

1-1935

College Catalog 1934-1935

Iowa State Teachers College

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BULLETIN

OF THE

Iowa State Teachers College

CEDAR FALLS, IOWA

CATALOG
1934-35
INCLUDING ANNOUNCEMENTS FOR 1935-36

Volume XXXVI, Number 1
January, 1935

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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COLLEGE CALENDAR FOR 1935-36

Summer Term, 1935—Twelve Weeks

1935

- 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 —Registration of First-Year Students, 8:00 a.m. to 5:00 p.m. (All first-year students and students enrolling at this institution for the first time must report at the auditorium promptly at 8:00 a.m.)
Sept. 10, Tuesday —Registration of Upper Classmen, 7:30 a.m. to 4:30 p.m.
Sept. 11, Wednesday—Instruction begins, 8:00 a.m.
Nov. 26, Tuesday —Graduating Exercises, 7:30 p.m.
Nov. 27, Wednesday—Term ends, 12:00 noon

Winter Term, 1935-36—Twelve Weeks

- Dec. 2, Monday —Registration, 8:00 a.m. to 5:00 p.m.
Dec. 3, Tuesday —Instruction begins, 8:00 a.m.
Dec. 20, Friday —Holiday Recess, 5:00 p.m.
1936
Jan. 6, Monday —Instruction resumes, 8:00 a.m.
March 5, Thursday —Graduating Exercises, 7:30 p.m.
March 6, Friday —Term ends, 12:00 noon

Spring Term, 1936—Twelve Weeks

- March 9, Monday —Registration, 8:00 a.m. to 5:00 p.m.
March 10, Tuesday —Instruction begins, 8:00 a.m.
June 1, Monday —Fifty-ninth Annual Commencement. Term ends, 12:00 noon

Summer Term, 1936—Twelve Weeks

- June 3, Wednesday—Registration, 7:00 a.m. to 5:00 p.m.
June 4, Thursday —Instruction begins, 7:30 a.m.
Aug. 20, Thursday —Graduating Exercises, 7:30 p.m.
Aug. 21, Friday —Term ends, 12:00 noon

Fall Term, 1936—Twelve Weeks

- Sept. 7, 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, 1934-35

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)

JOSEPH B. PAUL, B.A., Indiana University, 1911; M.A., University of Wisconsin, 1914; Ph.D., 1931
Director of the Bureau of Research, 1916 (1934)

BENJAMIN BOARDMAN, B.Ph., State University of Iowa, 1901
Financial Secretary, 1917

ALBERT C. FULLER, B.A., State University of Iowa, 1911
Director of the Bureau of Alumni Affairs and Public School Relationships, 1917 (1934)

E. W. GOETCH, B.A., State University of Iowa, 1910; M.A., 1920; Ph.D., 1925
Director of the Placement Bureau, 1918 (1928)

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)

M. J. NELSON, B.A., Luther College, 1916; M.A., University of Wisconsin, 1924; Ph.D., 1928
Dean of the Faculty, 1924 (1934)

SADIE B. CAMPBELL, B.A., Colorado State Teachers College, 1919; M.A., Columbia University, 1925
Dean of Women, 1929

GEORGE H. HOLMES, B.A., University of Michigan, 1925; M.A., 1926
Director of the Publicity Bureau, 1929

ELDON E. COLE, B.S., Iowa State College, 1921
Superintendent of Buildings and Grounds, 1930 (1931)

HAROLD A. BOSLEY, B.A., Nebraska Wesleyan University, 1930; B.D., University of Chicago, 1932; Ph.D., 1933
Director of Religious Activities, 1934

* 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
Professor of Art, 1895 (1934)
- 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

- E. C. DENNY, B.A., Indiana University, 1915; M.A., University of Chicago, 1916; Ph.D., State University of Iowa, 1932
Professor of Education and Head of the Department, 1923 (1934)
- 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)
- JOHN R. SLACKS, B.Ph., University of Chicago, 1930; M.A., 1930
Associate Professor of Rural Education, 1918 (1932)
- 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)
- M. J. WILCOX, B.S., Cornell College, 1914; M.A., State University of Iowa, 1917; Ph.D., 1932
Assistant Professor of Education, 1923 (1932)

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

- 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)
- FLOYD W. LAMBERTSON, B.A., Albion College, 1914; M.A., Northwestern University, 1922; Ph.D., State University of Iowa, 1930
Professor of Public Speaking, 1930 (1934)
- H. DARKES ALBRIGHT, B.A., Lebanon Valley College, 1928; M.A., Cornell University, 1931
Instructor in English, 1934

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)

Languages

- INGEBRIGT LILLEHEI, B.A., University of Minnesota, 1908; M.A., 1909; Ph.D., University of Illinois, 1914
Professor of French and Spanish and Head of the Department, 1918 (1934)

- FRANK IVAN MERCHANT, B.A., Shurtleff College, 1880; M.A., Ph.D., University of Berlin, 1890
Professor of Latin and Greek, 1907
- ISABEL THOMES, B.A., University of Kansas, 1912; M.A., University of Michigan, 1924
Associate Professor of Spanish and French, 1918 (1932)
- HOMER C. HADDOX, B.A., Ohio State University, 1913; M.A., 1917
Assistant Professor of French and Spanish, 1923
- 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, 1926 (1933)
- PHILIP W. HARSH, B.A., University of Chicago, 1928; M.A., 1930; Ph.D., 1933
Instructor in Latin, 1934

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

- 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 (1934)
- 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; M.Mus., De Paul University, 1934
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
- 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
- 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
- O. LINCOLN IGOU, B.A., Hiram College, 1929; B.Mus., Northwestern University, 1930; M.S., 1933
Instructor in Brass Instruments, 1934

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, 1913; M.A., 1914; Ph.D., 1925
Professor of Biology, 1921 (1933)
- WINIFRED M. GILBERT, B.S., Iowa State College, 1918; M.S., 1921
Assistant Professor of Biology, 1926 (1928)

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

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

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

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
Associate Professor of History, 1929 (1934)
- MARSHALL R. BEARD, B.A., Marion College, 1925; M.A., University of Wisconsin, 1928; Ph.D., 1930
Assistant Professor of History, 1930 (1934)
- ROBERT W. HARBESON, B.A., Western Reserve University, 1925; M.A., Harvard University, 1926; Ph.D., 1931
Assistant Professor of Economics, 1931 (1934)
- LELAND L. SAGE, B.A., Vanderbilt University, 1922; M.A., University of Illinois, 1928; Ph.D., 1932
Assistant Professor of History, 1932 (1934)

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
Assistant Professor of Teaching, 1920 (1934)
- 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.Mus., 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
Associate Professor of Teaching and High School Principal, 1924 (1934)
- 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
- 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 OFFER, 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
- 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
- MAE RUPPEL, B.A., Carthage College, 1921; M.A., Columbia University, 1932
Instructor in Teaching, 1934
- GRACIA A. ROBINSON, B.Mus., Northwestern University, 1931; M.Mus., 1934
Instructor in Teaching, 1934

Extension Division

- IRVING H. HART, B.A., Grinnell College, 1898
Director of the Extension Division, 1914 (1916)
- C. A. FULLERTON, B.Di., Iowa State Teachers College, 1889; B. S., 1890; M.Mus., Chicago Musical College, 1931
Professor of Music, 1897
- 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

† On leave of absence.

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

HOWLAND HANSON, B.A., Princeton University, 1892; D.D., Des Moines University, 1927

Professor of Religious Education, 1928

BRANCH SUMMER SCHOOL, 1934 AT CORNING

A. C. FULLER, B.A., Director
Education

FRED D. CRAM, M.A.
Social Science

ETHEL FITZSIMONS, M.A.
English

F. E. FULLER, B.A.
Natural Science
Education

H. C. MOELLER, B.A.
Education

E. L. RITTER, Ph.D.
Education

LOU A. SHEPHERD, M.A.
Education

MINNIE E. STARR, M.S.
Music

EULALIE TURNER, M.A.
Natural Science
Industrial Arts

OTHER OFFICERS AND ASSISTANTS

Library Staff

ANNE STUART DUNCAN, B.L., University of Michigan, 1897; Library Certificate, University of Chicago, 1903
Head Librarian, 1918

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

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)

VERONICA O'BRIEN, B.S., University of Minnesota, 1931; B.M., 1933; M.D., 1934
Health Director of Bartlett Hall, 1934

JANET C. WORKS, B.Ph., University of Chicago, 1931

Social Director of the Commons, 1934

MARGARET E. MARTIN, B.A., Smith College, 1933; M.A., Columbia University, 1934

Personnel Assistant, 1934

VIRGINIA F. HAMMILL, B.S., Iowa State Teachers College, 1934

Secretary, 1934

Clerical Division

ANNA R. WILD

Supervisor, 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

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

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

Stenographer, Office of the Dean of the Faculty, 1928 (1934)

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

Secretary, 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 President, 1930 (1934)

ELIZABETH W. DAVIS

Stenographer, Multigraph Department, 1930

MRS. BERNICE DEBOWER

Secretary, Department of Teaching, 1930

MRS. LORETTA BREWER

Secretary, Department of Music, 1930 (1934)

MABLE TAYLOR, B.S., Iowa State Teachers College, 1932

Secretary, Placement Bureau, 1932

HELEN A. BARBER, B.S., Iowa State Teachers College, 1933

Secretary, Bureau of Alumni Affairs and Public School Relationships, 1934

A. MADELYN BERGSTROM, B.S., Iowa State Teachers College, 1934

Secretary, Bureau of Research, 1934

HELEN COWIE, B.A., Iowa State Teachers College, 1931

Secretary to the Dean of the Faculty, 1934

LILLIAN P. DRESSER, B.A., Iowa State Teachers College, 1929

Secretary and Pianist, Department of Physical Education for Women, 1934

HELGA FALKENBERG

Bookkeeper, Office of the Financial Secretary, 1934

MARJORIE MACE, B.A., Iowa State Teachers College, 1934

Stenographer, Office of the Dean of Women, 1934

M. GENEVA NAY, B.S., Iowa State Teachers College, 1931

Secretary, Department of Education, 1934

BEULAH NUNAMAKER, B.A., Iowa State Teachers College, 1929

Clerk, General College Office, 1934

ESTHER BLEY, B.A., Iowa State Teachers College, 1933

Accompanist and Librarian, Department of Music, 1934

FACULTY COMMITTEES, 1934-35

I. Rotating Committees

(Chairman's name first)

- | | |
|--|---|
| 1. Curricula
1. Dean of the Faculty,
ex officio
2. S. A. Lynch
3. E. J. Cable
4. Ira S. Condit
5. Beatrice Geiger | 3. Student Loan Fund
1. J. W. Charles
2. Katherine Buxbaum
3. R. R. Fahrney
4. Dean of Women, ex of-
ficio
5. Dean of Men, ex officio
6. Financial Secretary, ex of-
ficio |
| 2. Student Welfare
1. Dean of Women, ex
officio
2. Dean of Men, Secretary,
ex officio
3. Selina Terry
4. H. A. Riebe
5. Carl H. Erbe | 4. Interpretation of Faculty
 Regulations
1. Louis Begeman
2. I. H. Hart
3. Eva May Luse
4. C. S. Cory, Secretary, ex
officio |

