *Health Education*. Credit only for a student whose major is physical education for women and for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education. Physical examinations; the hygiene of environment; health needs of the individual child; evaluation of the literature and devices of health instruction; and similar problems of the school and home. Prerequisite: *Anatomy and Physiology*. Open to juniors and seniors.

X. **Kinesiology**—3 hours. Body mechanics in relation to physical development and efficiency. Prerequisite: *Anatomy*. Open to sophomores, juniors, and seniors.

XI. **\*Play as Education**—5 hours. Adaptation of play to age groups; daily and yearly programs and programs for special days; playground apparatus and the playground site. This course must be accompanied by *Games*. Open to juniors and seniors.

XII. **Play and Playground**—3 hours. No credit for a student whose major is physical education for women or for a woman student on the special curriculum leading to the degree of Bachelor of Science in

\*Credit only for a student whose major or minor is physical education for women and for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education.



Physical Education. The play needs of children at the various age levels; evaluation of play materials; daily and yearly programs for a playground; playground apparatus. Open to freshmen and sophomores.

XIII. **The Dance in Education**—3 hours. The theory of rhythm; dancing as an art; the educational value of dancing; the planning of dance projects. This course must be accompanied by Rhythmic Form and Analysis. Open to juniors and seniors.

XIV. **Club Craft and Leadership**—2 hours. The work of Camp Fire Girls, Girl Scouts, Girl Reserves, and other similar clubs and their correlation with the physical education program of the public school. Open to sophomores, juniors, and seniors.

XV. **Tests and Measurements in Physical Education**—2 hours. Prerequisite: Statistical Methods in Education. Open to juniors and seniors.

XVI. **Administration of Physical Education**—5 hours. The program and budget of physical education in the public schools and in the Y.W.C.A.; the equipment and care of gymnasium and swimming pool; supervision; community relationships. Open to juniors and seniors.

XVII. **The Teaching of Basketball**—1 hour. No credit for a student whose major is physical education for women or for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education. Recitation, 1 period a week; laboratory work, 2 periods a week. Open to sophomores, juniors, and seniors.

XVIII. **\*The Teaching of Basketball and Swimming**—3 hours. This course must be accompanied by Advanced Basketball. Open to juniors and seniors.

XIX. **\*The Teaching of Hockey, Soccer, and Tennis**—2 hours. This course must be accompanied by Advanced Hockey. Open to juniors and seniors.

XX. **\*The Teaching of Baseball and of Track and Field**—3 hours. This course must be accompanied by Advanced Baseball and Track and Field. Open to juniors and seniors.

## PHYSICS AND CHEMISTRY

### 1. Physics

A major in physics must include 30 hours of work from Physics II-XIV.

Ten hours of chemistry, though not included in the physics major line, may be used in meeting the requirements of a major in physics.

The work of a student whose major is physics must include 10 hours of biological science and 10 hours of chemistry. The required courses in biological science, chemistry, and physics afford preparation for teaching general science in high school.

Physics I-XII, XIV, XVI, and XVIII are courses in laboratory science. Physics XVII is a course in laboratory science for a student whose

\*Credit only for a student whose major or minor is physical education for women and for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education.

major is music or orchestral and band music and for a student on the special curriculum leading to the degree of Bachelor of Science in Music, or on the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music.

**I. General Physical Science**—5 hours. No credit for a student whose major is biological science, chemistry, or physics. Credit only for a student on a degree curriculum who does not have college credit in physics or chemistry. Fundamental principles and important applications of the physical sciences. A non-mathematical survey course. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

**II. General Physics I**—5 hours. No credit for a student who presents entrance credit for 1 unit of physics. Mechanics, sound, and light. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

**III. General Physics II**—5 hours. No credit for a student who presents entrance credit for 1 unit of physics. A continuation of General Physics I with a study of heat, electricity, and magnetism. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

**IV. Mechanics**—5 hours. No credit for a student who has credit for General Physics I. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: high-school physics or equivalent preparation. Open to freshmen, sophomores, and juniors.

**V. Advanced Mechanics**—3 hours. Each experimental problem is preceded by a brief discussion of the principles involved. Laboratory work, 6 periods a week. Prerequisite: Mechanics or equivalent preparation. Open to sophomores, juniors, and seniors.

**VI. Sound and Light**—5 hours. The theory of light presented from the point of view of geometrical and physical optics. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: General Physics I and II, or Mechanics, or equivalent preparation. Open to sophomores, juniors, and seniors.

**VII. Advanced Course in Light**—3 hours. Each experimental problem is preceded by a discussion of the principles involved. Laboratory work, 6 periods a week. Prerequisite: Sound and Light or equivalent preparation. Open to sophomores, juniors, and seniors.

**VIII. Heat, Electricity, and Magnetism**—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: General Physics I and II, or Mechanics, or equivalent preparation. Open to sophomores, juniors, and seniors.

**IX. Advanced Course in Electricity and Magnetism**—5 hours. Use of the magnetometer and the quadrant electrometer; measurements of the coefficients of induction; experiments in radioactivity. Laboratory work, 10 periods a week. Prerequisite: Heat, Electricity, and Magnetism or equivalent preparation. Open to juniors and seniors.

**X. Alternating Currents**—5 hours. This course includes a study of industrial alternating currents and high frequency alternating currents used in radio transmission and reception. Recitations, 3 periods



a week; laboratory work, 4 periods a week. Prerequisite: Mechanics; and Heat, Electricity, and Magnetism. Open to juniors and seniors.

XI. **Modern Physics I**—5 hours. An introductory course in radioactive and electronic phenomena. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Mechanics; and Heat, Electricity, and Magnetism. Open to juniors and seniors.

XII. **Modern Physics II**—5 hours. A continuation of Modern Physics I. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to juniors and seniors.

XIII. **The History of Physics**—2 hours. Prerequisite: 10 hours of college physics. Open to juniors and seniors.

XIV. **The Teaching of Physics**—3 hours. This course has been approved as a course in education (Education XXXIIIi) for a student whose major is physics. Prerequisite: 10 hours of college physics and Methods and Measurements in the High School. Recitation, 1 period a week; laboratory work, 4 periods a week. Open to juniors and seniors.

### Special Courses in Physics

XV. **Everyday Physical Science, General Science B**—5 hours. No credit for a student who has credit for General Physical Science. Credit only on the two-year curricula and for a student whose major is nursery school and kindergarten education, primary education, or elementary education. Phenomena of inanimate nature in the student's environment. The more common inventions in the home and elsewhere. Recitations, 4 periods a week; laboratory work, 2 periods a week. Open to freshmen and sophomores.

XVI. **Household Physics**—3 hours. Credit only for a student whose major is home economics and for a student on the special curricula leading to the degree of Bachelor of Science in Home Economics and to the degree of Bachelor of Science in Opportunity Room Education. Recitation, 2 periods a week; laboratory work, 2 periods a week. Open to sophomores, juniors, and seniors.

XVII. **Sound and Music**—5 hours. Credit only for a student whose major is music or orchestral and band music and for a student on the special curricula leading to the degree of Bachelor of Science in Music and to the degree of Bachelor of Science in Orchestral and Band Music. An elementary study of the physics of sound with laboratory exercises. Sound as music. Recitations, 4 periods a week; laboratory work, 2 periods a week. Open to freshmen, sophomores, and juniors.

XVIII. **Mechanics, Light, and Electricity**—5 hours. Credit only for a student whose major is physical education for women and for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

## 2. Chemistry

A major in chemistry must include 30 hours of work from Chemistry II-XX.

Ten hours of physics, though not included in the chemistry major line, may be used in meeting the requirements of a major in chemistry.

The work of a student whose major is chemistry must include 10 hours of biological science and 10 hours of physics. The required courses in biological science, chemistry, and physics afford preparation for teaching general science in high school.

Chemistry I-XV and XVII-XXIV are courses in laboratory science.

Students beginning chemistry and expecting to take more than one term of chemistry should begin with Inorganic Chemistry I.

**I. General Chemistry**—5 hours. No credit for a student who presents entrance credit for 1 unit of chemistry or for a student whose major is biological science, chemistry, or physics. An orientation course presenting the fundamental concepts of the science. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

**II. \*Inorganic Chemistry I**—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

**III. \*Inorganic Chemistry II**—5 hours. A continuation of Inorganic Chemistry I. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

**IV. Chemistry of Nonmetals**—5 hours. No credit for a student who has credit for Inorganic Chemistry I or II or for Inorganic Chemistry A or B. A condensed course for students who present entrance credit for 1 unit of chemistry or who have credit for General Chemistry. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

**V. Chemistry of Metals and Qualitative Analysis**—5 hours. An introduction to the study of the properties of the metallic elements. Recitations, 2 periods a week; laboratory work, 6 periods a week. Prerequisite: Inorganic Chemistry II or Inorganic Chemistry B or Chemistry of Nonmetals. Open to freshmen, sophomores, and juniors.

**VI. Organic Chemistry**—5 hours. The essentials of organic chemistry. Prerequisite: Inorganic Chemistry I and II or Inorganic Chemistry A and B. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors, and to freshmen who have credit for Chemistry of Nonmetals.

**VII. Organic Preparations I**—3 hours. Synthesis of typical compounds representative of organic reactions. Prerequisite: Organic Chemistry. Laboratory work, 6 periods a week. Open to sophomores, juniors, and seniors.

**VIII. Organic Preparations II**—2 hours. A continuation of Organic Preparations I. Laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

**IX. Quantitative Analysis I**—3 hours. The elementary principles of gravimetric analysis. Prerequisite: Chemistry of Metals and Qualitative Analysis. Laboratory work, 6 periods a week. Open to sophomores, juniors, and seniors.

\*No credit for a student who presents entrance credit for 1 unit of chemistry or who has credit for General Chemistry.



X. **Quantitative Analysis II**—2 hours. Quantitative Analysis I must precede or accompany this course. Laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

XI. **Quantitative Analysis III**—3 hours. An introduction to volumetric analysis. Laboratory work, 6 periods a week. Prerequisite: Inorganic Chemistry II or Inorganic Chemistry B or Chemistry of Nonmetals. Open to sophomores, juniors, and seniors.

XII. **Quantitative Analysis IV**—2 hours. Quantitative Analysis III must precede or accompany this course. Laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

XIII. **Water Analysis I**—2 hours. Analysis of drinking water from the point of view of the sanitary chemist. Prerequisite: Chemistry of Metals and Qualitative Analysis. Laboratory work, 4 periods a week. Open to juniors and seniors.

XIV. **Water Analysis II**—3 hours. Determination of the mineral content of waters. The evaluation of softening processes. Prerequisite: Chemistry of Metals and Qualitative Analysis. Laboratory work, 6 periods a week. Open to juniors and seniors.

XV. **Special Laboratory Course**—5 hours. Quantitative experimental work. For students of exceptional ability this work may be in the nature of a research problem. Laboratory work, 10 periods a week. Open to juniors and seniors.

XVI. **Physical Chemistry**—3 hours. Prerequisite: Chemistry of Metals and Qualitative Analysis. Open to juniors and seniors.

XVII. **Chemistry of Foods and Nutrition**—3 hours. The essentials of physiological chemistry. The chemical composition of foods. Prerequisite: Organic Chemistry. Recitation, 1 period a week; laboratory work, 4 periods a week. Open to sophomores, juniors, and seniors.

XVIII. **Advanced Chemistry of Nutrition**—2 hours. Recitation, 1 period a week; laboratory work, 2 periods a week. Prerequisite: Chemistry of Foods and Nutrition or Physiological Chemistry. Open to juniors and seniors.

XIX. **Food Analysis**—5 hours. Proximate quantitative analysis of the common foods. Recitations, 2 periods a week; laboratory work, 6 periods a week. Prerequisite: Organic Chemistry. Open to juniors and seniors.