II. Standing Committees

(Chairman's name first)

- | | |
|---|---|
| 1. Athletic Board
1. H. Earl Rath
2. S. A. Lynch
3. W. H. Kadesch
4. E. C. Denny
5. C. H. Erbe
6. Financial Secretary, ex
officio
7. Director of Athletics,
Secretary, ex officio | 4. Board of Health
1. Health Director
2. Dean of the Faculty
3. Dean of Women
4. Dean of Men
5. Head of Department of
Physical Education
for Women
6. Head of Department of
Physical Education
for Men
7. Health Supervisor of
Bartlett Hall |
| 2. Commencements
1. H. A. Riebe
2. F. W. Lambertson
3. Luther A. Richman
4. Mrs. Iris Branagan
5. Sadie B. Campbell
6. Leslie I. Reed
7. Benjamin Boardman
8. R. W. Harbeson
9. M. J. Nelson. | 5. Board in Control of Student
 Publications
1. Geo. H. Holmes
2. Selina M. Terry
3. H. Earl Rath
4. Benjamin Boardman |
| 3. Student Efficiency
1. Dean of the Faculty, ex
officio
2. Dean of Men, ex officio
3. Dean of Women, ex
officio
4. Eva May Luse
5. Alison E. Aitchison
6. W. H. Kadesch
7. R. R. Fahrney | 6. Recreation Park
1. C. S. Cory
2. C. H. Bailey
3. J. W. Charles
4. L. L. Mendenhall
5. Monica R. Wild |
| | 7. Special Memorial Days
1. I. H. Hart
2. F. W. Lambertson
3. Geo. R. Mach |
| | 8. Editing of Faculty Rules and
 Regulations
1. I. H. Hart
2. C. S. Cory
3. N. O. Halvorson |

III. Student Advisory Committees

(Chairman's name first)

1. **Freshmen who have not chosen a major**
 1. E. O. Finkenbinder
 2. H. S. Buffum
 3. A. E. Brown
2. **Elementary Education**
 1. H. A. Riebe
 2. C. O. Todd
 3. M. J. Wilcox
 4. D. P. Phillips
 5. J. W. Charles
3. **Primary Education**
 1. May Smith
 2. E. Grace Rait
 3. Amy F. Arey
 4. Bernice Bryan
 5. Olive Paine
4. **Normal Training and Special Students**
 1. Mary B. Hunter
 2. Emma Lambert
 3. Ida C. Rohlf
 4. The Registrar
5. **Nursery School and Kindergarten Education**—Elisabeth Brugger and Dorothy Koehring
6. **Rural Education**—John R. Slacks
7. **Major Studies**
 - (1) Education—E. C. Denny
 - (2) Teaching and Critic Training—Eva May Luse
 - (3) English and Public Speaking—S. A. Lynch
 - (4) Mathematics—I. S. Condit
 - (5) Commercial Education—I. S. Condit
 - (6) Languages—Latin, German, French, and Spanish—I. L. Lil-lehei
 - (7) Social Science—History, Government, and Economics—M. R. Thompson
 - (8) Home Economics—Beatrice J. Geiger
 - (9) Natural Science—Agriculture, Biological Science, and Earth Science—E. J. Cable
 - (10) Physical Science—Physics and Chemistry—Louis Begeman
 - (11) Art—C. H. Bailey
 - (12) Manual Arts—C. H. Bailey
 - (13) Physical Education for Men—Coaching and Athletics—L. L. Mendenhall
 - (14) Physical Education for Women—Monica R. Wild
 - (15) Music—Public School Music and Orchestral and Band Music—Edward Kurtz

IV. Excusing Officers

1. For late enrollment of all students—Dean of the Faculty, M. J. Nelson
2. For other absences
 - a. For men students—Dean of Men, Leslie I. Reed
 - b. For women students—Dean of Women, Sadie B. Campbell

V. Committees for Special Events

(Chairman's name first)

1. Freshman Registration Day (September 10, 1934)

1. M. J. Nelson
2. Sadie B. Campbell
3. Leslie I. Reed
4. J. B. Paul
5. Anne Stuart Duncan

2. Boy Scout Day (October 6, 1934)

1. Hugh S. Buffum
2. J. W. Charles
3. L. L. Mendenhall
4. Geo. H. Holmes
5. Benjamin Boardman

3. Dad's Day (October 27, 1934)

1. Leslie I. Reed
2. Sadie B. Campbell
3. Ira S. Condit
4. Mary B. Hunter
5. F. W. Lambertson
6. Harold G. Palmer
7. Paul F. Bender

4. Alumni Dinner at Des Moines (November 1, 1934)

1. A. C. Fuller
2. Leslie I. Reed
3. Alison E. Aitchison
4. Louise Hearst
5. Olive Barker
6. Fred D. Cram
7. Monica R. Wild

5. Homecoming (November 10, 1934)

1. Leslie I. Reed
2. Sadie B. Campbell
3. L. L. Mendenhall
4. Hazel B. Strayer
5. A. C. Fuller

6. Mother's Day (May 12, 1935)

1. Sadie B. Campbell
2. Leslie I. Reed
3. Monica R. Wild
4. Edward Kurtz

GENERAL INFORMATION

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 as a home for soldiers' orphans. 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 Dean of the Faculty, the Financial Secretary, the Registrar, and the Supervisor of the Clerical Staff, and on the second floor the offices of the Placement Bureau and the Bureau of Research. 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 Bureau of Alumni Affairs and Public School Relationships, 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 Languages, of 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, offices and instruction rooms of the Department of 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 dimension 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 105,771 volumes, 566 current periodicals, 10,646 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, and a putting green.

The College Book Store, situated at the center of the inner quadrangle, was erected in 1904.

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, 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.

A residence, at present unoccupied, which is 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 feet 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 op-

eration 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 to 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.—Standard intelligence and achievement tests are required of each student upon entrance. This applies not only to freshmen but to upper classmen as well. 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. A student's registration is incomplete and for that reason no grades or credit will be recorded for him until all required tests have been taken and the results recorded. Students who fail to take the tests at the regular time will take them at a later time and will pay a fee of \$2 to cover the cost of administration.

Fees

All fees are payable at the office of the Financial Secretary. The matriculation fee, the tuition, and college fee are payable at the

time of enrollment, laboratory and music fees before entrance upon the work of a term, and graduation fees at least three 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.....	\$26
Juniors, seniors, and college graduates (including students who have earned 88 or more hours of credit).....	\$32
Weekly fee for persons enrolled as visitors.....	\$3
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 01 pay a fee of 50 cents a term, \$1 being deposited and 50 cents refunded if locker key and towels are returned.

Music Fees.—All students enrolled in the college and all pupils attending the training school pay a fee of \$10 per term for one thirty-minute lesson each week. Persons not enrolled in the college or the training school pay a fee of \$15 per term for one thirty-minute lesson each week. A fee of \$1.50 each is charged for any number of thirty-minute lessons less than a full term's work of twelve lessons. Rent for auditorium or studio organ is \$3 a term. Practice pianos 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, the student center, 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 cancelled 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 1935, Tuesday at 9:00 a. m. June 4; for the fall term of 1935, Saturday noon, September 7; for the winter term of 1935-36, Saturday noon, November 30, 1935; for the spring term of 1936, Saturday noon, March 8; for the summer term of 1936, Tuesday at 9:00 a. m., June 3.

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.

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.

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.

Men's Union.—This organization, which was formed in 1934, has as its membership all of the men of the student body. Its work is planned to promote a spirit of coöperation, a feeling of good fellowship, and a solidarity of opinion among the men on the campus.

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, Hamilton Club (English), Ellen Richards Club (Home Economics), Classical Club, Deutscher Verein, Cercle Francais, Mathematics Club, Commercial Club, Biology Club, Chemistry Seminar, Physical Education Club, Women's Athletic Association, and Rho Epsilon Rho, a pep fraternity.

Honor Organizations.—Superior achievement in various lines of educational work is recognized by membership in the following honor

organizations: Kappa Delta Pi (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); Beta Beta Beta (Biology); Pi Gamma Mu (Social Science); Phi Mu Alpha (Music); Shield Club, Orchesis, Red Cross Life Saving Corps (Physical Education for Women); I Club (for men who have won letters in intercollegiate sports); Blue Key (a national honor fraternity for men); and Purple Arrow (local scholastic honor society for first and second year women). A new Home Economics honor organization is in the process of formation.

Music Organizations.—The music department maintains two men's glee clubs, the Minnesingers and Troubadours, and three women's glee clubs, the Cecilians, Bel Cantos, and Euterpeans; the Choral Society, the College Symphony Orchestra, the Orchestra Club, the Theater Orchestra, the College Marching Band, the College Concert Band, and the Women's Band.

Literary Societies.—The Alpha, Shakespearean, Zetaethan, and Delphian literary societies for women give some 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 the Publicity Bureau. 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

Graduates and students who have been in residence for three or more terms are assisted by the Placement Bureau in obtaining teaching positions. Direct service is also given upon request to superintendents and other school officials by recommending qualified candidates and furnishing confidential credentials. Recommendations are based upon estimates of scholarship, teaching ability, personal qualities, and professional growth. While the bureau is not in a position

to guarantee the election of candidates it gives them all the support that is justified by the records and recommendations filed with the bureau. Superintendents and school officials are urged to visit the offices of the bureau when wishing to secure teachers.

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 are required to register but no registration fee is charged if registration is completed within the first six weeks of the term of graduation or prior to that time. Prospective June and August graduates are urged to register during the winter term preceding their graduation.

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 the Dean 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. Conditional admission may be granted upon completion of fourteen units.

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.

* 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.

The work in English should include composition, rhetoric, and literature. It may include journalism, public speaking, and business 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; zoology, 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 Iowa 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 01.

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

*An hour is defined as the equivalent of one prepared recitation a week for a period of twelve weeks.

A student may take a drill course in penmanship, music, or hand-work 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, 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.

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 the Faculty.

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 Dean of the Faculty unless the change was due to a notification of error in registration.

A student is not admitted to a course for credit after the beginning of the fourth week unless he has received credit for the first half of the course.

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 01 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 01 may not be made up for credit.

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

One-tenth of a term hour is deducted by the instructor from the term's credit in the case of each course 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 without the privilege of reinstatement if they do not maintain a satisfactory scholarship record.

GENERAL REQUIREMENTS FOR GRADUATION

Residence and Residence Credit.—To meet the requirements for graduation a student must be in residence 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 01 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 01.