XX. **The Teaching of Chemistry**—3 hours. This course has been approved as a course in education (Education XXXIIIj) for a student whose major is chemistry. Prerequisite: 10 hours of chemistry and Methods and Measurements in the High School. Recitation, 1 period a week; laboratory work, 4 periods a week. Open to juniors and seniors.

#### Special Courses in Chemistry

XXI. **\*Elementary Inorganic and Organic Chemistry**—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen and sophomores.

XXII. **\*Physiological Chemistry**—5 hours. The chemistry of digestion, metabolism, muscular action, and other physiological pro-

\*Credit only for a student whose major is physical education for women and for a woman student on the special curriculum leading to the degree of Bachelor of Science in Physical Education.

cesses. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Elementary Inorganic and Organic Chemistry. Open to freshmen and sophomores.

XXIII. \*Inorganic Chemistry A—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

XXIV. \*Inorganic Chemistry B—5 hours. A continuation of Inorganic Chemistry A. Recitations, 3 periods a week; laboratory work, 4 periods a week. Open to freshmen, sophomores, and juniors.

## RELIGIOUS EDUCATION

I. Origin of the Bible—3 hours. Traditions as sources of sacred books; the collection of sacred books into one book; the various translations of the Bible. Open to freshmen, sophomores, and juniors.

II. Hebrew Religion to 586 B.C.—3 hours. Open to freshmen, sophomores, and juniors.

III. Hebrew Religion after 586 B.C.—3 hours. Open to sophomores, juniors, and seniors.

IV. The Hebrew Prophets—3 hours. Open to sophomores, juniors, and seniors.

V. Synoptic Life of Jesus—3 hours. The life and teachings of Jesus as portrayed in the synoptic gospels in contrast with the current ideas of his day. Open to freshmen, sophomores, and juniors.

VI. The Life and Letters of Paul—2 hours. The rise of the apostle and his extension of Christianity to the Gentiles as described in Acts. A study of parts of his thirteen letters in their historical setting. Open to freshmen, sophomores, and juniors.

VII. The Gospel and Writings of John—2 hours. An interpretation of the last written book of the Bible in the light of the confusion of religious life in Asia Minor. The Gospel and the Epistles of John. Open to juniors and seniors.

VIII. Origin and Growth of the Christian Religion—3 hours. Open to juniors and seniors.

IX. The Bible as Literature—3 hours. Open to sophomores, juniors, and seniors.

X. Bible Ethics—3 hours. The development of ethical standards from the legalistic to the voluntary motivations of life. The ethical contributions of the gospels. Open to sophomores, juniors, and seniors.

XI. Religions of the World—2 hours. A survey of the great world religions other than Christianity. Open to juniors and seniors.

XII. Methods of Religious Education—2 hours. Methods, materials, and curricula for vacation schools, church schools, and public schools. Open to sophomores, juniors, and seniors.

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\*No credit for a student who presents entrance credit for 1 unit of chemistry or who has credit for General Chemistry or Inorganic Chemistry I or II. Credit only for a student whose major is home economics and for a student on the special curriculum leading to the degree of Bachelor of Science in Home Economics.



## ROMANCE LANGUAGES

## 1. French

Ten hours of work from Spanish IV-X, though not included in the French major line, may be used in meeting the requirements of a major in French.

Students who have had two years of French in high school may take French IV-VIII in the freshman year and French IX-XVI in the sophomore year.

I. \*French I—5 hours. A course for beginners. Open to freshmen, sophomores, and juniors.

II. \*French II—5 hours. A continuation of French I. Open to freshmen, sophomores, and juniors.

III. French III—5 hours. Reading of simple plays and stories. Prerequisite: one year of high-school French or equivalent preparation. Open to freshmen, sophomores, and juniors.

IVa. Modern French Prose—3 hours. Selections from fiction and drama. Prerequisite: two years of high-school French or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

IVb. Short French Plays—2 hours. Reading of French plays suitable for dramatic production in French classes and clubs. Prerequisite: two years of high-school French or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

Va. French Short Stories—3 hours. Prerequisite: French IVa or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

Vb. French Comedies—2 hours. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIa. Rostand's *Cyrano de Bergerac*—3 hours. \*\*Open to sophomores, juniors, and seniors.

VIb. French Life—2 hours. A study of various phases of French life. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIIa. French Novel of the Romantic Period—3 hours. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIIb. French Drama of the Romantic Period—2 hours. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIIIa. French Novel and Short Story of the Realistic Period—3 hours. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

VIIIb. French Drama of the Realistic Period—2 hours. Prerequisite: French IVab or equivalent preparation. \*\*Open to sophomores, juniors, and seniors.

\*French III must be completed before credit for French I or II may be used in meeting the requirements for graduation.

\*\*Open also to freshmen who have had two years of high-school French or equivalent preparation.

**IXa. Contemporary French Drama**—3 hours. Lectures, with reading of Rostand's *Chantecler*. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**IXb. Contemporary French Novel and Short Story**—2 hours. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**X. Composition and Conversation**—2 hours. Prerequisite: French IVab or equivalent preparation. Open to sophomores, juniors, and seniors.

**XI. The Plays of Corneille and Molière**—3 hours. Lectures on the formation and development of the classical formula. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**XII. Racine and La Fontaine**—3 hours. A study of the tragedies of Racine and the fables of La Fontaine. Lectures on the classical period. Open to juniors and seniors.

**XIII. French Literature of the 18th Century**—3 hours. The continuation of classicism; the philosophical writers; Rousseau and the beginnings of romanticism. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**XIV. Victor Hugo**—2 hours. The prose and poetry of Victor Hugo. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**XV. Edmond Rostand**—2 hours. The lyric and dramatic poetry of Edmond Rostand. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**XVI. Pierre Loti**—2 hours. The novels of Pierre Loti. Open to juniors and seniors.

**XVII. History of French Literature**—3 hours. Readings, reports, and lectures. Prerequisite: French IVab or equivalent preparation. Open to juniors and seniors.

**XVIII. The Teaching of French**—2 hours. Prerequisite: French VIab or equivalent preparation and Methods and Measurements in the High School. Open to juniors and seniors.

## 2. Spanish

Ten hours of work from French IV-XVII, though not included in the Spanish major line, may be counted toward a major in Spanish. Students who have had two years of Spanish in high school may take Spanish IV-VI in the freshman year and Spanish VII-IX in the sophomore year.

**I. \*Spanish I**—5 hours. A course for beginners. Open to freshmen, sophomores, and juniors.

**II. \*Spanish II**—5 hours. A continuation of Spanish I. Open to freshmen, sophomores, and juniors.

\*Spanish III or equivalent preparation must be completed before credit for Spanish I or II may be used in meeting the requirements for graduation.



III. **Spanish III**—5 hours. Reading of easy prose. Emphasis on understanding spoken and written Spanish. Prerequisite: one year of high-school Spanish or equivalent preparation. Open to freshmen, sophomores, and juniors.

IVa. **Spanish Prose**—3 hours. Selections from fiction and drama of the nineteenth century. Prerequisite: two years of high-school Spanish or equivalent preparation. \*Open to sophomores, juniors, and seniors.

IVb. **Spanish Short Story**—2 hours. Prerequisite: two years of high-school Spanish or equivalent preparation. \*Open to sophomores, juniors, and seniors.

Va. **Modern Spanish Novel**—3 hours. Prerequisite: Spanish IVab or equivalent preparation. \*Open to sophomores, juniors, and seniors.

Vb. **Spanish and Spanish-American Life**—2 hours. Lectures on the life and customs of the Spanish people and their contribution to civilization. Prerequisite: Spanish IVab or equivalent preparation. \*Open to sophomores, juniors, and seniors.

VIa. **Contemporary Spanish Drama**—3 hours. Plays of Benavente, Martinez-Sierra, and Quintero. Prerequisite Spanish IVab or equivalent preparation. \*Open to sophomores, juniors, and seniors.

VIb. **Composition and Conversation**—2 hours. Prerequisite: Spanish IVab or equivalent preparation. \*Open to sophomores, juniors, and seniors.

VIIa. **Don Quixote**—3 hours. The life of Cervantes. Selected chapters of the Don Quixote with reports on additional reading. Prerequisite: Spanish IVab or equivalent preparation. Open to juniors and seniors.

VIIb. **History of Spanish Literature**—2 hours. General survey course with emphasis upon important literary movements and writers. Prerequisite: Spanish IVab or equivalent preparation. Open to juniors and seniors.

VIIIa. **Spanish Classical Drama**—3 hours. A study of Lope de Vega and Tirso de Molina. Prerequisite: Spanish IVab or equivalent preparation. Open to juniors and seniors.

VIIIb. **Calderon**—2 hours. Prerequisite: Spanish IVab or equivalent preparation. Open to juniors and seniors.

IXa. **Galdos**—3 hours. The novels and plays of Galdos. Prerequisite: Spanish IVab or equivalent preparation. Open to sophomores, juniors, and seniors.

IXb. **Spanish-American Literature**—3 hours. General survey course, designed to give an idea of the progress of letters in the various countries of Spanish America. Prerequisite: Spanish IVab or equivalent preparation. Open to juniors and seniors.

X. **The Teaching of Spanish**—2 hours. Prerequisite: Spanish VIab or equivalent preparation and Methods and Measurements in the High School. Open to juniors and seniors.

\*Open also to freshmen who have had two years of high-school Spanish or equivalent preparation.

## SOCIAL SCIENCE

## 1. History

A major in history must include History IV, X, XI; 20 hours of additional work in history 15 hours of which must be selected from History I, II, III, V, VI, VII, VIII; American Government; and Principles of Economics I.

The work of a student whose major is history must include General Sociology or 5 hours of additional work selected from courses in economics and sociology, and 5 hours of additional work in government.

A minor in history should include 20 hours of work from History I, III, IV, X, and XI.

I. **Greek and Roman Civilization**—5 hours. The contribution of Greek and Roman civilization to human progress. Open to juniors and seniors. Fall term.

II. **European History, 400-1650**—5 hours. A survey course with emphasis upon the movements most important for their influence on later periods. Open to freshmen and sophomores. Fall term.

III. **European History, 1650-1815**—5 hours. A survey course with emphasis upon the French Revolution and the Napoleonic period. Open to sophomores, juniors, and seniors. Fall term.

IV. **European History since 1815**—5 hours. An introduction to current national and international problems. Open to juniors and seniors. Winter term.

V. **European History since 1914**—5 hours. Intensive study of post-war developments. Prerequisite: 10 hours of social science in courses open only to juniors and seniors. Open to juniors and seniors.

VI. **English History to 1688**—5 hours. Open to freshmen, sophomores, and juniors. Fall term.

VII. **English History since 1688**—5 hours. Open to freshmen, sophomores, and juniors. Winter term 1935-36 and alternate years.

VIII. **The British Empire**—5 hours. Open to juniors and seniors. Spring term.

IX. **The Far East**—3 hours. A brief course including recent history of China, Japan, and India. Open to juniors and seniors. Winter term 1935-36 and alternate years.

X. **American History to 1865**—5 hours. Foreign relations, westward expansion, development of democracy, growth of nationalism, and sectional controversies. Open to freshmen and sophomores. Each term.

XI. **American History since 1865**—5 hours. Reconstruction, the rise of big business, financial adjustments, the reform movements, and the emergence of the United States as a world power. Open to sophomores, juniors, and seniors. Each term.

XII. **American Colonial History**—5 hours. Foundation of the American colonies; evolution of economic, social, and governmental



institutions; various phases of the independence movement. Open to sophomores, juniors, and seniors. Spring term.

**XIII. Diplomatic History of the United States**—5 hours. American foreign relations with emphasis upon the Monroe Doctrine, the rights of neutrals, territorial expansion, and peaceful solutions of disputes. Prerequisite: 5 hours of American history. Open to juniors and seniors. Winter term.

**XIV. History of the West**—5 hours. The westward moving frontier and its influence upon American history. Prerequisite: 5 hours of American history. Open to juniors and seniors.

**XV. History of Iowa**—2 hours. Open to freshmen, sophomores, and juniors. Fall and spring terms.

**XVI. Latin-American History**—3 hours. The development of the Latin-American States and their relations to the United States. Open to juniors and seniors. Winter term 1935-36 and alternate years.

**XVII. The Teaching of the Social Sciences**—5 hours. This course has been approved as a course in education (Education XXXIIIk) for a student whose major is history or government or economics and sociology. Prerequisite: 15 hours of social science and Methods and Measurements in the High School. Open to juniors and seniors.

## 2. Government

A major in government must include Government II, X, XI; 15 hours of additional work from courses in government; American History since 1865; and Principles of Economics I.

The work of a student whose major is government must include 5 hours of additional work in history and 5 hours of additional work selected from courses in economics and sociology.

**I. Principles of Political Science**—5 hours. No credit for a student who has credit for American Political Theories. The nature, origin, and sovereignty of the state; the relation of a state to other states; the separation of the powers of the state; the authority of the state over the individual. Open to sophomores, juniors, and seniors. Spring term 1936 and alternate years.

**II. American Government**—5 hours. The republican form of government and the constitutions of Iowa and of the Nation. The organization and actual workings of American government in all its branches. Open to freshmen, sophomores, and juniors. Each term.

**III. American Constitutional History**—5 hours. The development of the Constitution of the United States from its adoption to the present time. Prerequisite: American Government or a course in American history. Open to sophomores, juniors, and seniors. Fall term.

**IV. Constitutional Law**—5 hours. The Constitution of the United States as fundamental law with emphasis upon the provisions that have been interpreted by the supreme court. Prerequisite: American Government. Open to sophomores, juniors, and seniors. Winter term 1935-36 and alternate years.

**V. Local Government**—2 hours. County, township, and village government in the United States. Open to sophomores, juniors, and seniors. Winter term 1934-35 and alternate years.

VI. **Municipal Government**—5 hours. The structure and functions of city government. The relation of the city to the state. Open to juniors and seniors. Fall term.

VII. **State Government and Administration**—3 hours. A comparative study of the organization and administration of state government in the United States. Open to sophomores, juniors, and seniors. Fall term 1935 and alternate years.

VIII. **National Government and Administration**—3 hours. An intensive study of the legislative, executive, and judicial powers and procedures of the national government. Prerequisite: American Government. Open to juniors and seniors. Winter term 1935-36 and alternate years.

IX. **Political Parties**—3 hours. The origin, organization, and operation of political parties in the United States. Open to sophomores, juniors, and seniors. Fall term 1934 and alternate years.

X. **Modern European Governments**—5 hours. A comparative study of the organization and administration of the governments of England, France, Germany, Switzerland, Italy, and certain newer European states. Open to sophomores, juniors, and seniors. Spring term.

XI. **World Government and Politics**—5 hours. The international relations of independent states; arbitration, alliances, conferences, and congresses; the balance of power, the Hague Court, and the League of Nations. Prerequisite: American Government. Open to juniors and seniors. Spring term.

XII. **International Law**—5 hours. The development of the law of nations; its nature, source, and present status; the doctrine of intervention; the laws of war and peace; the rights and duties of neutrals. Prerequisite: American Government. Open to juniors and seniors. Winter term 1934-35 and alternate years.

XIII. **School Laws of Iowa**—3 hours. The legal rights, powers, duties, and responsibilities of school corporations, school boards, school officers, superintendents, teachers, parents, and pupils. Open to juniors and seniors. Spring term 1936 and alternate years.

XIV. **Parliamentary Law**—1 hour. Open to freshmen, sophomores, and juniors. Each term.

### 3. Economics and Sociology

A major in economics and sociology must include Economics I and II; Economics IV or Sociology XIV; 15 hours of additional work in economics and sociology; American History since 1865; and American Government.

The work of a student whose major is economics and sociology must include 5 hours of additional work in history and 5 hours of additional work in government.

#### Economics

I. **Principles of Economics I**—5 hours. Open to freshmen, sophomores, and juniors. Each term.

II. **Principles of Economics II**—5 hours. A continuation of Principles of Economics I with application to current problems. Prereq-



quisite: Principles of Economics I. Open to sophomores, juniors, and seniors. Spring term.

III. **Economic History of the United States**—5 hours. Open to freshmen and sophomores.

IV. **Money and Banking**—5 hours. Open to sophomores, juniors, and seniors. Fall term.

V. **Insurance**—2 hours. Property and life insurance. Open to juniors and seniors. Spring term.

VI. **Corporation Finance and Investments**—5 hours. The financing of business enterprises; corporate and individual investments; failures and reorganizations. Open to juniors and seniors. Spring term.

VII. **Public Finance**—5 hours. Sources and administration of public funds. Open to juniors and seniors. Winter term.

VIII. **Business Cycles**—3 hours. Trade movements. The stabilization of business. Open to juniors and seniors.

IX. **Transportation**—3 hours. Problems of highway, water, rail, and air transportation. The regulation of rates and services. Prerequisite: Principles of Economics I. Open to juniors and seniors. Winter term 1934-35 and alternate years.

X. **Public Utilities**—5 hours. History of public utilities; their relationship to the community; valuation and rates; service requirements; regulation. Open to juniors and seniors. Winter term 1935-36 and alternate years.

XI. **Industrial Combinations**—3 hours. Types of organization; production on a large scale; legislation. Open to juniors and seniors.

XII. **Labor Problems**—3 hours. Labor organizations; wage levels, hours of work, unemployment; women in industry; methods of settling industrial disputes; labor legislation; industrial democracy. Open to sophomores, juniors, and seniors. Winter term.

XIII. **Foreign Trade Problems**—3 hours. International trade; foreign exchange; trade policies and tariffs; international debts. Prerequisite: Principles of Economics I. Open to juniors and seniors. Winter term 1934-35 and alternate years.

### Sociology

XIV. **General Sociology**—5 hours. The principal social forces and institutions involved in the evolution of society. Methods of social control. Open to sophomores, juniors, and seniors. Each term.

XV. **Rural Sociology**—3 hours. Agricultural production, farm incomes, rural credits, tenantry, rural leadership, social centers and recreation, the rural church and the rural school. Open to freshmen, sophomores, and juniors.

XVI. **The Family**—3 hours. The origin, development, and social value of the family. Problems. Open to juniors and seniors.

XVII. **Population**—3 hours. The composition of population; theories of population; the improvement of racial quality; growth of

population and its bearing upon wages and standards of living; rural population. Open to juniors and seniors. Fall term.

XVIII. **Crime and Poverty**—5 hours. The causes, relief, and elimination of poverty; the nature, causes, and prevention of crime; the treatment of the criminal. Open to juniors and seniors. Fall term.

XIX. **Social Problems**—2 hours. Open to sophomores, juniors, and seniors. Winter term.

## TEACHING

Credit used in meeting the teaching requirements of any curriculum must be earned in the Department of Teaching at this institution.

A major in teaching and critic training must include 15 hours of Teaching, 15 hours of Critic Training, and 10 hours of education.

In the work in Nursery School and Kindergarten Teaching, Primary Teaching, and Teaching, students take charge of classes in the campus schools or in affiliated schools, make and submit lesson plans, meet the critics for conferences, prepare comprehensive reports on the phases of teaching undertaken during the term, and perform such other duties as may be assigned.

A student who has completed a two-year curriculum and has earned only 10 hours of credit in teaching must earn 5 hours of additional credit in teaching in the senior year unless released from this requirement by the head of the Department of Teaching. Critics in training are permitted to register for the last 5 hours of teaching in the junior year.

A student who cannot register for work on the campus during his term of teaching because of a teaching assignment outside of Cedar Falls may register for 15 hours of teaching during the term and may use credit for this work in meeting the requirements for graduation with the limitation that not more than 15 hours of credit in teaching including Rural Observation and Teaching may be used in meeting the requirements for graduation from any curriculum.

The course in Critic Training is open to a student who has completed at least two years of college work and has been selected by the department as a critic in training. A critic in training is employed as a teacher in one of the campus schools or in an affiliated school and is permitted to register for 5 hours of other college work each term. For further particulars consult the head of the Department of Teaching.

A critic in training may receive a department certificate in critic training on meeting the requirements for a degree and completing six terms of service in the Department of Teaching.

A student who has received a bachelor's degree from a standard college and has been selected as a critic in training may substitute eleven, twenty-two, or thirty-three weeks of graduate credit earned at a standard graduate school for one, two, or three terms of credit in critic training in meeting the requirements for a department certificate in critic training.

I. **Directed Observation of Nursery School, Kindergarten, and Primary Work**—2 hours. Credit only on the curriculum for teachers in nursery school and kindergarten. Observation and discussion of activities of children from two to eight years of age with emphasis upon the work of the kindergarten and first grade. Daily. Open to freshmen and sophomores.



**II. Directed Observation of Primary Work**—2 hours. Credit only on the curriculum for teachers in primary grades. Observation and discussion of illustrative lessons. Lesson plans and units of work. Four periods a week. Prerequisite: Child Psychology. Open to freshmen and sophomores.

**III. Illustrative Teaching**—Credit required. A prerequisite of Teaching, except on the curricula for teachers in rural schools, for teachers in nursery school and kindergarten, and for teachers in primary grades. Observation and discussion of illustrative lessons, plan writing, projects, and lectures. Three periods a week. Prerequisite: Educational Psychology I.

**IV. Industrial Arts for Nursery School and Kindergarten**—2½ hours. Credit only on the curriculum for teachers in nursery school and kindergarten. Materials, projects, observation. Daily. Open to freshmen and sophomores.

**V. Activities of Young Children**—2½ hours. Credit only on the curricula for teachers in nursery school and kindergarten and for teachers in primary grades. Child life in its physical, mental, and social aspects. Observation in the nursery school and kindergarten, lectures, references, and class discussions. Daily. Open to freshmen and sophomores.

**VI. Rural Observation and Teaching**—2½ hours. Credit only on the curriculum for teachers in rural schools and on other curricula for graduates of the curriculum for teachers in rural schools. Observation of illustrative lessons with discussion and plan writing. Teaching in the demonstration schools under critic supervision. Three periods on each of two afternoons a week. Open to freshmen and sophomores.

**VII. Nursery School and Kindergarten Teaching**—15 hours. Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit. Prerequisite: Directed Observation of Primary Work and 10 hours of psychology and education; or Activities of Young Children, Industrial Arts for the Nursery School and Kindergarten, Directed Observation of Nursery School, Kindergarten, and Primary Work, and 10 hours of psychology and education. Open to sophomores, juniors, and seniors.

**VIII. Primary Teaching**—15 hours. Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit. Prerequisite: Directed Observation of Primary Work and 10 hours of psychology and education. Open to sophomores, juniors, and seniors.

**IX. Teaching**—15 hours. Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit. Prerequisite: Illustrative Teaching and 10 hours of psychology and education. Open to sophomores, juniors, and seniors.

**X. Critic Training**—15 hours. Six terms of training. Students are selected for this work by the Department of Teaching. Prerequisite: two years of college credit. Open to juniors and seniors.

## EXTENSION SERVICE FOR 1934-1935

The extension service includes schools service, extension class work, and correspondence work.

### SCHOOLS SERVICE

The services of the members of the extension staff are available to teachers, administrators, and boards of education for the improvement of instruction and administration in the public schools of Iowa.

### EXTENSION CREDIT WORK

Extension credit may be earned by extension class work or by correspondence work. The fee for each hour of extension credit work is \$4.

#### General Regulations

No student who is registered for residence work in this institution or for credit work of any kind in any other institution may be registered for extension credit work.

No student may earn more than 15 term hours of credit by extension work in any one calendar year. No student may earn more than 5 term hours of credit by extension work in any one period of twelve weeks.