Not less than two terms of Physical Education 01 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 the required work in Physical Education 01 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 01, if the student registers for band practice instead of for Physical Education 01.

A temporary excuse from Physical Education 01 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 01.

Listing of Candidates for Graduation.—A student may be listed as a candidate for graduation at the end of a term if the completion of the work for which he is registered would meet all the requirements for graduation exclusive of grade points, and if the grade points to be earned do not exceed the number which could be earned for the hours for which he is registered.

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.

After the spring term of 1936 a student must earn two times as many grade points as hours of credit earned in residence and by extension work in 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 may be earned 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

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 hours) of credit in Rural School Management (Education 50) 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 at the College Office.

Substitutions for Examinations.—Information concerning the substitution of credit in certain courses for examinations required for county certificates may be obtained at the College Office.

A student who has credit for American Government (Government 132) 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-kindergarten education, kindergarten-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, 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 at the College Office.

CURRICULA

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

Four-Year Curricula: teachers of art, commercial education, English, foreign languages, home economics, manual arts, mathematics, music, physical education, science and social science; opportunity room teachers; critic teachers; supervisors of nursery school and kindergarten, and of primary, intermediate and upper grade work; elementary and secondary school principals.

Two-Year Curricula: teachers in kindergarten-primary grades, teachers in grades above the primary.

One-Year Curriculum: teachers in rural schools.

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 a 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-Kindergarten Education, Kindergarten-Primary Education, Elementary Education

English: English, Speech

Home Economics: Home Economics

Languages: French, German, Latin, Spanish

Mathematics and Commercial Education: Mathematics, Commercial Education

Music: Music, Orchestral and Band Music

Natural Science: Biological Science, Earth Science, Agriculture

Physical Education for Men: Physical Education for Men

Physical Education for Women: Physical Education for Women

Physics and Chemistry: Physics, Chemistry

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-kindergarten education, kindergarten-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 agriculture, art, home economics, manual arts, music, physical education, or speech.

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. Three or more minors are recommended in order that the student may be prepared for teaching in several fields.

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 biblical literature and philosophy 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, home economics, manual arts, physical education, or speech, or more than 20 hours in music, or more than 10 hours in applied music with a combined maximum of 20 hours in 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 of a special degree curriculum except that a minor in music may include 30 hours.

Not more than 10 hours nor less than 8 hours of physical education for men from Courses 351-354, 451-456, 458, 460-462 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.

The requirements for a standard secondary certificate include credit for at least 22½ hours of work in one major line and at least 15 hours in each of two other major lines as prescribed by the State Board of Educational Examiners.

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 and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; 5 hours of work from other courses in composition or from Speech 335, 336, and 465; 5 hours of work from language and literature.

Foreign Language (French, German, Latin, Spanish)—Total 0 to 20 hours.

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 2½ 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 1½ 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.

The required work in foreign language 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—Total 15 to 20 hours.

If a student presents entrance credit for 4½ or more units in this group of subjects, 15 hours in the group; for less than 4½ 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.

Social Science—Total 10 to 15 hours.

Government 132: 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.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 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, languages, 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.

The work in Physical Education 01 for women students must include 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 36) and General Requirements for Graduation (page 33).

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 and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II or Psychology 416: Psychology of Adolescence—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; English 300: Advanced Exposition—5 hours; elective—5 hours.

Science—Total 10 hours.

Earth Science 60: Principles of Physiography—5 hours; Earth Science 462: Climatology—5 hours.

Social Science—Total 10 hours.

Government 132: American Government—5 hours; Economics 152: Principles of Economics I—5 hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Agriculture—Total 30 hours.

Agriculture 380: Dairy Cattle—3 hours; Agriculture 382: Beef Cattle and Sheep—3 hours; Agriculture 386: Swine—2 hours; Agriculture 484: Farm Poultry—2 hours; Agriculture 487: Farm Management—3 hours; Agriculture 488: Marketing Agricultural Products—3 hours; electives in agriculture—14 hours.

Electives—Electives to make a total of 180 hours.

The work of a student must include two minors.

The work in Physical Education 01 for women students 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 36) and General Requirements for Graduation (page 33).

Requirements for the Degree of Bachelor of Science in Commercial Education

Education and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; 5 hours of work from other courses in composition or from Speech 335, 336, and 465; 5 hours of work from language and literature.

Mathematics, Biological Science, Earth Science, Physics, Chemistry—Total 15 to 20 hours.

Earth Science 62: 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.

Social Science—Total 10 to 15 hours.

Government 132: 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.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Commercial Education—Total 40 hours.

Commercial Education 01 or 02: Penmanship—one term; Commercial Education 154 and 155 or 155 and 156: 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.

The work in Physical Education 01 for women students 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 36) and General Requirements for Graduation (page 33).

Requirements for the Degree of Bachelor of Science in Home Economics

Education and Psychology—Total 22 hours.

Psychology 15: Educational Psychology I—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in psychology—5 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; English 100: Description and Narration—5 hours; 5 hours of work from language and literature.

Science—Total 23 to 28 hours.

Biological Science 11: Physiology—5 hours; *Chemistry 121 and 122: Inorganic Chemistry I and II or Chemistry 130 and 131: Inorganic Chemistry A and B—10 hours; Chemistry 321: Organic Chemistry—5 hours; Chemistry 328: Chemistry of Foods and Nutrition—3 hours.

Social Science—Total 5 hours.

Government 132: American Government—5 hours.

Art—Total 5 hours.

Art 115: General Design—2½ hours; Art 125: Applied Arts I—2½ hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Home Economics—Total 44 to 48 hours.

Home Economics 401: Clothing I—4 hours; Home Economics 402: Clothing II—4 hours; Home Economics 10: Textiles—3 hours; Home Economics 11: Costume Design—3 hours; Home Economics 21: Foods I—4 hours; Home Economics 22: Foods II—4 hours; Home Economics 440: Advanced Nutrition—4 hours; Home Economics 12: House Furnishing and Decoration—3 hours; Home Economics 450: Home Management—5 hours; Home Economics 300: Child Care—3 hours; Home Economics 420: Meal Planning and Serving—3 hours; Home Economics 451: Problems of Consumers—5 hours; Home Economics 490: Methods in Home Economics—3 hours.

* A student who presents entrance credit for 1 unit of chemistry must take Chemistry 123 instead of Chemistry 121 and 122 or Chemistry 130 and 131.

Electives: Electives to make a total of 180 hours.

The work of a student must include two minors.

The work in Physical Education 01 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 36) and General Requirements for Graduation (page 33).

Requirements for the Degree of Bachelor of Science in Manual Arts

Education and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; English 100: Description and Narration—5 hours; language and literature—5 hours.

Mathematics, Biological Science, Earth Science, Physics, Chemistry—Total 15 hours.

Physics 140: Mechanics—5 hours; Physics 343: Heat, Electricity, and Magnetism—5 hours; elective from this group of subjects—5 hours.

Social Science—Total 10 hours.

Government 132: American Government—5 hours; elective—5 hours.

Art—Total 2½ hours.

Art 110: Drawing I or Art 10: Perspective—2½ hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Manual Arts—Total 40 hours.

Manual Arts 310: Mechanical Drawing I—2 hours; Manual Arts 311: Mechanical Drawing II—3 hours; Manual Arts 312: Mechanical Drawing III—3 hours; Manual Arts 415: Architectural Drawing—3 hours; Manual Arts 110: Industrial Arts Design—2½ hours; Manual Arts 320: Woodwork I—3 hours; Manual Arts 321: Woodwork II—2 hours; Manual Arts 322: Woodwork III—2 hours; Manual Arts 325: Woodwork IV—5 hours; Manual Arts 115: Wood Finishing—2 hours; Manual Arts 40: Metal Work I—2½ hours; Manual Arts 480: The Planning and Equipment of the School Shop—2 hours; Manual Arts 485: Organization and Administration of Manual Arts—5 hours; Manual Arts 490: The Teaching of Manual Arts—3 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 36) and General Requirements for Graduation (page 33).

Requirements for the Degree of Bachelor of Science in Music

Education and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; 5 hours of work from other courses in composition or from Speech 335, 336, and 465; 5 hours of work from language and literature.

Foreign Language—Total 15 hours.

Social Science—Total 5 hours.

Government 132: American Government—5 hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Music—Total 78 hours.

Music 13: Music I—3 hours; Music 14: Music II—3 hours; Music 15: Sight Singing—3 hours; Music 311: Ear Training and Dictation—3 hours; Music 312: Music Methods I—2 hours; Music 313: Music Methods II—3 hours; Music 314: Choral Conducting—2 hours; Music 408: High School Music—5 hours; Music 16: Harmony I—3 hours; Music 317: Harmony II—3 hours; Music 318: Harmony III—3 hours; Music 319: Harmony IV—3 hours; Music 406: Music Form and Analysis—3 hours; Music 315: History of Music I—2 hours; Music 316: History of Music II—3 hours; Music 407: Music Appreciation—3 hours; Music 409: Music Supervision—2 hours; Music 412: Orchestra Conducting—3 hours; Music 01, 02, 03: Supervisors Violin A, B, C; Voice—6 hours; *Piano—6 hours; electives in Applied Music—6 hours; electives in music—8 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.

The work in Physical Education 01 for women students must include 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 36) and General Requirements for Graduation (page 33).

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

* 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.

curriculum for teachers in kindergarten-primary grades or the two-year curriculum for teachers in grades above the primary and in addition the following work:

Education and Psychology—Total 20 hours.

Psychology 408: Personality Development of Children—3 hours; Psychology 412: Mental Hygiene—2 hours; Education 435: The Teaching of Reading and Spelling—5 hours; Education 444: The Education of Exceptional Children—5 hours; Education 458: Mental Tests—2 hours; Education 466: The Elementary School Curriculum—3 hours.

Speech—Total 5 hours.

Speech 485: Speech Correction—5 hours.

Biological Science—Total 3 hours.

Biological Science 412: Heredity—3 hours.

Social Science—Total 12 hours.

Sociology 358: General Sociology—5 hours; Sociology 472: Crime and Poverty—5 hours; Sociology 360: Social Problems—2 hours.

Manual Arts—Total 5 hours.

Manual Arts 320: Woodwork I—3 hours; Manual Arts 321: Woodwork II—2 hours.

Physical Education—Total 7 hours.

Physical Education 10: Play and Playground—3 hours; Physical Education 100: First Aid to the Injured—2 hours; Physical Education 303: Club Craft and Leadership—2 hours.

Teaching—Additional teaching to make a total of 15 hours of teaching.

Electives: Electives to make a total of 180 hours.

The work in Physical Education 01 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 36) and General Requirements for Graduation (page 33).

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

Education and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measurements in the High School—5 hours; elective in education—3 hours.

English—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; 5 hours of work from other courses in composition or Speech 335, 336, and 465; 5 hours of work from language and literature.

Foreign Language—Total 0 to 15 hours.