A five-hour course may not be completed by extension work in less than twelve weeks, a three-hour course in less than eight weeks, or a two-hour course in less than five weeks.

Not more than one-fourth of the credit required for the completion of any curriculum may be earned by other than residence work.

The regulations pertaining to marks and credit are the same for extension work as for work in residence.

#### Extension Class Work

Extension classes may be organized either on the campus or elsewhere in the state for teachers in service whenever a sufficient number of persons properly qualified to take an extension course indicate their desire to register for the course.

Only those students who fully meet college entrance requirements may receive credit for extension class work. Other persons, especially teachers in service, twenty-one years of age or over, who do not fully meet college entrance requirements may be admitted to such classes as special students. Any person may be admitted to an extension class for work without credit.

For each term hour of credit work, an extension class receives not less than ten clock hours of actual class instruction. No extension class receives more than five hours of class instruction a week.

#### Courses Approved for Extension Class Work off the Campus

For the content, prerequisites, and classification limits of these courses, see the departmental statements of courses of instruction.



## Art

	Hours		Hours
Drawing I .....	2½	Applied Arts I .....	2½
General Design .....	2½	Commercial Art .....	2½
Industrial Arts for Interme- diate Grades .....	2½	Art Appreciation .....	5
		Interior Decoration .....	2½

## Commercial Education

	Hours		Hours
Accounting I, II, III, each....	5	Salesmanship .....	2
Secretarial Training I.....	3	Advertising .....	3
Secretarial Training II.....	2	Commercial Law I.....	5
Commercial Correspondence	5	Commercial Law II.....	3
Methods in Junior Business Training .....	3	History of Commerce.....	2

## Economics and Sociology

	Hours		Hours
Principles of Economics I....	5	Labor Problems .....	3
Money and Banking.....	5	General Sociology .....	5
Corporation Finance and Investments .....	5	The Family .....	3
Public Finance .....	5	Social Problems .....	2

## Education

	Hours		Hours
Introduction to Education....	5	Mental Tests .....	2
Primary Methods in Read- ing and Mathematics.....	5	Methods and Measurements in the High School.....	5
Primary Methods in Lan- guage and Literature.....	5	The Elementary School Cur- riculum .....	3
Elementary School Methods	5	The Consolidated School.....	5
The Teaching of Reading and Spelling .....	5	Elementary School Manage- ment .....	5
Teaching Techniques .....	2	Elementary School Super- vision .....	5
Tests and Measurements for the Elementary School....	3	History of Education.....	5

## English

	Hours		Hours
English I .....	5	American Literature, 1640-1875 .....	5
Description and Narration..	5	American Prose Writers, 1825-1875 .....	2
Advanced Exposition .....	5	American Poets, 1825-1875..	3
Elements of Literature.....	5	American Prose Writers since 1875 .....	3
English Literature, 1784-1832 .....	5	American Poets since 1875..	2
English Literature, 1832-1880 .....	5	Public Speaking .....	5
Shakespeare .....	5		
English Poets since 1875.....	2		
English Prose Writers since 1875 .....	3		

## German

	Hours		Hours
German I, II, each.....	5	German Stories and Plays.....	5

## Government

	Hours		Hours
American Government .....	5	Political Parties .....	3
American Constitutional History .....	5	Modern European Govern- ments .....	5
Local Government .....	2	World Government and Politics .....	5
Municipal Government .....	5	School Laws of Iowa.....	3
State Government and Administration .....	3		

## History

	Hours		Hours
European History, 400-1650	5	American History to 1865....	5
European History, 1650-1815	5	American History since 1865	5
European History since 1815	5	Diplomatic History of the United States .....	5
English History to 1688.....	5	History of Iowa.....	2
English History since 1688..	5		

## Home Economics

	Hours		Hours
Textiles .....	3	House Furnishing and Decoration .....	3

## Latin

	Hours		Hours
Elementary Latin I, II, III, each .....	5	Ovid .....	5
Cicero's Orations I, II, each	5	Vergil I, II, each.....	5

## Mathematics

	Hours		Hours
Mathematics I, College Algebra .....	5	Mathematics of Finance.....	3
Mathematics III .....	5	Statistical Measurement .....	5
Calculus I .....	5	Principles of Elementary Mathematics I .....	5
Theoretical Mechanics A.....	3	Principles of Elementary Mathematics II .....	3
Modern Geometry A, Projec- tive Geometry .....	3	The Teaching of Secondary Mathematics .....	5
Modern Geometry B, Advanced Euclidian Geometry .....	2		

## Natural Science

	Hours		Hours
Animal Biology .....	5	Astronomy .....	5
Heredity .....	3	Elements of Geography I....	5



**Psychology**

	Hours		Hours
Educational Psychology I,		Genetic Psychology .....	5
II, each .....	5	Social Psychology .....	5
Child Psychology .....	5		

**Romance Languages**

	Hours		Hours
French I, II, III, each.....	5	Spanish I, II, III, each.....	5

**Extension Class Work on the Campus**

With the approval of the head of the department concerned any course offered for work in residence may be offered for extension class work on the campus.

**CORRESPONDENCE WORK**

To be registered for correspondence work an applicant must have met all requirements for college entrance and must have earned in addition at least one full year of college credit, except that with the permission of the extension council mature and experienced teachers may register for correspondence work without a full year of college credit.

To be registered for correspondence work an applicant must have earned an average of 1.75 times as many grade points as hours of credit at this institution or must have maintained as high scholarship standing at another institution.

At least two written lessons for each term hour of credit work are required of a student registered for correspondence work.

No credit may be received for correspondence work unless the student has satisfactorily passed a written examination on the course.

Partial credit earned in residence in any course may not be completed by correspondence work.

A correspondence course must be completed within twelve months from the date of registration. If, however, a student who is registered for correspondence work registers for residence work within one year from the date of registration for his correspondence work and before the completion of that work, he is entitled to continue correspondence work at the close of his residence work until the entire time of his correspondence work exclusive of time spent in residence work amounts to twelve months.

After a student has registered for correspondence work, all communications between the instructor and the student concerning the work must pass through the hands of the Director of the Extension Division.

**Courses Approved for Correspondence Work**

For the content, prerequisites, and classification limits of these courses, see the departmental statements of courses of instruction.

## Art

## Hours

History of Art..... 5

## Commercial Education

## Hours

Shorthand II ..... 5  
 Accounting I, II, III, each... 5  
 Commercial Correspondence 5  
 Methods in Junior Business  
 Training ..... 3  
 Retail Merchandising ..... 3  
 Salesmanship ..... 2  
 Advertising ..... 3  
 Marketing ..... 3

## Hours

Business Organization ..... 2  
 Commercial Law I..... 5  
 Commercial Law II..... 3  
 History of Commerce..... 2  
 Problems in Commercial  
 Education ..... 2  
 The Teaching of Shorthand  
 and Typewriting ..... 3  
 The Teaching of Book-  
 keeping ..... 2

## Economics and Sociology

## Hours

Principles of Economics I... 5  
 Money and Banking..... 5  
 Labor Problems ..... 3

## Hours

General Sociology ..... 5  
 Crime and Poverty..... 5  
 Social Problems ..... 2

## Education

## Hours

Elementary School Methods 5  
 The Teaching of Reading  
 and Spelling ..... 5  
 Statistical Methods in  
 Education ..... 2  
 Tests and Measurements for  
 the Elementary School... 3  
 Methods and Measurements  
 in the High School..... 5  
 The Elementary School  
 Curriculum ..... 3

## Hours

The Consolidated School..... 5  
 Elementary School Supervi-  
 sion ..... 5  
 School Administration..... 5  
 History of Nursery School,  
 Kindergarten, and Pri-  
 mary Education ..... 5  
 History of American  
 Education ..... 5  
 History of Education..... 5

## English

## Hours

Description and Narration... 5  
 Advanced Exposition ..... 5  
 Advanced Story Writing..... 5  
 Shakespeare ..... 5

## Hours

The English Novel,  
 1740-1875 ..... 5  
 American Prose Writers,  
 1825-1875 ..... 2  
 American Poets, 1825-1875.. 3

## German

## Hours

Recent German Prose..... 5  
 Goethe's Hermann und  
 Dorothea ..... 2

## Hours

Schiller's Dramas ..... 5  
 German Composition and  
 Advanced Grammar..... 3



## Government

	Hours		Hours
American Government .....	5	Modern European Govern-	
Local Government .....	2	ments .....	5
Municipal Government .....	5	School Laws of Iowa.....	3

## History

	Hours		Hours
European History, 400-1650..	5	English History since 1688..	5
European History, 1650-1815	5	American History to 1865....	5
European History since 1815	5	American History since 1865	5
European History since 1914	5	Diplomatic History of the	
English History to 1688.....	5	United States .....	5

## Home Economics

	Hours		Hours
Textiles .....	3	House Furnishing and	
Nutrition of Children.....	3	Decoration .....	3

## Mathematics

	Hours		Hours
Mathematics I, College		Modern Geometry B, Advanced	
Algebra .....	5	Euclidian Geometry .....	2
Mathematics II .....	5	History of Mathematics.....	3
Mathematics III .....	5	Principles of Elementary	
Calculus I, II, each.....	5	Mathematics I .....	5
Theoretical Mechanics A.....	3	Principles of Elementary	
Modern Geometry A, Projec-		Mathematics II .....	3
tive Geometry .....	3	The Teaching of Secondary	
		Mathematics .....	5

## Music

	Hours		Hours
History of Music I.....	2	History of Music II.....	3

## Natural Science

	Hours		Hours
Soil Fertility .....	2	Farm Management .....	3
Feeds and Feeding.....	3	Marketing Agricultural	
Principles of Breeding.....	2	Products .....	3

## Psychology

	Hours		Hours
Educational Psychology I,		Genetic Psychology .....	5
II, each .....	5	Psychology of Adolescence..	5
Child Psychology .....	5	Social Psychology .....	5
Mental Hygiene .....	2		

## Romance Languages

	Hours		Hours
Modern French Prose.....	3	The Plays of Corneille and	
French Short Stories.....	3	Molière .....	3
Rostand's Cyrano de		Racine and La Fontaine.....	3
Bergerac .....	3	French Literature of the	
French Novel of the		18th Century .....	3
Romantic Period .....	3	Edmond Rostand .....	2
French Novel and Short Story		Pierre Loti .....	2
of the Realistic Period....	3	Spanish Prose .....	3
Contemporary French			
Drama .....	3		



## GRADUATES, 1932-1933

A list of graduates from November, 1932 to August, 1933

### FOUR-YEAR CURRICULA

#### DEGREE CURRICULUM ORGANIZED FOR MAJOR SUBJECTS

Major and minor lines of work are indicated.

#### The Degree of Bachelor of Arts in Education

November, 1932

Barker, Dorothy Delight (History—English).....	Oneida
Berrier, Raymond Marvin (Speech—English).....	Nashua
Cramer, Roscoe (History—Economics).....	Reinbeck
Edwards, Gwendolyn (English—Speech).....	Waterloo
Fenney, Esther Luella (History—Mathematics).....	Northwood
Hanson, Gladys E. (Primary Teaching and Critic Training—English).....	Cedar Falls
Jansen, Elta Dorothy (English—Speech).....	Marshalltown
Kathan, Marshall (Art—Speech).....	Osage
Mayne, Willis Ellsworth, Jr. (Economics—History).....	Waterloo
Morrison, Margaret Mary (Nursery School and Kindergarten Education—English).....	Sioux City
Mullin, Charles C. (Education—Mathematics).....	Kenwood
Nelson, Almada G. (Primary Teaching and Critic Training—Economics).....	Cherokee
Nielsen, Margaret Christina (History—English).....	Cedar Falls

March, 1933

Barnes, Margaret Claire (English—Psychology).....	Cherokee
Bowdish, Laura E. (Primary Education—English).....	Orofino, Idaho
Collins, John H. (Education—Agriculture).....	North English
Hosch, Kermit F. (Public School Music—Education).....	Sheldon
Kluck, Mildred L. (Physical Education—Speech).....	Mason City
Landhuis, Cornelius (Physical Science—Mathematics).....	Boydton
Phillips, Helen K. (Education—English).....	Keokuk
Riekema, Willard (Mathematics—English).....	Wellsburg
Steiber, Nelvin C. (Economics—Government).....	Lansing
Yellman, Theodore P. (English—Chemistry).....	Sioux City

May, 1933

Adams, Velma (Mathematics—History).....	Chariton
Anderegg, Mildred M. (Public School Music—Earth Science).....	West Bend
Anderson, Mabel Ruth (History—English).....	Albert City
Arends, Leonard J. (Orchestral and Band Music—Mathematics).....	Alexander
Babb, Margaret Ellen (Primary Education—English).....	Wakonda, S. Dak.
Baer, Catherine (Physical Education—History).....	Doland, S. Dak.
Baurer, Wilbur R. (Public School Music—Education).....	Geneva
Bishop, DeWayne Morris (Economics—History).....	Waterloo
Blanchard, Howard L. (Economics—Government).....	Lone Rock
Bloker, Gwendolyn (English—Speech).....	Waterloo
Boysen, George Glenn (Mathematics—Economics).....	Dike
Bragonier, Wendell Hughell (Chemistry—Physics).....	Cedar Falls
Breckenfelder, Frederick Wm. (Chemistry—Mathematics).....	Cedar Falls
Brett, Charlotte Mae (Primary Education—English).....	Spirit Lake
Brindley, John A. (Biological Science—Mathematics).....	Cedar Falls
Brown, Mabel Benton (Public School Music—Education).....	Cedar Falls
Buckmaster, Robert R. (Government—History).....	Dunkerton
Cahow, Linnie Juanita (Primary Teaching and Critic Training—German).....	Cedar Falls
Charlesworth, Alice Mae (Teaching and Critic Training—History).....	Williams
Christensen, Agnes Katherine (Mathematics—English).....	Cedar Falls
Christiansen, Margaret V. (History—Mathematics).....	Cedar Falls
Cook, Donald (History—Economics).....	Corwith
Dennis, Loretta Elizabeth (Physical Education—Government).....	Rockford, Ill.
Dennis, Lucile M. (Primary Education—English).....	Cedar Falls
Dix, Roderick Leland (Economics—History).....	Cedar Falls
Dodge, Dolores Margaret (English—History).....	Waterloo
Dreesman, Lola E. (History—English).....	Algona
Dress, M. Lucile (Primary Education—Mathematics).....	Webster City
Dunlea, Lavon Gertrude (English—French).....	Dubuque
Dunn, Wendel A. (Economics—History, Mathematics).....	Kingsley

Dutcher, Francis Albert (Economics—Manual Arts).....	Cedar Falls
Epley, Clara (History—English).....	Shell Rock
Evans, Leroy B. (Economics—English).....	Parkersburg
Flory, Harry Wm. (Mathematics—Physics).....	Kinross
Frese, Harold (Orchestral and Band Music—German).....	Tripoli
Frieden, Mabel H. (History—Mathematics).....	Elgin
Funk, Marion I. (English—French).....	Waterloo
Getchell, Dorothy-Mae (English—French).....	Cedar Falls
Glass, Gerald J. (Economics—History).....	Waterloo
Gugeler, Mary Alice (Nursery School and Kindergarten Education—English).....	Danville
Hansen, Virginia Louise (French—English).....	Cedar Falls
Harmon, Marie Vera (Primary Education—Art).....	Sheldahl
Harnisch, Wilma Ruth (Mathematics—Latin).....	Cedar Rapids
Haven, Harry W. (Economics—History).....	Minburn
Hirons, Frances Josephine (Art—Speech).....	Sac City
Hutchison, Eckels (Economics—Government).....	Waterloo
Jewell, Naomi Laurabelle (Speech—English).....	Cedar Falls
Kauffman, Madelein Noack (Public School Music—English).....	Colesburg
Knapp, Lucille Emmert (History—English).....	Redfield
Lahmon, Mary M. (Elementary Education—History).....	Belle Plaine
Lake, J. B. (Speech—English).....	Cedar Falls
Laton, Marian Virginia (History—English).....	Spencer
Latta, Ruth (Public School Music—Education).....	Cedar Falls
Leksell, Zelpha M. (Primary Education—English).....	Webster City
Lewis, Pearl E. (Physical Education—History).....	Waterloo
Lincoln, Burtyce J. (History—Physical Education).....	Sheffield
Luick, Muriel A. (Physical Education—English).....	Belmond
Madsen, Agatha B. (Physical Education—French).....	Cedar Falls
Mandernach, Mae Gertrude (History—English).....	Sac City
Marinan, Mary Frances (Spanish—History).....	Waterloo
Martin, Leo A. (Government—Speech).....	Colfax
Meyer, Irene Carolyn (Nursery School and Kindergarten Teaching and Critic Training—English).....	Davenport
Meyer, Leland M. (Public School Music—Education).....	Nashua
Moothart, Pauline E. (Speech—French).....	Des Moines
Morgan, Olive Margaret (History—French).....	Chicago, Ill.
McKinney, Harriett A. (Mathematics—History).....	Logan
Nelson, Gertrude M. (Physical Education—English, Biological Science).....	Cedar Falls
O'Connor, Edward M. (Mathematics—Government).....	Mt. Ayr
Oehring, Esther A. (Primary Education—French).....	McGregor
Oleson, Esther A. (History—Art).....	Cedar Falls
Olson, Dorothy Arlene (Latin—English).....	Albert City
Padley, Mary A. (History—English).....	Van Meter
Peterson, Ilene N. (Physical Education—English).....	Ames
Peterson, Urma M. (Government—French).....	Cedar Falls
Phipps, Florence Melvina (Orchestral Music—English).....	Renwick
Pierce, Wendell (Mathematics—Physics).....	Cleghorn
Prescott, Carol W. (Public School Music—English).....	Waterloo
Prior, Roger A. (Earth Science—Economics).....	Cedar Falls
Reinstein, Max Ralph (Government—History).....	Waterloo
Reisser, Verna Bertha (Mathematics—English).....	Sanborn
Riebesehl, Viola (Elementary Education—English).....	Worthington, Minn.
Ristrim, Gayle Lois (Speech—English).....	Stanhope
Roberts, Ralph Howard (Speech—English).....	Windon, Minn.
Robinson, Grace Reh (History—French).....	Waterloo
Rupprich, Noma Lureen (Public School Music—Education).....	La Porte City
Samuels, Vadna Maxine (Public School Music—Education).....	Storm Lake
Schultz, Jeanette I. (English—History).....	Luana
Seaton, Clay W. (Mathematics—Chemistry).....	Redding
Shane, Charles Richard (Government—English).....	Waterloo
Shaw, Flora Thane (English—Speech).....	Kellogg
Shawver, Clarice Pauline (Primary Education—English).....	Freeport, Ill.
Shockey, Margaret Ellen (Public School Music—English).....	Chariton
Short, Hattie Zoe (Public School Music—Education).....	Cedar Falls
Skeel, Dorothea (Public School Music—Mathematics).....	Parkersburg
Skinner, D. L. (Economics—Commercial Education).....	Cedar Falls
Smith, Helen Keefe (English—Speech).....	Cedar Falls
Steeves, Elizabeth (Art—Home Economics).....	Waterloo
Steinberg, Freda Louise (Mathematics—Spanish).....	Waterloo
Sturdevant, Helen (Physical Education—Biological Science).....	Webster
Sucher, Robert Lawrence (History—Mathematics).....	Cedar Falls
Taylor, Helen Howland (Primary Education—English).....	Red Oak
Tenney, Norma M. (Physical Education—Biological Science).....	Strawberry Point
Thornburg, Hurschel C. (History—Government).....	Harlan
Turner, Leta B. (Public School Music—English).....	Waterloo
von Talge, Bernard William (History—Mathematics).....	Earlville
Warner, Robert A. (Orchestral and Band Music—Biological Science).....	Parkersburg



Watson, Margaret Marie (Mathematics—History).....	Cedar Falls
White, Mary Ethel (Public School Music—English).....	Columbus Junction
White, Orman LeRoy (Chemistry—Mathematics).....	Cedar Falls
Wilcox, Helen A. (Public School Music—Earth Science).....	Dumont
Williams, Shirley Ramona (Chemistry—Mathematics).....	Cedar Falls
Wilson, Arley James (Government—History).....	Marshalltown
Wilson, May Lucile (Physical Education—Speech).....	Sioux City
Windhurst, Frances M. (Physical Education—Biological Science, English).....	West Union

### The Degree of Bachelor of Science in Education

November, 1932

Bereiter, Bonnie B. (Commercial Education—History).....	Brighton
Dowden, Milton L. (Manual Arts—Agriculture).....	Cedar Falls
Harger, Floyd H. (Coaching and Athletics—Agriculture).....	Grand River
Schwyhart, E. Walter (Coaching and Athletics—Agriculture).....	Grundy Center
Shapero, Abe N. (Commercial Education—Economics).....	Waterloo

March, 1933

Gienger, Dorothea Willimine (Home Economics—Biological Science).....	Gladbrook
Sheffield, Royal Phillip (Coaching and Athletics—Mathematics).....	Story City
Whipple, Gladys I. (Home Economics—English).....	Charles City

May, 1933

Barber, Helen A. (Commercial Education—Economics).....	Clear Lake
Barnes, Alice M. (Home Economics—Speech).....	Cedar Falls
Berends, Everett (Coaching and Athletics—Manual Arts).....	Parkersburg
Berg, Anna Ellen (Commercial Education—Economics).....	Eagle Grove
Bloom, Walter F. (Coaching and Athletics—Agriculture).....	Renwick
Boller, Max Alfred (Coaching and Athletics—Manual Arts).....	Nevada
Burd, Carolyn H. (Commercial Education—English).....	Cedar Falls
Castle, Paul T. (Manual Arts—Agriculture).....	Grant Center
Christensen, Laura (Commercial Education—Mathematics).....	Forest City
Christensen, Lloyd Everett (Manual Arts—Agriculture).....	Parkersburg
Cole, Don H. (Coaching and Athletics—Manual Arts).....	Ames
Cover, Helen L. (Home Economics—History).....	Bedford
Cowie, Florence L. (Home Economics—Biological Science).....	Cedar Falls
Duea, Virgil Eldred (Coaching and Athletics—Manual Arts).....	Roland
Dunning, William (Manual Arts—Agriculture).....	Eddyville
Fisher, Gale William (Coaching and Athletics—Agriculture, History).....	Washington
Grimes, William N. (Coaching and Athletics—Agriculture).....	Shannon City
Haahr, Marion T. (Commercial Education—History).....	Cedar Falls
Hayes, Herbert G. (Agriculture—Manual Arts).....	New Albin
Hinde, Clarence H. (Coaching and Athletics—Mathematics).....	Nisswa, Minn.
Hughes, Webster (Manual Arts—Agriculture).....	Lime Springs
Johnson, Edward Davis (Coaching and Athletics—Biological Science).....	Cedar Falls
Johnson, Oscar G. (Manual Arts—Agriculture).....	Northwood
Junker, Leah Venita (Commercial Education—Government).....	Glidden
Kingery, Delmer (Coaching and Athletics—Agriculture).....	Greene
Kramer, Maurice A. (Commercial Education—Economics).....	Thornburg
Lage, Kenneth Charles (Manual Arts—Agriculture).....	Latimer
Larson, Henry D. (Commercial Education—Economics).....	Diagonal
Meewes, Clarence (Coaching and Athletics—Mathematics).....	Reinbeck
Morris, Elzan (Commercial Education—Government).....	Cedar Falls
Nelson, Harold G. (Coaching and Athletics—Education).....	Emmetsburg
Nevius, Ruthe L. (Commercial Education—English).....	Bedford
Olsen, Arthur Paul (Coaching and Athletics—Agriculture).....	Cedar Falls
Palmer, Dorothy B. (Commercial Education—English).....	Cedar Falls
Pieper, Edna E. (Commercial Education—Mathematics).....	Menlo
Ralston, Frank (Coaching and Athletics—Manual Arts).....	Keota
Risse, Delmar W. (Manual Arts—Agriculture).....	Grimm
Stieger, Alvin Carl (Coaching and Athletics—History).....	Nashua
Stilwell, Ruth E. (Commercial Education—English).....	New Sharon
Turbett, Ralph Clifford (Coaching and Athletics—Manual Arts).....	Toledo
Wegner, Helen Marie (Commercial Education—Speech).....	Postville
Westwick, Merlin (Coaching and Athletics—Agriculture).....	Williams
Willert, Roger Franklin (Coaching and Athletics—Mathematics).....	Reinbeck
Williams, Emma A. (Commercial Education—English).....	Waterloo
Zimmerman, Neva Marjorie (Home Economics—English).....	Basset