If a student presents entrance credit for 4 or more units of foreign language, no foreign language; for less than 4 units, 15 hours.

Physics—Total 5 hours.

Physics 150: Sound and Music—5 hours.

Government—Total 5 hours.

Government 132: American Government—5 hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours.

Music—Total 73 hours.

Music 13: Music I—3 hours; Music 300-305: Orchestral Instruments I-VI—6 hours; Music 412: Orchestra Conducting—3 hours; Music 413: Band Directing—2 hours; Music 410: Orchestration—3 hours; Music 411: Band Instrumentation—2 hours; Music 414: Composition I—1 hour; Music 415: Composition II—1 hour; Music 416: Composition III—1 hour; Music 417-419: Ensemble I, II, III—3 hours; Music 428: Senior Recital—1 hour; Music 01, 02, 03: Supervisors Violin A, B, C; Music 16: Harmony I—3 hours; Music 317: Harmony II—3 hours; Music 318: Harmony III—3 hours; Music 319: Harmony IV—3 hours; Music 403: Counterpoint I—2 hours; Music 404: Counterpoint II—2 hours; Music 405: Counterpoint III—2 hours; Music 315: History of Music I—2 hours; Music 316: History of Music II—3 hours; Applied Music VII to XV (*major instrument)—21 hours, **Piano—3 hours.

Electives: Electives to make a total of 180 hours. Not more than 90 hours of credit in music may be used in meeting the requirements for a degree.

The work of a student must include one minor.

The work in Physical Education 01 for women students must include 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 36) and General Requirements for Graduation (page 33).

Requirements for the Degree of Bachelor of Science in Physical Education

Requirements for Men

Education and Psychology—Total 25 hours.

Psychology 15: Educational Psychology I—5 hours; Psychology 405: Educational Psychology II—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; Education 460: Methods and Measure-

* With the consent of the Head of the Department of 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 other Applied Music in the instrumental line. 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 Music 3 hours of Organ or other courses in the Department of Music may be substituted for Piano.

ments in the High School—5 hours; elective in education—3 hours.

English, Speech—Total 10 to 15 hours.

English 1: English I (if release from this course has not been granted)—5 hours; English 100: Description and Narration—5 hours; Speech 110: Public Speaking—5 hours.

Biological Science—Total 15 hours.

Biological Science 100: Animal Biology—5 hours; Biological Science 11: Physiology—5 hours; Biological Science 300: Hygiene and Sanitation—5 hours.

Social Science—Total 10 to 15 hours.

Government 132: 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.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours, which should include 5 hours of teaching in subjects other than physical education.

Physical Education—Total 38 to 42 hours.

Physical Education 471: History and Principles of Physical Education—3 hours; Physical Education 300: Anatomy—5 hours; Physical Education 372: Athletic Training and Conditioning—2 hours; Physical Education 455: Gymnastics—2 hours; Physical Education 456: Swimming—2 hours; Physical Education 457: Activities for Schools—2 hours; Physical Education 473: Organization and Administration of Physical Education—3 hours; Physical Education 472: Methods in Physical Education—5 hours; Football—5 or 6 hours; Basketball—5 or 6 hours; Baseball—2 or 3 hours; Track and Field—2 or 3 hours.

Electives: Electives to make a total of 180 hours.

For further details, see Four-Year Curricula—Introductory Statement (page 36) and General Requirements for Graduation (page 33).

Requirements for Women

Education and Psychology—Total 25 hours.

Psychology 15: Education Psychology I—5 hours; Education 10: Introduction to Education—5 hours; Education 325: Statistical Methods in Education—2 hours; elective in psychology—5 hours; electives in education—8 hours.

English, Speech—Total 20 to 25 hours.

English 1: English I (if release from this course has not been granted)—5 hours; additional composition—5 hours; 10 hours of work from language and literature; Speech—5 hours.

Biological Science, Physics, Chemistry—Total 25 hours.

Biological Science 100: Animal Biology—5 hours; Biological Science 11: Physiology—5 hours; Physics 51: Mechanics, Light, and Electricity—5 hours; Chemistry 30: Elementary Inorganic and Organic Chemistry—5 hours; Chemistry 31: Physiological Chemistry—5 hours.

Social Science—Total 10 hours.

Government 132: American Government—5 hours; elective in social science—5 hours.

Home Economics—Total 3 hours.

Home Economics 160: Elementary Nutrition—3 hours.

Teaching—Total 10 hours.

Teaching 01: Illustrative Teaching—12 weeks; Teaching 306 or 406: Teaching—10 hours, which must include 5 hours in the teaching of subjects other than physical education unless the Head of the Department of Teaching releases the student from this requirement.

Physical Education—Total 52 hours.

Physical Education 302: Principles of Physical Education—5 hours; Physical Education 300: Anatomy—5 hours; Physical Education 410: Physiology of Exercise—3 hours; Physical Education 409: Physical Diagnosis—3 hours; Physical Education 100: First Aid to the Injured—2 hours; Physical Education 408: Therapeutic Exercises and Massage—3 hours; Physical Education 407: School Health Problems—5 hours; Physical Education 301: Kinesiology—3 hours; Physical Education 400: Play as Education—5 hours; Physical Education 401: The Dance in Education—3 hours; Physical Education 405: Tests and Measurements in Physical Education—2 hours; Physical Education 406: Administration of Physical Education—5 hours; Physical Education 402: The Teaching of Basketball and Swimming—3 hours; Physical Education 403: The Teaching of Hockey, Soccer, and Tennis—2 hours; Physical Education 404: 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.

Electives: Electives to make a total of 180 hours.

The work of a student must include one minor.

Four courses in Physical Education 01 are required each term unless the student is released by the adviser from work in excess of the general requirement in Physical Education 01.

For further details, see Four-Year Curricula—Introductory statement (page 36) and General Requirements for Graduation (page 33).

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 notes following the curriculum outline, 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 more than 5 hours of religious literature and philosophy 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

* For a list of the majors, see Four-Year Curricula—Introductory Statement (page 36).

may register for 15 hours of teaching during the term and may use this credit in meeting the requirements for graduation.

For a full statement of the requirements in Physical Education 01, see General Requirements for Graduation (page 34).

Curriculum for Teachers in Kindergarten-Primary Grades

First Year

	Hours		Hours
Education 10: Introduction to Education	5	Art 20: Art for Kindergarten-Primary Grades	2½
Education 25: Reading and Mathematics for Primary Grades.....	5	Art 21: Industrial Arts for Kindergarten-Primary Grades.....	2½
Education 30: Language and Literature for Kindergarten-Primary Grades	5	English 1: English I.....	5
Psychology 20: Child Psychology.....	5	English 100: Description and Narration	5
Teaching 15: Activities of Young Children	2½	Music 10: Elements of Music.....	2½
Art 110: Drawing I.....	2½	Music 11: Music for Kindergarten-Primary Grades.....	2½
Physical Education 01 each fall, winter, and spring term			

Second Year

	Hours		Hours
Education 310: Methods in the Kindergarten	3	Biological Science 12: Health Education	3
Teaching 10: Directed Observation of Kindergarten-Primary Work.....	2	Home Economics 60: Nutrition of Children	3
Teaching 304: Kindergarten-Primary Teaching	10	Government 132: American Government	5 or 3
Biological Science 10: Nature Study, General Science A.....	5	Electives in Social Science.....	5 or 7
Physical Education 01 each fall, winter, and spring term			
		Electives	9

Notes

1. With the consent of the Head of the Department of Teaching 5 hours of Nursery School Teaching (Teaching 302) may be substituted for 5 hours of Teaching 304.

2. A total of 10 hours of Social Science including American Government is required.

3. Credit for Rural School Management (Education 50) earned by a student while registered for twelve weeks of normal training may be used in meeting the requirements for graduation from this curriculum.

4. The work in Physical Education 01 must include Physical Education for Primary Grades and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

5. A student who has completed this curriculum may use all the credit in meeting the requirements of a degree with a major in nursery school-kindergarten education, in kindergarten-primary education, or in teaching and critic training.

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

7. For further details, see General Requirements for Graduation (page 33) and Two-Year Curricula—General Regulations (page 47).

Curriculum for Teachers in Grades above the Primary

First Year

Hours	Hours
Education 10: Introduction to Education.....5	Biological Science 12: Health Education.....3
Education 45: Elementary School Management or Education 50: Rural School Management.....5	Music 10: Elements of Music.....2½
Education 35: Elementary School Methods.....5	Mathematics 10: Principles of Elementary Mathematics I.....5
Psychology 15: Educational Psychology I.....5	English 1: English I.....5
Art 110: Drawing I.....2½	English 100: Description and Narration.....5
Art 22: Industrial Arts for Intermediate Grades.....2½	Teaching 01: Illustrative Teaching
Physical Education 01 each fall, winter, and spring term	Commercial Education 01: Penmanship

Second Year

Hours	Hours
Teaching 306: Teaching.....10	History 14: American History to 1865 or History 304: American History since 1865.....5
Biological Science 10: Nature Study or Physics 50: Everyday Physical Science.....5	English 105: Literature for Intermediate Grades.....5
Earth Science 162: Elements of Geography.....5	Elective in Science.....5
Music 12: Music for Intermediate Grades.....2	Electives (Note 4).....2½ or 4½
Government 132: American Government (Note 4).....5 or 3	
Physical Education 01 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 teachers in rural schools 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. Neither the five-hour course in American Government nor the electives may be taken until the student registers for student teaching. A student who cannot register for work on the campus during the term of student 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. A student who does not use toward graduation 15 hours of credit in teaching must take the five-hour course in American Government or must take the three-hour course in American Government and 2 hours of elective work in social science.

5. The work in Physical Education 01 for women students must include Physical Education for Intermediate Grades and at least two courses selected from Team Sports, Individual Sports, and Rhythmic Activities.

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.

tion. 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 33) and Two-Year Curricula—General Regulations (page 47).

ONE-YEAR CURRICULUM

Curriculum for Teachers in Rural Schools

	Hours		Hours
Education 50: Rural School Management	5	Biological Science 10: Nature Study or Physics 50: Everyday Physical Science	5
Education 40: Rural School Methods	5	Earth Science 162: Elements of Geography	5
Teaching 5: Rural Observation and Teaching	2½	Government 132: American Government	3
English 1: English I	5	History 14: American History to 1865	5
Mathematics 10: Principles of Elementary Mathematics I	5	Commercial Education 01: Penmanship	
Music 10: Elements of Music	2½		
Art 110: Drawing I	2½		
Physical Education 01 each fall, winter, and spring term			

Notes

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

2. A student may use all of the credit earned on this curriculum except that earned in Teaching 5 in meeting the requirements of the curriculum for teachers in grades above the primary.

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

4. 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.

5. The work in Physical Education 01 for women students must include Physical Education for Rural Schools and at least one course selected from Team Sports, Individual Sports, and Rhythmic Activities.

6. For further details, see General Requirements for Graduation (page 33) and Two-Year Curricula—General Regulations (page 47).

COURSES OF INSTRUCTION

EXPLANATION OF COURSE NUMBERS

Courses with 0 prefixed, open to students in any year of residence.

Courses 1- 9, open to Freshmen only.

Courses 10- 99, open to Freshmen and Sophomores.

Courses 100-199, open to Freshmen, Sophomores, and Juniors.

Courses 200-299, open to Sophomores and Juniors.

Courses 300-399, open to Sophomores, Juniors, and Seniors.

Courses 400-499, open to Juniors and Seniors.

All first-year students are designated as freshmen; students who have completed 45 and less than 90 hours, as sophomores; 90 and less than 135 hours, as juniors; and 135 hours or more, as seniors.

ART AND MANUAL ARTS

1. Art

A major in art must include Art 10, 15, 110, 111, 115, 125, 312, 315, 330, 415, 425, 470, 480, 490, and 491.

The work of a student whose major is art must include Manual Arts 310.

110. **Drawing I**—2½ hours. Basic course in drawing. Theory and use of color. Drawing of type and nature forms. Figure drawing. Daily.

111. ***Drawing II**—2½ hours. Continuation of Drawing I with more emphasis upon technique. Mass drawing in light and shade. Figure drawing and illustration. Daily. Prerequisite: Art 110 or equivalent preparation.

312. **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: Art 111 or equivalent preparation.

10. **Perspective**—2½ hours. Type forms, single objects, groups of objects. Linear and aerial perspective. Daily.

115. **General Design**—2½ hours. Principles of design as applied to construction and decoration. Color theory and harmony. Daily.

415. **Advanced Design**—2½ hours. Daily. Prerequisite: Art 115 or equivalent preparation.

15. **Water Color**—2½ hours. Study of color as applied to still life and landscape. Technique of water color painting. Daily. Prerequisite: Art 110 and 115 or equivalent preparation.

* A student who has credit for Art 20 may not have credit for Art 111. A student who has credit for Art 111 may not have credit for Art 20.

410. Figure Drawing and Painting—2½ hours. Special problems in figure drawing and painting. Use of various media, including oils. Prerequisite: Art 110 and 111.

125. Applied Arts I—2½ hours. Drawing and design applied to different spaces, materials, and objects. Daily. Prerequisite: Art 115 or equivalent preparation.

425. Applied Arts II—2½ hours. Similar to Applied Arts I with applications to other spaces, materials, and objects. Daily. Prerequisite: Art 115 or equivalent preparation.

01. Elementary Handwork—Drill credit. Daily.

20. *Art for Kindergarten-Primary Grades—2½ hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Daily. Prerequisite: Art 110.

21. *Industrial Arts for Kindergarten-Primary Grades—2½ hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. A study of the modern conceptions of the nature and purposes of industrial arts activities at the kindergarten and primary levels. Development of projects suitable for accomplishing these purposes through manipulative activities in which children may engage. Daily.

22. *Industrial Arts for Intermediate Grades—2½ hours. Credit only on the curriculum for teachers in grades above the primary and for a student whose major is art or elementary education. 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: Art 110.

315. 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.

330. Commercial Art—2½ hours. Principles of design and lettering applied in illustration and advertising. Daily. Prerequisite: one term of drawing.

470. Pictorial Composition—2½ hours. Composition in illustration and pictorial drawing with emphasis upon the drawing of the human figure. Daily. Prerequisite: Art 110 and 111 or equivalent preparation.

380. Art Appreciation—5 hours. Examples of architecture, sculpture, painting, and handicraft.

480. History of Art—5 hours. Architecture, painting, sculpture, and handicraft of different peoples.

490. The Teaching of Art—3 hours. This course has been approved as a course in education for a student whose major is art. Prerequisite: Art 110, 111, 115, and Education 460.

* Art 20, 21, and 22 may be counted toward a minor in art for those students who can use credit in these courses toward graduation.

491. **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: Art 110, 111, and 115.

2. Manual Arts

A major in manual arts must include Manual Arts 40, 110, 115, 310, 311, 312, 320, 321, 322, 325, 415, 480, 485, and 490.

The work of a student whose major is manual arts must include Art 10 or 110, and either Physics 140 and 343 or Physics 41 and 42.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Manual Arts, see page 42.

310. **Mechanical Drawing I**—2 hours. Laboratory work, 4 periods a week.

311. **Mechanical Drawing II**—3 hours. Laboratory work, 6 periods a week.

312. **Mechanical Drawing III**—3 hours. Laboratory work, 6 periods a week.

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.

415. **Architectural Drawing**—3 hours. Laboratory work, 6 periods a week. Prerequisite: Manual Arts 310 and 311.

110. **Industrial Arts Design**—2½ hours. General principles of constructive and decorative design as applied to wood and metal. Period styles in furniture. Daily.

120. **Woodworking for Grade Teachers**—1 hour. Credit only on the curricula for teachers in kindergarten-primary grades, in grades above the primary, in rural schools, and for a student whose major is nursery school-kindergarten education, kindergarten-primary education, or elementary education. Instruction in the use of woodworking tools and materials for the construction of projects employed in the teaching of children. Laboratory work, 2 periods a week.

320. **Woodwork I**—3 hours. Laboratory work, 6 periods a week.

321. **Woodwork II**—2 hours. Laboratory work, 4 periods a week.

322. **Woodwork III**—2 hours. Laboratory work, 4 periods a week.

Study of tools and exercises in the use of tools. Materials of construction. Elementary cabinet work. These courses must be taken in consecutive order.

325. **Woodwork IV**—5 hours. Advanced problems in design and construction. Laboratory work, 10 periods a week. Prerequisite: Manual Arts 320, 321, and 322.

10. **Wood Turning**—2 hours. The woodturning lathe. Various methods of turning. Laboratory work, 4 periods a week.

115. **Wood Finishing**—2 hours. Purposes and kinds of finishing. Preparation and application of finishing materials.

430. 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: Manual Arts 320, 321, 322 and 325.

40. Metal Work I—2½ hours. Design and construction of articles in tin plate, brass, copper, galvanized iron, strap iron, and heavy sheet iron. Daily.

341. Metal Work II—2½ hours. Continuation of Metal Work I. Prerequisite: Manual Arts 40 or equivalent preparation. Daily.

470. General Shop and Home Mechanics—3 hours. Shop organization and procedure, individual instruction sheets, original projects. Daily.

350. Automobile Mechanics I—5 hours. The general care and repair of the automobile. Laboratory work, 10 periods a week.

451. 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: Manual Arts 350.

480. 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.

485. 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: Manual Arts 310, 311, 320, and 321.

490. The Teaching of Manual Arts—3 hours. This course has been approved as a course in education 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: Psychology 15, Manual Arts 310, 311, 320, 321, and Education 460.

EDUCATION

1. Psychology

15. Educational Psychology I—5 hours. No credit for a student who has credit for Psychology 20. Introduction to the study of mental processes with special attention to the psychology of learning and to habit formation.

405. Educational Psychology II—5 hours. Continuation of Educational Psychology I with special attention to individual differences. Prerequisite: Psychology 15 or 20.

20. Child Psychology—5 hours. No credit for a student who has credit for Psychology 15. Common tendencies and traits of children. Individual differences in early childhood.

408. Personality Development of Children—3 hours. Personality and behavior traits from infancy to maturity. Attitudes and their development. Spring and summer terms.

412. **Mental Hygiene**—2 hours. Nature of mental health in children and adults. Principles and status of mental hygiene; approach and terminology used. Emphasis on the normal group. Spring and summer terms.

414. **Genetic Psychology**—5 hours. Origin and development of consciousness in the child and in the race. Prerequisite: Psychology 15 or 20. Spring term.

416. **Psychology of Adolescence**—5 hours. Changing attitudes and concepts of youths from eleven to eighteen years of age. Mental and physical influences that retard or accelerate mental growth. Prerequisite: Psychology 15 or 20. Fall term.

420. **Social Psychology**—5 hours. Thinking and behavior of people as affected by their association with one another. A course in group psychology. Prerequisite: Psychology 15 or 20. Winter and summer terms.

423. **Experimental Psychology**—5 hours. Typical experiments in approved lines of psychological investigation. Methods of experimentation and their significance for the public school teacher. Prerequisite: Psychology 15 or 20. Summer term.

2. Education

A student whose major is nursery school-kindergarten education must complete the work of the two-year curriculum for teachers in kindergarten-primary grades and in the work of the junior and senior years must include Psychology 408 and 412; and Education 442, 448, 450, 452, and 482.

A student whose major is kindergarten-primary education must complete the work of the two-year curriculum for teachers in kindergarten-primary grades and in the work of the junior and senior years must include Education 442, 464, and 482.

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 Education 325, 455, 470, and 475.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Opportunity Room Education, see page 43.

10. **Introduction to Education**—5 hours. Survey of the field of education with attention to historical development; the profession of teaching, its development and opportunities.

310. **Methods in the Kindergarten**—3 hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Principles and methods of kindergarten teaching. Prerequisite: 10 hours of psychology and education.

25. **Reading and Mathematics for Primary Grades**—5 hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Principles and aims of the teaching of primary reading and mathematics with special attention to methods.

30. ***Language and Literature for Kindergarten-Primary Grades**—5 hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education, kindergarten-primary education, elementary education, or teaching and critic training and for a student who is on the curriculum leading to the degree of Bachelor of Science in Opportunity Room Education. Principles and methods involved in the teaching of language, writing, and spelling in the kindergarten-primary grades. Special work in the selection and presentation of stories and poems suitable for kindergarten-primary grades.

35. **Elementary School Methods**—5 hours. No credit for a student who has credit for Education 40. Methods of teaching the elementary school subjects. The principles which underlie various methods of instruction.

40. **Rural School Methods**—5 hours. No credit for a student who has credit for Education 35. Methods of teaching the common branches under rural school conditions.

435. **The Teaching of Reading and Spelling**—5 hours. The teaching of reading and spelling in the elementary school. Winter and summer terms.

440. **The Teaching of Social Studies in the Elementary School**—3 hours. Credit only for a student whose major is nursery school-kindergarten education, kindergarten-primary education, or elementary education. Materials and methods. Integration of the social sciences in the elementary grades. Spring and summer terms.

442. **Literature for Kindergarten-Primary Children**—5 hours. Credit only for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Winter and summer terms.

443. **Story Telling**—5 hours. Organization of stories for different age levels. Principles underlying successful story telling and practice in the application of these principles. Prerequisite: Education 442. Fall and summer terms.

444. **The Education of Exceptional Children**—5 hours. Organization of subject matter for opportunity room teaching. Methods of teaching subnormal, backward, and unusually bright children. Prerequisite: Psychology 15 or 20. Summer term.

446. **Teaching Techniques**—2 hours. Recent developments in educational methods for the elementary school. Summer term.