## The Degree of Bachelor of Arts

August, 1933

Allan, Oran J. (History—English, Speech).....	Farmdale, Fla.
Andrews, Earnest E. (Physical Science—Biological Science).....	Delta
Arends, Jesse E. M. (Economics and Sociology—Commercial Education, Agriculture).....	Alexander
Barth, Robert Joseph (Chemistry—Physics, Mathematics).....	Waterloo
Beecher, Mary Evelyn (Earth Science—History, English).....	Traer
Benshoof, Howard L. (History—Government, English).....	Cedar Falls
Berg, Sara E. (Education—Economics and Sociology).....	Eagle Grove
Bolton, Zora F. (Latin—Mathematics, English, History).....	Carson
Bower, Lynford C. (Education—Manual Arts).....	Brandon
Boyle, M. Reid (Mathematics—Commercial Education).....	McGregor
Brisbine, Marian J. (Nursery School and Kindergarten Education— French).....	Mason City
Brown, Ruth F. (Primary Education—Psychology, Economics and Sociology).....	Boone
Chapman, Richard Knill (Economics and Sociology—History).....	Cedar Falls
Cole, Evelyn Rohrer (Commercial Education—English).....	Rhodes
Crabbs, Geraldine B. (Biological Science—Physical Education for Women, History).....	Madison, S. Dak.
Crandal, Mary Arline (Primary Education—Economics and Sociology).....	Cedar Falls
Craven, Jewell (Nursery School and Kindergarten Education—English, Earth Science).....	Greenfield
Cummins, Oather (Manual Arts—Agriculture).....	Akron
Dixon, Alice Jane (Mathematics—History, English).....	Dunlap
Dolan, Leland J. (History—Speech).....	Cedar Falls
Dresselhuus, Gertrude Janet (Commercial Education—English, Economics and Sociology).....	Parkersburg
Duncan, Betty Maurine (Art—Physical Education for Women).....	Sioux City
Dunlop, Ruth H. (History—Government).....	Cedar Falls
Eckstein, Catherine Gertrude (Primary Education—English).....	Waterloo
Elliott, Leona Marie (Earth Science—Education, English).....	Shell Rock
Ely, Ruth G. (Teaching and Critic Training—Art).....	Webster City
Flanagan, Mary Veronica (Primary Education—English).....	Williamsburg
Foley, Sarah Jane (English—History, French).....	Davenport
Gray, Merle B. (Primary Education—Psychology).....	Independence
Johnson, Theodore (History—English).....	Belmond
Jones, Marcella (History—English).....	Lime Springs
Knudsen, Kenneth Bernold (Chemistry—Mathematics).....	Scarville
Lambert, Edward C. (Economics and Sociology—English, History).....	Oskaloosa
Lange, Stella Rose (Education—Earth Science, Economics and Sociology).....	Dubuque
Lichtenheld, Margaret (History—Earth Science, Government).....	Oskaloosa
Marsh, Lillian Irene (History—Economics and Sociology, Earth Science).....	Greene
Masterman, Neva May (English—Biological Science).....	Spencer
Milburn, James W. (History—English).....	West Liberty
Milburn, Leota Isabel (Earth Science—Education, English).....	Stratford
Milligan, Donald C. (Economics and Sociology—Education).....	Pulaski
Murphy, Georgiana B. (English—Speech).....	Wapello
McAfee, Mildred Fae (Mathematics—History).....	Oakley
McEvoy, Margaret Mary (English—History).....	Emmetsburg
Newman, Oscar E. L. (History—Economics and Sociology).....	Madrid
Ogden, Bartley Glen (Elementary Education—Agriculture).....	Akron
Owen, Lloyd A. (Mathematics—Speech, Economics and Sociology).....	Centerville
Pladsen, Valborg Theoline (Earth Science—History, German).....	Harpers Ferry
Poiton, Russell C. (Education—Manual Arts).....	Farragut
Roseland, Ida E. (Primary Education—English).....	Eagle Grove
Rummel, J. Francis (Mathematics—French).....	Cedar Falls
Schlotfeldt, Ralph Christian (Rural Education—Economics and Sociology, English).....	Mt. Auburn
Schrubbe, Margaret Elizabeth (English—Speech, Earth Science, History).....	Decorah
Seeley, Eleanor R. (Primary Education—French).....	Maquoketa
Sherman, Everett (Economics and Sociology—Earth Science).....	Cedar Falls
Short, Mary Estelle (Elementary Education—Art, English).....	Rolfe
Sinclair, Olive (Mathematics—Chemistry).....	Waterloo
Southard, Helen Arelene (Primary Education—History).....	Boone
Staehling, Barbara M. (Mathematics—Biological Science).....	Myrtle, Minn.
Starbuck, Dorothy (Music—French).....	Rockford, Ill.
Thiese, Alma Bruening (Nursery School and Kindergarten Education— German, English).....	Oelwein
Thommesen, Martha (English—Mathematics).....	Waterloo
Weltha, Leona M. (Elementary Education—Earth Science).....	Randall
Woods, Harriet Alice (Earth Science—History, English).....	Winterset
Wright, J. R., Jr. (Economics and Sociology—History).....	Early
Wymore, Warren L. (Elementary Education—History).....	Rose Hill



## The Degree of Bachelor of Science

Schepker, Louise M. (Earth Science—History).....Greeley

## DEGREE CURRICULA ORGANIZED FOR SPECIAL SUBJECTS

Minor lines of work are indicated.

August, 1933

## The Degree of Bachelor of Science in Commercial Education

Cole, Ardon L. (English, History).....Aberdeen, S. Dak.  
 Linderman, Gladys Gayle (Speech).....New Hampton  
 Mill, Margaret (Economics and Sociology).....Denison  
 Nicholson, Mary Marguerite (Economics and Sociology, English).....Des Moines  
 Strand, Carl Benhard (Speech).....Decorah  
 Whelan, Edith Elizabeth (History).....Glidden

## The Degree of Bachelor of Science in Home Economics

Arends, Sylvia M. (English).....Alexander  
 Hunt, Fleta Lucile (English).....Sheffield

## The Degree of Bachelor of Science in Manual Arts

Collins, William J. (Agriculture).....Estherville  
 Dillon, Loren F. (Mathematics).....Cedar Falls  
 Eernisse, Clarence Ira (Agriculture).....Sac City  
 Juhl, Ellis A. (History).....Cedar Falls  
 Norton, Burton Ellwood (Agriculture).....Algona  
 Tessmer, Arthur W. (Agriculture).....Waucoma

## The Degree of Bachelor of Science in Physical Education

Black, Russell Wayne (Agriculture).....Cedar Falls  
 Coler, Lee (History).....Ackley  
 Loper, Clermont D. (Speech).....Charles City  
 Rausenberger, Frantz B. (Manual Arts).....Cedar Falls  
 Slagle, Francis E. (Manual Arts, English).....Cylinder  
 Stoddard, Phil T. (Agriculture, History).....Renwick

## DEPARTMENT CERTIFICATE IN CRITIC TRAINING

Granted only to a student eligible for a degree.

November, 1932

Hanson, Gladys E.....Cedar Falls  
 Nelson, Almeda G.....Cherokee

May, 1933

Cahow, Linnie Juanita.....Cedar Falls  
 Charlesworth, Alice Mae.....Williams  
 Hawkins, Hazel J.....Westfield  
 Meyer, Irene Carolyn.....Davenport

August, 1933

Ely, Ruth G.....Webster City

## TWO-YEAR CURRICULA

## Curriculum for Teachers in Nursery School and Kindergarten

March, 1933

Dunn, Frances Leone.....Galesburg, Ill.

May, 1933

Birker, Eileen E.....Vinton  
 Bromley, Flora-Jane.....Austin, Minn.  
 Clancy, Gladys Cecelia.....Charles City  
 Dahl, Bethel M.....Lowell, Ind.  
 Davis, Armina Belle.....Cedar Rapids  
 Dickinson, Hazel Mabel.....Sabula  
 Ervine, Isabel Matilda.....Perry  
 Hoepner, Alyce Margaret.....Waterloo  
 Hornby, Virginia Mae.....Sioux Falls, S. Dak.  
 Jave, Irene.....Elk Horn

Kissinger, Mildred.....	Knoxville
MacKay, Violet Audrey.....	Waterloo
Medin, Marjorie.....	Sioux Falls, S. Dak.
Prusia, Mabel Joy.....	Mason City
Ross, Margaret Mary.....	Grinnell
Thomson, Margaret P.....	Moline, Ill.
Vinding, Verna Elinor.....	Cedar Falls

## August, 1933

Curran, Grace A.....	Mason City
Rivers, G. Genevieve.....	Grinnell

## Curriculum for Teachers in Primary Grades

## November, 1932

Coombs, Olive L.....	Aurelia
Dorsey, Marjorie.....	Osage

## March, 1933

Brooks, Miriam Carolyn.....	Cleghorn
Clutter, Doris Vivian.....	What Cheer
Hawkins, E. Hope.....	Mason City
Hill, Winifred Jane.....	Cherokee
Hinshaw, Corrinne.....	Spirit Lake
Lewis, Mary Jane.....	Lakota
Martin, Fern.....	Plano
Miller, Irene J.....	Brooklyn
Moon, Fannie E.....	New Providence
Palmer, Ferne L.....	Renwick
Stelzmilller, Mildred E.....	Elgin
Telecky, Vlasta.....	Ely
Worley, Ione C.....	Cedar Falls

## May, 1933

Attig, Edith L.....	Sibley
Baker, Mildred Alice.....	Clear Lake
Blesie, Esther B.....	Renwick
Broughton, Margaret V.....	Sibley
Campbell, Lucille M.....	Botna
Cole, Ella.....	Cedar Falls
Cooper, Julia O.....	Centerville
Cremer, Edith H.....	Agency
Daniels, Margaret F.....	Douds
Davis, Beryl.....	Glenwood
Dearchs, Esther L.....	Algona
Drew, Dorothy Aileen.....	Cedar Rapids
Ellerbrock, Maxine.....	Auburn
Fobes, Arwilda Viva.....	Clarion
Freburg, Edythe.....	Augusta
Good, Lela Grace.....	Bloomfield
Grier, Alta May.....	Hartwick
Hanson, Rena Louise.....	Essex
Harris, Pauline E.....	Atlantic
Hartshorn, Jane Harriet.....	Traer
Heath, Ethel.....	Shellsburg
Illian, Marguerite Veronica.....	Janesville
Johnson, Louise B.....	Pomeroy
Kerr, Doris Lucille.....	Aurora
Lacey, Louise.....	Sioux Falls, S. Dak.
Laird, Helen F.....	Beaconsfield
Lang, Vione Mildred.....	Remsen
Latchaw, Marjorie E.....	Wilton
Marquesen, Altha I.....	Cedar Falls
Maurer, Rose Marie.....	Lester
Misbach, Dorothy Lois.....	Williamsburg
Mitchell, Marjorie Harriet.....	New Hampton
Moen, Gertrude Theodora.....	Decorah
Montgomery, Irene W.....	Cedar Falls
Moore, Freeda Leota.....	Thornburg
McCrary, Jeannette Esther.....	Ireton
McLaughlin, Mary Florence.....	Schaller
Nafke, Lucile Clara.....	Farnhamville
Newlin, Gwendolyn Ruth.....	Marion