448. **Current Literature of Child Development**—3 hours. Readings in scientific and popular publications on child development. Designed to acquaint students with the findings of research and methods by which these are brought to the average reader. Spring term.

450. **Parent Education**—5 hours. Problems of cooperation between home and school and of pre-parental education. Winter and summer terms.

325. **Statistical Methods in Education**—2 hours. No credit for a student who has credit for Mathematics 406. Statistical methods in

* The Registrar is authorized to report this course as a course in English for a student who is graduated from the curriculum for teachers in kindergarten-primary grades.

common use without detailed reference to their mathematical foundations. Use of these methods in the construction of tests and the classification of pupils.

452. Mental Tests and Measurements for Young Children—3 hours. Summer term.

455. 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: Education 325. Spring and summer terms.

458. 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: Psychology 15 or 20. Spring term.

460. 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: Education 325.

464. The Kindergarten-Primary Curriculum—5 hours. Credit only for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Purpose, origin, construction, and function of the kindergarten-primary curriculum. Spring and summer terms.

466. The Elementary School Curriculum—3 hours. Origin, function, purpose, and construction of the elementary school curriculum with special attention to the grades above the primary. Summer term.

468. The Junior High School—3 hours. Problems involved in the organization of the junior high school. Winter and summer terms.

329. The Consolidated School—5 hours. The development of the consolidated school, its place in education, and its relation to the community. Spring term.

45. 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 Education 50. The problems of management of the elementary school.

50. 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 Education 45. The extra-instructional activities of the rural school teacher.

470. Elementary School Supervision—5 hours. Principles underlying present-day supervision. Relationship of classroom teacher to supervisor, principal, and superintendent. Winter and summer terms.

475. School Administration—5 hours. No credit for a student who has credit for Consolidated School Administration. Relation of the administrator to the community and the school. Buildings, equipment, promotions, records, reports, course of study, sanitation, transportation, and important school legislation. Special attention to the problems of the smaller schools.

478. **Problems of Student Advisers**—3 hours. Special problems of adolescence. A course for women only. Spring and summer terms.

331. **Manuscript Writing**—1 hour. Study of the history of writing and consideration of the advantages of manuscript writing in the development of the child. Practice in this type of writing through the construction of charts and booklets for children. Two periods a week. Winter and summer terms.

484. **Vocational Education**—5 hours. History of vocational education and the problems of vocational guidance. Winter and summer terms.

482. **History of Nursery School, Kindergarten, and Primary Education**—5 hours. Credit only for a student whose major is nursery school-kindergarten education or kindergarten-primary education. History of infant schools, of the Montessori nursery schools, of the Froebellian and modern kindergartens, and of primary education. Winter term.

486. **History of American Education**—5 hours. Origin and growth of education in the United States. Winter term.

488. **History of Education**—5 hours. Educational ideals, ancient and modern. National educational systems. Current educational problems in the light of experiences of the past. Fall and spring terms.

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 490)—3 hours.
- (b) The Teaching of Manual Arts (Manual Arts 490)—3 hours.
- (c) The Teaching of English (English 490)—3 hours.
- (d) Methods in Home Economics (Home Economics 490)—3 hours.
- (e) The Teaching of Latin (Latin 490)—3 hours.
- (f) The Teaching of Secondary Mathematics (Mathematics 490)—5 hours.
- (g) The Teaching of Shorthand and Typewriting (Commercial Education 495)—3 hours.
- (h) The Teaching of Bookkeeping (Commercial Education 496)—2 hours.
- (i) The Teaching of Physics (Physics 492)—3 hours.
- (j) The Teaching of Chemistry (Chemistry 491)—3 hours.
- (k) The Teaching of the Social Sciences (History 490)—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 315, 325, 330 and 331

or 440 and 441, 445, 460, 490, and 7 hours of elective work in English. English I may not be included in a major or a minor in English.

A. Composition

1. **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.

100. **Description and Narration—5 hours.** No credit for a student who presents credit for 6 semester hours of Freshman English. Each term.

300. **Advanced Exposition—5 hours.** Study of difficult specimens of exposition. Application of principles and methods in original work. Fall term.

400. **Advanced Story Writing—5 hours.** Technique of the short story. Writing of short stories. Prerequisite: 10 hours of English composition exclusive of English 310. Winter and spring terms.

405. **The Essay—5 hours.** Development of the essay. Practice in the writing of original essays. Prerequisite: 10 hours of English composition exclusive of English 310. Spring term.

310. **Journalism I—5 hours.** News values; methods of obtaining, verifying, and presenting news; preparation of newspaper copy for publication; newspaper style and make-up. Fall and spring terms.

410. **Journalism II—5 hours.** Practice in writing feature stories for publication. Criticism and writing of newspaper editorials of various types. Winter term.

415. **High School Publications—1 hour.** Management and publication of high school papers and annuals. Spring term.

B. Language and Literature

10. **Elements of Literature—5 hours.** No credit for a student whose major is English. 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. Each term.

105. **Literature for Intermediate Grades—5 hours.** Credit only on the curriculum for teachers in grades above the primary and for a student whose major is elementary education or teaching and critic training, or who is on the curriculum leading to the degree of Bachelor of Science in Opportunity Room Education. Study of the basic principles for the selection of literary material for the intermediate

grades. The teaching of literature in the intermediate grades. Each term.

315. **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. Fall term.

320. **English Literature, 1625-1784**—5 hours. No credit for a student who has credit for The Age of Classicism. Winter term.

420. **English Literature, 1784-1832**—5 hours. No credit for a student who has credit for The English Romantic Movement. Spring term.

425. **English Literature, 1832-1880**—5 hours. No credit for a student who has credit for Tennyson and Browning, Victorian Prose, or Victorian Poetry. Fall term.

430. **Development of the English Drama**—5 hours. English drama from its beginning to the time of Shakespeare. Fall term.

325. **Shakespeare**—5 hours. Intensive study of selected plays; reading of other plays; brief study of the non-dramatic works of Shakespeare. Each term.

435. **The English Novel, 1740-1875**—5 hours. Spring term.

440. **English Poets since 1875**—2 hours. Winter term.

441. **English Prose Writers since 1875**—3 hours. Winter term.

445. **American Literature, 1640-1875**—5 hours. No credit for a student who has credit for English 15 or 16. Reading of works of the principal authors. Fall term.

15. **American Prose Writers, 1825-1875**—2 hours. No credit for a student whose major is English. Winter term.

16. **American Poets, 1825-1875**—3 hours. No credit for a student whose major is English. Winter term.

330. **American Prose Writers since 1875**—3 hours. Fall and spring terms.

331. **American Poets since 1875**—2 hours. Fall and spring terms.

450. **Literary Criticism**—5 hours. Prerequisite: 5 hours of English literature. Spring term.

455. **Technique of English Poetry**—5 hours. Winter term.

460. **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. Spring term.

490. **The Teaching of English**—3 hours. This course has been approved as a course in education for a student whose major is English. Prerequisite: 15 hours of English and Education 460. Spring term.

2. Speech

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

English 325 and 400, though not included in the speech major line, may be used in meeting the requirements of a major in speech.

110. Public Speaking—5 hours. Principles of effective speaking. Study and analysis of different forms of public address with practice in oral discussion of current issues. Each term.

335. 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 Speech 336. Winter term.

336. Debating—3 hours. Intensive study of a debate question with forensic practice. With change of the debate question this course may be taken again for 3 hours of additional credit. Required of students who participate in intercollegiate debate. Winter term.

465. Advanced Public Speaking—5 hours. History, literature, and technique of the oration, with practice in various forms of public address other than debating. Prerequisite: Speech 110. Spring term.

115. Oral Interpretation I—5 hours. Each term.

120. Oral Interpretation II—5 hours. Prerequisite: Speech 115 or equivalent preparation. Each term.

470. Pedagogy of Interpretation—5 hours. Spring term.

340. Play Production I—5 hours. Oral interpretation of a Shakespearean comedy, a modern comedy, and one-act plays. Prerequisite: Speech 120 or equivalent preparation. Fall term.

475. Play Production II—5 hours. Oral interpretation of a Shakespearean tragedy, a modern tragedy, and one-act plays. Prerequisite: Speech 120 or equivalent preparation. Winter term.

480. Design in the Theater—5 hours. Scenic and costume design in the theater from the Greek period to the present. Recitations, 3 periods a week; laboratory work, 4 periods a week. Fall term.

355. Stage Lighting—2 hours. Spring term.

356. 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. Each term.

358. Stage Make-up—1 hour. Laboratory work, 2 periods a week.

485. Speech Correction—5 hours. Nature of speech defects; training in the diagnosis of individual cases; methods of dealing with the various kinds of defects. Prerequisite: Psychology 15 or 20. Spring term.

3. Biblical Literature and Philosophy

125. The Bible as Literature—5 hours.

360. History of the Christian Religion—5 hours. Survey of the origin of the Christian religion, and its penetration into all parts of the world.

402. Religions of the World—5 hours. Study of the great religions which holds way throughout the world.

404. **Problems of Religious Thought**—5 hours. Basic concepts of religion—God, sin, salvation, the good life, etc.

406. **Introduction to Philosophy**—3 hours.

130. **The Life of Jesus**—3 hours.

408. **Philosophers of the Western World**—3 hours. The lives and teachings of significant thinkers from Plato to John Dewey.

365. **Christian Ethics**—3 hours.

HOME ECONOMICS

A major in home economics must include Home Economics 10, 11, 21, 22, 300, 401, 402, 420, 440, 451, and 490.

The work of a student whose major is home economics must include Art 115, 125; English 100; Chemistry 121 and 122 or 130 and 131*, 321, 328; Biological Science 11; and Government 132.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Home Economics, see page 41.

10. **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.

11. **Costume Design**—3 hours. Recitation, 1 period a week; laboratory work, 4 periods a week. Art 125 must precede or accompany this course.

12. **House Furnishing and Decoration**—3 hours. Prerequisite: Art 125.

21. **Foods I**—4 hours. Principles of cookery and the nutritive facts involved. Recitations, 2 periods a week; laboratory work, 4 periods a week. Chemistry 131 or equivalent preparation must precede or accompany this course.

22. **Foods II**—4 hours. Recitations, 2 periods a week; laboratory work, 4 periods a week. Prerequisite: Chemistry 131 and Home Economics 21 or equivalent preparation.

60. **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.

61. **Personal and Social Relationships**—3 hours.

300. **Child Care**—3 hours.

401. **Clothing I**—4 hours. No credit for a student who has credit for Home Economics 70. Problems in the selection and construction of clothing. Recitations, 2 periods a week; laboratory work, 4 periods a week. Prerequisite: Home Economics 10 and 11.

402. **Clothing II**—4 hours. No credit for a student who has credit for Home Economics 70 or 71. Recitations, 2 periods a week; laboratory work, 4 periods a week. Prerequisite: Home Economics 401 or equivalent preparation.