Nicholson, Isabel	Lovilia
Parrett, Margaret E.	Batavia
Petersen, Vera	Dike
Peterson, Florence B.	Rolfe
Poller, Florence M.	Alta
Preston, Joyce	Strawberry Point
Raymond, Dorothy M.	Wapello
Richardson, Faye Iola	Alpha
Scholz, Heleen	Guttenberg
Soothorn, Meriem	Sutherland
Sebert, Laura Rae	Guthrie
Smith, Emma	Osceola
Soenke, Florence E. C.	Stockton
Thompson, Gertrude	Eagle Grove
Thompson, June Arlene	Northwood
Vaala, Ruth Dagne	New Hampton
Vanderburg, Sebieann	Hospers
Vaughan, Eleanor Beatrice	Colfax
Vieth, Lenore Louise	Grinnell
Watkins, Winifred	Gilmore City
Wiley, Alice Louise	Center Point
Wilson, Dorothy Jane	Adel

## August, 1933

Booth, Estella May	Harlan
Clark, Gladys A.	Winterset
Clendennen, Nettie Edith	Earlville
Davis, Daisy Dee	Davenport
Doore, Kathryn M.	Marble Rock
Dowd, Agnes M.	State Center
Ellison, Faythe Maxine	Fredericksburg
Flora, Velma Doris	Melbourne
Gage, Lyola K.	Lester
Galbraith, Josephine R.	Keswick
Harley, Vogel Schell	Fayette
Hood, Evlyn	Independence
Hoover, Norva Veta	Eldora
Imboden, Ona Eleanor	Earlham
Lawson, Elizabeth Winifred	Olin
Leinen, Audrey Lenoir	Mechanicsville
Lorber, Irene M.	Oran
Murdock, Vesta M.	Wilton Junction
Neal, Dixie I.	Cedar Falls
Niedt, Mrs. Mary Agnes	Murray
Nugent, Minnie Isabelle	Montgomery
Peterson, Margaret K.	Linn Grove
Rolling, Armella Helen	Bellevue
Skewes, Doreen	Burlington
Skola, H. Beatrice	Slater
Smith, Leona May	Algona
Sodergren, Esther Blanche	Olds
Stevenson, Florence Christine	Bronson
Stevenson, Leila Bernice	Vinton
Voss, Lillian Victoria	Clinton
Ward, Berneta Mae	Ames
Wieck, Mildred Juliana	Grand Mound
Williams, Rosalie	Denver
Wilson, Pauline L.	Garrison
Wood, Esther P.	Le Mars

## Curriculum for Teachers in Grades above the Primary

November, 1932

Axmeear, Dorothy Jaunita	Delta
Edgar, Meta I.	Arthur
Kendall, Chelsea I.	Traer
Mennig, Rose	Davenport
McKeigh, Tressa A.	Lohrville
Pohl, Berniece E.	Council Bluffs
Russell, Erma L.	Nashua

## March, 1933

Bane, Doris	Oakland
Bishop, Margie Arlene	Elliott
Brunkhorst, Margaret	Lamont
Damborg, Harriett Dorothea	Rolfe
Davis, Mabel Irene	Charlton
Durst, Olive Orient	Danbury
Flynn, Geneva Marie	Boone
Gissel, Vivian E.	Independence
Harbaugh, Alice G.	Muscatine
Link, Floyd L.	Benton
Morgan, Violet Thelma	Orient
Siverly, Winnifred	Diagonal
Thomas, Elsie Jeanette	Dayton, Ohio
Tyler, Bonnie L.	Oakland

## May, 1933

Anderson, Clara Lorraine	West Union
Artherholt, Dorothy May	Clarksville
Barrett, Ruth	Leon
Barta, Helen Louise	Swisher
Berglund, Gladys Iona	Elmore, Minn.
Bernatz, Margaret H.	Spillville
Blakesley, Hazel Catherine	Anamosa
Borthwick, Ruth	Coin
Burdick, Opal R.	Ruthven
Carrington, Ruth G.	Woodhull, Ill.
Chambers, Frances E.	Corwith
Christenson, Helen E.	Peterson
Cloud, Lois	Manchester
Cold, Helen L.	Grundy Center
Crawford, Phyllis Eleanor	Quasqueton
Crooks, Rose Jane	Boone
Dahl, Florance Elizabeth	Dubuque
Davis, Avis	Milford
Delbridge, Anna L.	Storm Lake
Dillon, Dorothea O.	Davenport
Dragoo, Sylvia E.	Pierson
Edwards, Hannah Gayle	Columbus Junction
Eide, Beatrice Henrietta	Decorah
Fink, Alice Ethel	Ringsted
Fritzel, Marlys Annette	Grundy Center
Fudge, Opal Mae	Brooks
Gaskell, Ernestine Theresa	Belle Plaine
Gaskell, Thelma Fern	Belle Plaine
Gaunt, Eva G.	Zearing
Geertsema, Richard H.	Parkersburg
Grier, Alma Fay	Hartwick
Hankner, Mildred Pauline	Tripoli
Harrison, Ina L.	Galva
Horvel, Evelyn M.	Lake Mills
Humphrys, Helen	Marshalltown
Hunter, Thelma B.	Drakesville
Jackson, Gereld L.	Iowa Falls
Kepple, John Harlan	Nashua
Kernan, Mary Agnes	Belmond
Kurtz, Marie Emma	Dows
Lepley, Gwendolyn Beth	Union
Madison, Ruby M.	Ringsted
Mangold, Helen R.	Ryan
Miller, Hazel	Hubbard
Miller, Margaret A.	Ruthven
Miller, Maurine A.	Whitten
Miller, Maxine M.	Whitten
Morrow, Dean D.	Seymour
Myerly, Dorothy G.	Thornburg
McKinley, Frances	Des Moines
Neel, Virginia E.	Gilmore City
Nieuwenhuis, Iva Salome	Sheldon
Noble, Lois Adeline	Hazleton
Norman, Phyllis Adelaide	Marshalltown
Perry, Hartsel M.	Osceola
Pfundheller, Alma Winifred	Rockford
Phelps, Helen Louise	New Hampton
Phillips, Ruth Ann	Deep River



Ponto, Jean I.	Greene
Pontzius, Lois Evelyn	Mediapolis
Rathman, Dorothy A.	Davenport
Reed, Edith A.	Agency
Reeve, Elizabeth Mae	Cedar Falls
Reints, Elsinia Pauline	Clarksville
Rice, Gertrude E.	Preston
Roben, Wilma C.	Ackley
Robson, Winifred Amber	Cedar Falls
Ross, Marione L.	Buckingham
Schmidt, Margaret A.	Cedar Falls
Sexton, Donna Mary	Sumner
Stanford, Ione	Milton
Steege, Lenore Marie	Fredericksburg
Stickman, Mildred	Plainfield
Stone, Katherine Adell	Cedar Rapids
Swartz, Ruth	Waterloo
Thalman, Anita	Cedar Falls
Thompson, Dora	Shell Rock
Tingle, Mary Louise	Atlantic
Vande Brake, Annabel	Exira
Van Tiger, Lucille Ora	Eldora
Vlotho, Mildred I.	Ireton
Voss, Ethel Irene	Walnut
Waller, Evelyn E.	Garner
Warner, Eleanor A.	Fort Dodge
Webber, Helen Margeurite	Coon Rapids
Wells, Geraldine Ione	Albert Lea, Minn.
West, Margaret G.	Malcom
Wiese, Bertha E.	Eldridge

## August, 1933

Agar, Clarice Lucille	Colfax
Aves, Mae	Groton, S. Dak.
Beeler, Winifred W.	Grinnell
Beirne, Edna Marie	Denison
Bergquist, Margaret A.	Dayton
Bevans, Lloyd E.	Waverly
Bishop, Lois	Elliott
Bistline, Marcella Sybilla	Mason City
Bloom, Sylvia K.	Cresco
Borm, Hazel Irene	Gladbrook
Bunker, Helen T.	Villisca
Bussey, A. Irene	Oskaloosa
Christian, H. Cleo	Nevada
Cosner, Etta Louise	Centerville
Dunne, Agnese Elizabeth	Marion, S. Dak.
Eickelberg, Lorena Elizabeth	Janesville
Ericson, Esther A.	Kensett
Godfrey, Marcella	Le Mars
Handley, Mary Frances	Oelwein
Heimer, Evangeline	Stacyville
Holmes, Opal Thornburg	Harlan
Homan, Elaine C.	Remsen
Howe, Gayle E.	Bedford
Jackson, Vida Elizabeth	Orient
Krekow, Herta Louise	Remsen
Langford, Kathryn	Numa
Lindahl, Tillie M.	Coggon
Lynch, Margaret M.	Waucoma
Manning, Alice E.	Newton
Martin, Sylvia	Little Cedar
Maxwell, Mildred	Woodbine
Megan, Lucille Agnes	Iowa City
Mohr, Gertrude Harriet	Estherville
Paasch, Ruth	Perry
Peelen, Mattie	Sanborn
Reidel, Alice Mildred	Mundelein, Ill.
Reynoldson, Florence M.	Madrid
Rohrbaugh, Andrew W., Jr.	Seymour
Schrody, Mary Helen	Cedar Falls
Seddon, Shiela	Mystic
Sime, Evelyn Lenore	Northwood
Sims, Nina Mae	Hartley
Stanfield, Nelle P.	Waterloo
Steffen, Alice Louise	Eldon

Stuart, Faye.....	Chariton
Turnquist, Esther E.....	Alta
Watts, Sarah Merle.....	Barnes City
Wingert, Margaret R.....	Raymond

### Curriculum for Teachers in Consolidated Schools

March, 1933

Hale, Twila E.....	Conrad
Miller, Marcella G.....	Greeley

May, 1933

Dakins, Bernadine.....	Zearing
Harwood, Hilary Joy.....	Woodhull, Ill.
Morrison, C. Marie.....	Douds
Ricketts, Ilene M.....	Zearing
Saunders, Leanna Irene.....	Brighton
Spafford, Beth Marian.....	Waterloo

August, 1933

Anderson, Ansel M.....	Stratford
Follmann, Vera.....	Bridgewater
Marshall, Grace Fern.....	Woolstock
Pardee, Mildred Maxine.....	Volga
Rafferty, Irene C. P.....	Clermont
Shoemaker, Alice I.....	Bronson
Swanson, Daisy.....	Stanton
Trindle, Eva.....	Allison
von Oven, Helen.....	Fulton, Ill.
Wyckoff, Leone.....	Cedar Rapids

### Curriculum for Teachers of Commercial Subjects

November, 1932

Robinson, Edna Esther.....	Colo
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### Curriculum for Teachers of Voice

May, 1933

Latta, Ruth.....	Cedar Falls
Miller, Marguerite Louise.....	Cascade

### Curriculum for Teachers of Violin

May, 1933

Warner, Robert Austin.....	Parkersburg
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## ONE-YEAR CURRICULUM

### Curriculum for Teachers in Rural Schools

March, 1933

Bell, Dorothy H.....	Blairsburg
Hansen, Margaret.....	Austin, Minn.
Jahde, Phyllis Margaret.....	Bronson
Madison, Pearl.....	Goldfield
Reed, Bertha.....	Springville
Schoenbohm, Dorothy H.....	Denver
Sortor, Leta Estella.....	Cedar Rapids