* A student who presents entrance credit for 1 unit of chemistry must take Chemistry 123 instead of this work.

411. **Applied Dress Design**—3 hours. Historic dress design as applied to modern clothing. Oriental embroidery and appliqué. Laboratory work, 6 periods a week. Prerequisite: Home Economics 402.

412. **Clothing Appreciation**—2 hours. Prerequisite: Home Economics 11.

420. **Meal Planning and Serving**—3 hours. No credit for a student who has credit for Home Economics 72. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: Home Economics 21 and 22.

430. **Experimental Cookery**—3 hours. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: Home Economics 21 and 22.

440. **Advanced Nutrition**—4 hours. Principles of nutrition. The selection of food for normal individuals. Recitations, 3 periods a week; laboratory work, 2 periods a week. Prerequisite: Home Economics 21 and 22. Chemistry 328 must precede or accompany this course.

450. **Home Management**—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Home Economics 21 and 22.

451. **Problems of Consumers**—5 hours.

460. **Weaving and Home Crafts**—3 hours. Daily.

461. **Personal and Family Finance**—2 hours.

490. **Methods in Home Economics**—3 hours. This course has been approved as a course in education 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: Education 460.

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 the following courses in Home Economics:

70. **Clothing Selection**—5 hours. No credit for a student who has credit for Home Economics 401 and 402. Selection of garments from the standpoint of suitability, durability, fashion, and beauty.

71. **Clothing for Children**—3 hours. No credit for a student who has credit for Home Economics 401 and 402. Selection, construction, alteration, and care of clothing for children. Daily.

72. **Food Preparation and Meal Service**—5 hours. No credit for a student who has credit for Home Economics 21 and 22. Recitations, 2 periods a week; laboratory work, 6 periods a week.

160. **Elementary Nutrition**—3 hours. No credit for a student who has credit for Home Economics 21 and 22. Selection of food in relation to food values.

LANGUAGES

1. French

Ten hours of credit in Spanish from courses 301 to 406, 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 or equivalent preparation may take courses from the 300 group in the freshman year and courses from the 400 group (except French 490) in the sophomore year.

101. ***French I**—5 hours. A course for beginners.

102. ***French II**—5 hours. Continuation of French I.

103. **French III**—5 hours. Reading of simple plays and stories. Prerequisite: one year of high-school French or equivalent preparation.

301. **Modern French Prose**—3 hours. Selections from fiction and drama. Prerequisite: two years of high-school French or equivalent preparation.

302. **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.

303. **French Short Stories**—3 hours. Prerequisite: French 301 or equivalent preparation.

304. **French Comedies**—2 hours. Prerequisite: French 301 and 302 or equivalent preparation.

305. **Rostand's Cyrano de Bergerac**—3 hours. Prerequisite: French 301 and 302 or equivalent preparation.

306. **French Life**—2 hours. Study of various phases of French life. Prerequisite: French 301 and 302 or equivalent preparation.

307. **French Novel of the Romantic Period**—3 hours. Prerequisite: French 301 and 302 or equivalent preparation.

308. **The French Drama of the Romantic Period**—2 hours. Prerequisite: French 301 and 302 or equivalent preparation.

309. **The French Novel and Short Story of the Realistic Period**—3 hours. Prerequisite: French 301 and 302 or equivalent preparation.

310. **The French Drama of the Realistic Period**—2 hours. Prerequisite: French 301 and 302 or equivalent preparation.

401. **Contemporary French Drama**—3 hours. Lectures, with reading of Rostand's Chantecler. Prerequisite: French 301 and 302 or equivalent preparation.

402. **Contemporary French Novel and Short Story**—2 hours. Prerequisite: French 301 and 302 or equivalent preparation.

403. **Composition and Conversation**—2 hours. Prerequisite: French 301 and 302 or equivalent preparation.

* French 103 must be completed before credit for French I or II may be used in meeting the requirements for graduation.

404. **The Plays of Corneille and Molière**—3 hours. Lectures on the formation and development of the classical formula. Prerequisite: French 301 and 302 or equivalent preparation.

405. **Racine and La Fontaine**—3 hours. Study of the tragedies of Racine and the fables of La Fontaine. Lectures on the classical period. Prerequisite: French 301 and 302 or equivalent preparation.

406. **French Literature of the 18th Century**—3 hours. The continuation of classicism; the philosophical writers; Rousseau and the beginnings of romanticism. Prerequisite: French 301 and 302 or equivalent preparation.

407. **Victor Hugo**—2 hours. Prose and poetry of Victor Hugo. Prerequisite: French 305 and 306 or equivalent preparation.

408. **Edmond Rostand**—2 hours. Lyric and dramatic poetry of Edmond Rostand. Prerequisite: French 305 and 306 or equivalent preparation.

409. **Pierre Loti**—2 hours. Novels of Pierre Loti. Prerequisite: French 305 and 306 or equivalent preparation.

410. **History of French Literature**—3 hours. Readings, reports, and lectures. Prerequisite: French 305 and 306 or equivalent preparation.

490. **The Teaching of French**—2 hours. Prerequisite: French 305 and 306 or equivalent preparation and Education 460.

2. German

Students who have had two years of German in high school or equivalent preparation may take courses from the 300 group in the freshman year and courses from the 400 group (except German 490) in the sophomore year.

101. ***German I**—5 hours. A course for beginners.

102. ***German II**—5 hours. Continuation of German I.

103. **German Stories and Plays**—5 hours. Prerequisite: one year of high-school German or equivalent preparation.

301. **Recent German Prose**—5 hours. Prerequisite: two years of high-school German or equivalent preparation.

302. **Goethe's Hermann und Dorothea**—2 hours. Prerequisite: German 301 or equivalent preparation.

303. **Schiller's Dramas**—5 hours. Prerequisite: German 301 or equivalent preparation.

304. **German Drama of the Nineteenth Century**—5 hours. Representative work of Heinrich von Kleist, Grillparzer, Hebbel, Ludwig, Anzengruber, and Hauptmann. Prerequisite: German 301 or equivalent preparation.

305. **Contemporary German Literature**—5 hours. Prerequisite: German 301 or equivalent preparation.

306. **German Composition and Advanced Grammar**—3 hours. Prerequisite: German 301 or equivalent preparation.

* German 103 must be completed before credit for German I or II may be used in meeting the requirements for graduation.

401. **German Lyrics and Ballads**—5 hours. Prerequisite: German 301 or equivalent preparation.

402. **Scientific German**—5 hours. Selections from the literature of chemistry, physics, biology, and other sciences. Prerequisite: German 301 and 10 hours of work from German 302, 303, 304, 305, 306, and 401.

403. **Lessing**—5 hours. Prerequisite: German 301 and 10 hours from German 302, 303, 304, 305, 306, and 401.

404. **Goethe**—5 hours. Prerequisite: German 301 and 10 hours of work from German 302, 303, 304, 305, 306, and 401.

405. **History of German Literature**—3 hours. Prerequisite: German 301 and 10 hours of work from German 302, 303, 304, 305, 306, and 401.

490. **The Teaching of German**—2 hours. Prerequisite: German 301 and 10 hours of work from German 302, 303, 304, 305, 306, and 401, and Education 460.

3. Latin

Ten hours of work from Greek 303 and 401, 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 courses 109, 110, 111, 301, 302, 401, 402, 403, and 490.

A minor in Latin taken as preparation for teaching Latin should include Latin 109, 110, 302, and 490.

101. ***Elementary Latin I**—5 hours. A course for beginners.

102. ***Elementary Latin II**—5 hours. Continuation of Elementary Latin I. Prerequisite: one year of high-school Latin or equivalent preparation.

103. **Elementary Latin III**—5 hours. Selections from Caesar's Gallic War. Writing of Latin. Prerequisite: Latin 102 or equivalent preparation.

104. **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 Latin 103 or equivalent preparation.

105. **Cicero's Orations II**—5 hours. Selected orations.

106. **Ovid**—5 hours. Easy stories from the Metamorphoses. Review of Latin grammar. Writing of Latin. Prerequisite: two years of high-school Latin or Latin 103 or equivalent preparation.

107. **Vergil I**—5 hours. Selections from the Aeneid.

108. **Vergil II**—5 hours. Continuation of Vergil I.

109. **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 in—

* Latin 103 must be completed before credit for Elementary Latin I or II may be used in meeting the requirements for graduation.

volving systematic drill in syntax. Prerequisite: four years of high-school Latin or equivalent preparation.

110. *Pliny's Letters*—5 hours. Prerequisite: four years of high-school Latin or equivalent preparation.

111. *Epodes and Odes of Horace*—5 hours. Prerequisite: Latin 109 or equivalent preparation.

301. *Livy*—5 hours. Prerequisite: Latin 109 or equivalent preparation.

401. *Plautus, 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 109 or equivalent preparation.

402. *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 109 or equivalent preparation.

302. *Latin Composition*—5 hours. Prerequisite: Latin 109 or equivalent preparation.

403. *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 301. Prerequisite: Latin 109 or equivalent preparation.

490. *The Teaching of Latin*—3 hours. This course has been approved as a course in education for a student whose major is Latin. Prerequisite: Latin 109 or equivalent preparation and Education 460.

4. Spanish

Ten hours of work from French 301 to 410, 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 or equivalent preparation may take courses from the 300 group in the freshman year and courses from the 400 group (except Spanish 490) in the sophomore year.

101. *Spanish I—5 hours. A course for beginners.

102. *Spanish II—5 hours. Continuation of Spanish I.

103. *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.

301. *Spanish Prose*—3 hours. Selections from fiction and drama of the nineteenth century. Prerequisite: two years of high-school Spanish or equivalent preparation.

302. *Spanish Short Stories*—2 hours. Prerequisite: two years of high-school Spanish or equivalent preparation.

303. *Modern Spanish Novel*—3 hours. Prerequisite: Spanish 301 and 302 or equivalent preparation.

* Spanish 103 must be completed before credit for Spanish I or II may be used in meeting the requirements for graduation.

304. Spanish and Spanish-American Life—2 hours. Lectures on the life and customs of the Spanish people and their contribution to civilization. Prerequisite: Spanish 301 and 302 or equivalent preparation.

305. Contemporary Spanish Drama—3 hours. Plays of Benavente, Martinez-Sierra, and Quintero. Prerequisite: Spanish 301 and 302 or equivalent preparation.

306. Composition and Conversation—2 hours. Prerequisite: Spanish 301 and 302 or equivalent preparation.

401. Don Quixote—3 hours. The life of Cervantes. Selected chapters of the Don Quixote with reports on additional reading. Prerequisite: Spanish 301 and 302 or equivalent preparation.

402. History of Spanish Literature—2 hours. General survey course with emphasis upon important literary movements and writers. Prerequisite: Spanish 301 and 302 or equivalent preparation.