May, 1933

Adamson, Martha Jane.....	Ankeny
Bishop, Evelyn Mae.....	Nora Springs
Blankenhorn, Martha Rosina.....	Columbus Junction
Brewer, Rosemary M.....	Tripoli



Cannon, Marie.....	Washington
Carr, Fern L.....	Alexander
Caslavka, Adaline M.....	Clutier
DeSpain, James L.....	Marengo
Durant, Dorothy E.....	Nora Springs
Edgar, Geraldine W.....	Rock Falls
Erdman, Arlene.....	Hedrick
Foss, Henrietta Valborg.....	Thor
Fuller, Elaine Iris.....	Shell Rock
Galagan, Mary Ellen.....	Rockwell
Gullixson, Lois V.....	Bode
Halverson, Myrtle Genevieve.....	Decorah
Hartz, Helen R.....	La Porte City
Heinen, Irene C.....	Cherokee
Irvine, Kathryn Marion.....	Dysart
Jacobson, Ruth L.....	Floyd
Johnson, Lucille F.....	Mason City
Lee, Olga.....	Ossian
Lotvedt, Esther.....	Ossian
Lowe, Alice Louise.....	Letts
McElhinney, Bertha Lucille.....	Morning Sun
Oster, Theo Adlyne.....	Cedar Falls
Patterson, Norma Lorraine.....	Runnells
Pieracci, Rosalie J.....	Ankeny
Primrose, Thelma Elizabeth.....	Grundy Center
Radig, Helen.....	Lone Rock
Reilly, Margaret A.....	Ames
Shafer, Lovina.....	Kinross
Smith, Helen L.....	Malcom
Smith, L. Margaretta.....	Nora Springs
Steinhauer, Arlene.....	West Side
Sudenga, Georgia M.....	George
Sumpter, John D.....	Riceville
Volberding, Edward F.....	Dike
Willoughby, Ruby Fern.....	Cedar Falls

## August, 1933

Aden, Leona.....	Palmer
Anthony, Marjorie Kathleen.....	Adelphi
Brand, Margaret A.....	Somers
Brock, Reba M.....	Green Mountain
Bryant, Everett H.....	Corydon
Clarke, Phyllis Janet.....	Whitten
Hansen, Viola Marie.....	Emmetsburg
Kieswetter, Clara.....	Haverhill
Ludwig, Mary Jean.....	West Bend
Van De Water, Bernice.....	Ireton

## SUMMARY OF ATTENDANCE

JUNE 1, 1932 TO MAY 29, 1933

## CLASSES OF STUDENTS

	Men	Women	Total
Students with baccalaureate degrees on degree curricula.....	36	34	70
Undergraduate students on degree curricula			
Seniors .....	182	288	470
Juniors .....	159	406	565
Sophomores .....	158	143	301
Freshmen .....	165	155	320
Total on degree curricula.....	700	1026	1726
Students on two-year and three-year curricula			
Third-year students			
Curriculum for teachers of public school music.....	1	2	3
Second-year students			
Curriculum for teachers in nursery school and kindergarten .....	....	23	23
Curriculum for teachers in primary grades.....	....	175	175
Curriculum for teachers in grades above the primary....	21	269	290
Curriculum for teachers in consolidated schools.....	5	60	65
Curriculum for teachers of commercial subjects.....	1	2	3
Curriculum for teachers of home economics.....	....	7	7
Curriculum for teachers of manual arts.....	2	....	2
First-year students			
Curriculum for teachers in nursery school and kindergarten .....	....	18	18
Curriculum for teachers in primary grades.....	....	199	199
Curriculum for teachers in grades above the primary....	9	309	318
Curriculum for teachers in rural and consolidated schools .....	16	145	161
Total on three-year and two-year curricula.....	55	1209	1264
Students registered for twelve weeks of normal training and not on a curriculum.....	42	366	408
Special music students not on a curriculum.....	13	25	38
Special Students .....	1	17	18
Special music students past 16 years of age and not high-school graduates .....	2	4	6
Visitors .....	2	37	39
Total in residence.....	815	2684	3499
Students in extension work			
Extension class work.....	12	39	51
Correspondence work .....	46	163	209
Total in extension work exclusive of duplicates.....	56	200	256
Grand total exclusive of duplicates and of pupils in the training school.....	838	2786	3624

## ATTENDANCE BY TERMS

	Men	Women	Total
Summer term, 1932			
Cedar Falls .....	319	1418	1737
Creston .....	15	202	217
Total for summer term.....	334	1620	1954
Fall term .....	474	1088	1562
Winter term .....	498	1054	1552
Spring term .....	448	946	1394
Total for the fall, winter, and spring terms exclusive of duplicates.....	583	1274	1857
Total in residence exclusive of duplicates and of pupils in the training school.....	815	2684	3499



PUPILS IN THE TRAINING SCHOOL AND IN AFFILIATED SCHOOLS

	Boys	Girls	Total
Campus training school.....	176	175	351
Affiliated schools in classes taught by students			
Cedar Heights			
Kindergarten .....	4	4	8
Cherokee			
Primary grades .....	131	111	242
Intermediate grades .....	60	51	111
Hudson			
Primary grades .....	31	26	57
Intermediate and upper grades.....	88	88	176
Mason City			
Primary grades .....	23	21	44
Shenandoah			
Intermediate grades .....	27	17	44
Waterloo, East			
Primary grades .....	32	33	65
Intermediate grades .....	60	91	151
Waterloo, West			
Primary grades .....	106	64	170
Intermediate grades .....	109	108	217
Junior high school.....	137	111	248
Rural demonstration schools.....	30	49	79
<b>Total in training schools.....</b>	<b>1014</b>	<b>949</b>	<b>1963</b>

ATTENDANCE BY TERMS

Year	Boys	Girls	Total
1921	1014	949	1963
1922	1014	949	1963
1923	1014	949	1963
1924	1014	949	1963
1925	1014	949	1963
1926	1014	949	1963
1927	1014	949	1963
1928	1014	949	1963
1929	1014	949	1963
1930	1014	949	1963

# INDEX

	Page		Page
Absences .....	34	Clerical division.....	17
Accredited rooming houses.....	29	College dormitories.....	26, 29
Admission to curricula.....	32	Commercial education	
Advanced standing.....	33	courses in.....	69
Advisers.....	22, 33	major in.....	69
Agriculture		special curriculum.....	45
courses in.....	77	Committees, faculty.....	20
major in.....	77	Commons .....	26
special curriculum.....	44	Correspondence work.....	102
Amount of work.....	33	County certificates.....	36
Applied Music, credit in.....	73, 79	Courses of instruction.....	51
Art		Credit, acceptance of.....	33
courses in.....	51	Critic training.....	98
major in.....	51	Curricula .....	37
Assistants .....	17	Deficiencies, entrance.....	32
Attendance, summary of.....	117	Degree curricula organized for	
Baccalaureate degree, second.....	43	special subjects.....	44
Bachelor of Arts.....	43	Degree curriculum organized for	
Bachelor of Science.....	43	major subjects.....	43
Bachelor of Science in Agriculture.....	44	Degree, second baccalaureate.....	43
Bachelor of Science in		Department certificate in critic training	97
Commercial Education.....	45	Departmental clubs.....	30
Bachelor of Science in		Dining rooms.....	26, 29
Home Economics.....	45	Dormitories for women.....	26, 29
Bachelor of Science in Manual Arts.....	46	Earth Science	
Bachelor of Science in Music.....	47	courses in.....	76
Bachelor of Science in		major in.....	75
Opportunity Room Education.....	47	Economics, courses in.....	95
Bachelor of Science in		Economics and sociology	
Orchestral and Band Music.....	48	courses in.....	95
Bachelor of Science in		major in.....	95
Physical Education		Education, courses in.....	56
Requirements for men.....	49	Elementary education	
Requirements for women.....	49	major in.....	55
Band practice as a substitute for		two-year curriculum.....	39
physical education.....	35	Employment of students.....	30
Bartlett Hall.....	26, 29	English	
Bartlett Hall and Commons staff.....	17	courses in.....	59
Biological science		major in.....	59
courses in.....	74	Enrollment and registration.....	27
major in.....	74	Enrollment days.....	27
minor in.....	74	Entrance deficiencies.....	32
Board of Education, State.....	6	Entrance requirements.....	32
Branch summer school.....	16	Entrance subjects.....	32
Buildings and grounds.....	24	Examinations for certificates.....	36
Bureau, Placement.....	31	Excusing officers.....	22
Cafeteria .....	29	Expenses .....	27
Calendar, college.....	5	Extension class work.....	99
Certificate requirements.....	36	Extension service.....	99
Certificates, teachers.....	36	Extra-curricular activities .....	31
Chemistry		Faculty .....	8
courses in.....	87	Faculty committees.....	20
major in.....	86		



	Page		Page
Fees .....	27	Music	
Four-year curricula .....	41	courses in.....	71
French		major in.....	71
courses in.....	90	minor in.....	71
major in.....	90	special curriculum.....	47
General information.....	24	Music organizations.....	31
General regulations.....	32	Natural science, courses in.....	74
General Science.....	74, 85, 86	Normal training, twelve weeks of.....	36
German, courses in.....	66	Nursery school and kindergarten	
Government		education	
courses in.....	94	major in.....	55
major in.....	94	two-year curriculum.....	37
Grade points.....	34	Officers of administration.....	7
Graduates, list of.....	106	Officers of instruction.....	8
Graduation		Opportunity room education	
application for.....	35	special curriculum.....	47
general requirements for.....	35	Orchestral and band music	
Greek, courses in.....	66	major in.....	78
Historical sketch.....	24	special curriculum.....	48
History		Orchestral music, courses in.....	78
courses in.....	93	Physical education, requirements in.....	34
major in.....	93	Physical education for men	
minor in.....	93	courses in.....	80
Home economics		major in.....	80
courses in.....	62	minor in.....	80
major in.....	62	special curriculum.....	49
special curriculum.....	45	Physical education for women	
Honor organizations.....	30	courses in.....	82
Hospital.....	26	major in.....	82
Kindergarten education		minor in.....	82
major in.....	55	special curriculum.....	49
two-year curriculum.....	37	Physics	
Latin		courses in.....	85
courses in.....	64	major in.....	84
major in.....	64	Placement Bureau.....	31
minor in.....	64	Placement tests.....	27
Library.....	25	Primary education	
Library staff.....	17	major in.....	55
Literary societies.....	31	two-year curriculum.....	38
Major, definition of.....	41	Psychology	
Majors, list of.....	41	courses in.....	54
Making up of work.....	34	minor in.....	42
Manual arts		Publications, student.....	31
courses in.....	53	Recreation Park.....	27
major in.....	53	Registration.....	27
special curriculum.....	46	Religious education, courses in.....	89
Marking system.....	34	Religious organizations.....	31
Marks and grade points.....	34	Requirements for graduation, general..	34
Mathematics		Residence requirement for graduation..	34
courses in.....	67	Romance languages, courses in.....	90
major in.....	67	Room and board.....	26, 29
Matriculation fee.....	27	Rooming houses.....	29
Medical service.....	28	Scholarship regulations.....	33
Minor, definition of.....	42	Scholarships.....	29
Minors.....	42	Social science, courses in.....	93
		Sociology, courses in.....	96

Spanish		Table of contents.....	3
courses in.....	91	Teachers certificates.....	36
major in.....	91	Teaching and critic training	
Special students.....	32	major in.....	97
Speech, courses in.....	61	Teaching, courses in.....	97
State Board of Education.....	6	Tests, placement.....	27
State certificates.....	36	Training School.....	25, 118
Student council.....	30	Two-year curricula.....	37
Student organizations.....	30	Tuition including the college fee.....	27
Student Publishing Association.....	31	Visitors .....	28
Student publications.....	31	Withdrawal from the college.....	28
Summary of attendance.....	117	Women's League.....	30