403. Spanish Classical Drama—3 hours. Study of Lope de Vega and Tirso de Molina. Prerequisite: Spanish 301 and 302 or equivalent preparation.

404. Calderon—2 hours. Prerequisite: Spanish 301 and 302 or equivalent preparation.

405. Galdos—3 hours. Novels and plays of Galdos. Prerequisite: Spanish 305 or equivalent preparation.

406. 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 305 and 306 or equivalent preparation.

490. The Teaching of Spanish—2 hours. Prerequisite: Spanish 305 and 306 or equivalent preparation and Education 460.

5. Greek

301. *The Elements of Greek—5 hours. A course for beginners.

302. *Xenophon—5 hours. Selections from the Anabasis. Writing of Greek.

303. Homer—5 hours. Selections from the Iliad.

401. Homer, Greek Drama, Greek Prose Writers—3 to 10 hours.

MATHEMATICS AND COMMERCIAL EDUCATION

1. Mathematics

Advanced Mechanics and Alternating Currents (Physics 340 and 441), though not included in the mathematics major line, may be used in meeting the requirements of a major in mathematics.

100. Mathematics I, College Algebra—5 hours.

101. Mathematics II—5 hours. Theory of trigonometry and continuation of college algebra. Prerequisite: Mathematics 100.

* Greek 303 must be completed before credit for Greek 301 or 302 may be used in meeting the requirements for graduation.

102. **Mathematics III**—5 hours. Analytical geometry and allied topics. Prerequisite: Mathematics 101.

300. **Calculus I**—5 hours. Differential and integral calculus with applications. Prerequisite: Mathematics 102.

301. **Calculus II**—5 hours. Continuation of Calculus I.

302. **Calculus III**—5 hours. Taylor's theorem, series, theorem of the mean, partial differentiation surfaces, practical applications, easy differential equations. Prerequisite: Mathematics 301.

303. **Spherical Trigonometry**—2 hours. Prerequisite: Mathematics 101.

304. **Surveying**—3 hours. Principles and operations; field practice in measurement; leveling. Four periods a week. Prerequisite: Mathematics 101.

305. **Modern Geometry A, Projective Geometry**—3 hours. Prerequisite: Mathematics 101.

306. **Modern Geometry B, Advanced Euclidian Geometry**—2 hours. Prerequisite: Mathematics 101.

307. **Mathematics of Finance**—3 hours. Sinking funds, depreciation, bonds, building and loan associations, and life insurance.

400. **Theory of Equations**—5 hours. The complex number and the system of numbers based upon the imaginary unit; the analytic criterion 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: Mathematics 300.

401. **Theoretical Mechanics A**—3 hours. Principles of dynamics and their application in the field of mathematical physics. Prerequisite: Mathematics 300.

402. **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: Mathematics 300.

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

404. **Modern Algebra**—5 hours. Analytical trigonometry, hyperbolic functions, vectors, and introduction to functions of a complex variable. Prerequisite: Mathematics 300.

405. **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: Mathematics 301.

406. **Statistical Measurement**—5 hours. Introduction to the mathematics of statistical methods. Some knowledge of calculus is desirable. Prerequisite: Mathematics 100 and 101 or equivalent preparation.

407. **History of Mathematics**—3 hours. Prerequisite: Mathematics 102.

10. Principles of Elementary Mathematics I—5 hours. Credit only on the curricula for teachers in grades above the primary and for teachers in rural 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.

408. Principles of Elementary Mathematics II—3 hours. Organization of subject matter; the relation of arithmetic to the whole curriculum; evaluation of teaching procedures; the testing program.

490. The Teaching of Secondary Mathematics—5 hours. This course has been approved as a course in education for a student whose major is mathematics. Prerequisite: two courses in college mathematics and Education 460.

2. Commercial Education

A major in commercial education must include Commercial Education 154 and 155 or 155 and 156, 38 hours of elective work in commercial education, and one term of penmanship.

Money and Banking (Economics 354), 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 (Earth Science 62).

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Commercial Education, see page 40.

50. *Shorthand I—5 hours. No credit for a student who presents entrance credit for 1 unit of shorthand. Principles of the Gregg System. Prerequisite: Commercial Education 154 or equivalent preparation.

51. Shorthand II—5 hours. Plate reading and dictation. Prerequisite: Commercial Education 50 or equivalent preparation.

150. Shorthand III—5 hours. Dictation, reporting, transcription of letters and lectures.

151. 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.

152. 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: Commercial Education 151.

153. 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: Commercial Education 152.

350. 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.

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

154. ***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.

155. ***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: Commercial Education 154 or equivalent preparation.

156. ***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: Commercial Education 155 or equivalent preparation.

01. **Penmanship A**—Drill credit. Muscular movement in writing with special attention to the teaching of penmanship. Daily.

02. **Penmanship B**—Drill credit. Continuation of Penmanship A.

352. **Commercial Correspondence**—5 hours. Preparation and use of business letters and reports.

353. **Advertising**—3 hours. The inception of advertising ideas and their development. The planning and preparing of advertisements.

354. **Commercial Law I**—5 hours.

450. **Commercial Law II**—3 hours. Prerequisite: Commercial Education 354.

451. **Secretarial Training I**—3 hours. Qualifications and duties of a secretary. Arrangement of office equipment.

452. **Secretarial Training II**—2 hours. The Library Bureau system of alphabetic, numeric, geographic, and automatic-numeric filing.

453. **Retail Merchandising**—3 hours. Establishing a business, locating the store, financing, buying, pricing, advertising, selling, accounting, business forecasting.

454. **Salesmanship**—2 hours. Selling problems of manufacturers, wholesalers, and retailers.

455. **Marketing**—3 hours. Activities involved in transferring goods from producer to consumer.

456. **Business Organization**—2 hours. Theory and practice of business organization.

457. **Business Ethics**—2 hours.

458. **Business Publications**—1 hour. Current business magazines and new books on commercial subjects. Lectures, readings, and reports.

459. **History of Commerce**—2 hours. Origin and development of domestic and foreign commerce.

460. **Methods in Junior Business Training**—3 hours. Clerical practices and office procedures on a level with the occupational opportunities of high school students.

* 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.

461. **Problems in Commercial Education**—2 hours. Field and objectives of commercial education; selection and organization of subject matter; equipment of commercial departments; community surveys and vocational guidance in cooperation with business firms; testing and remedial work.

495. **The Teaching of Shorthand and Typewriting**—3 hours. This course has been approved as a course in education 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: Commercial Education 50, 51, 150, 154, 155, 156; and Education 460.

496. **The Teaching of Bookkeeping**—2 hours. This course has been approved as a course in education 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 Commercial Education 151, 152, 153; and Education 460.

MUSIC

A major in music must include Music 01, 02, 03, 13, 14, 15, 16, 311, 312, 313, 314, 315, 316, 317, 318, 407, 408, 409, 412, and 12 hours of Applied Music I-VI.

A minor in music must include Music 13, 14, 15, 312, 313, 314, 408, 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 43.

A major in orchestral and band music must include Music 01, 02, 03, 13, 14, 16, 315, 316, 317, 318, 319, 403, 404, 405, 410, 411, 412, 413, *3 hours of Piano, **12 hours of Applied Music VII-XV, and one course from Music 300, 301, 302, 303, 304, or 305.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Orchestral and Band Music, see page 44.

01. **Supervisors Violin A**—Drill credit. Class work in violin. Two periods a week.

02. **Supervisors Violin B**—Drill credit. Continuation of Supervisors Violin A. Two periods a week. Prerequisite: Music 01.

03. **Supervisors Violin C**—Drill credit. Continuation of Supervisors Violin B. Two periods a week. Prerequisite: Music 02.

Open only to a student whose major is music or orchestral and band music and to a student who is on the curriculum leading to the degree of Bachelor of Science in Music or to the degree of Bachelor of Science in Orchestral and Band Music.

10. **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 13. Introductory course in school music consisting of singing, rhythmic development, and elementary theory. Preparation for sight singing. Daily.

* With the consent of the Head of the Department of Music 3 hours of Organ or of other courses in the Department of Music may be substituted for Piano.

** With the consent of the Head of the Department of Music four years of credit in Piano or Organ or both may be substituted for work in Applied Music VII-XV.

11. **Music for Kindergarten-Primary Grades**—2½ hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. No credit for a student who has credit for Music 13 or 14. Daily. Prerequisite: Music 10 or equivalent preparation.

12. **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 13 or 14. Training in singing; essentials of theory; sight singing, ear training, and dictation; elementary conducting. Three periods a week. Prerequisite: Music 10 or equivalent preparation.

13. **Music I**—3 hours. No credit for a student who has credit for Music 10, 11, or 12. Singing and rhythmic development; elementary theory; notation; preparation for sight singing. Dalcroze eurythmics.

14. **Music II**—3 hours. Staves and clefs; rhythms; interval drills; notation through dictation and sight reading by letter.

15. **Sight Singing**—3 hours. Use of material for the elementary grades.

311. **Ear Training and Dictation**—3 hours. Development of simple creative rhythmic, melodic, and harmonic expression and appreciation.

312. **Music Methods I**—2 hours. Methods for primary grades. Prerequisite: Music 13, 14, 15.

313. **Music Method II**—3 hours. Methods for upper grades. Prerequisite: Music 13, 14, 15.

314. **Choral Conducting**—2 hours. Practice in conducting glee clubs and choruses. Study of materials.

407. **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.

408. **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. *A capella* singing. Prerequisite: Music 314.

409. **Music Supervision**—2 hours. Problems involved in supervising and improving school music instruction. Measurement of music talent and music achievement.

315. **History of Music I**—2 hours. Survey of music among primitive peoples; early church music; troubadours and minnesingers; the invention of opera; music from Bach to Weber.

316. **History of Music II**—3 hours. Development of romanticism; program music; music from Mendelssohn to Richard Strauss.

401. **History of Music III**—2 hours. Modern music in Italy, France, Russia, Scandinavia, England, and America.

16. **Harmony I**—3 hours. Major and minor scales developed on the keyboard and the staff; intervals; primary triads, inversions, and ca-

dences; secondary triads and inversions; melodies and harmonizations; keyboard patterns.

317. **Harmony II**—3 hours. Dominant seventh chords, inversions, resolutions; dominant ninth chords; supertonic and leading tone sevenths; modulation by means of common chords. Prerequisite: Music 16.

318. **Harmony III**—3 hours. Secondary seventh chords, altered chords, melodic ornamentations, advanced modulations, advanced analysis. Prerequisite: Music 317.

319. **Harmony IV**—3 hours. Emphasis upon analysis and keyboard transposition. The writing and improvising of accompaniments. Use of various clefs. Prerequisite: Music 318.

403. **Counterpoint I**—2 hours. Melodic progressions, clefs, two-part counterpoint in all species. Prerequisite: Music 16, 317, 318, and 319.

404. **Counterpoint II**—2 hours. Three-part counterpoint in all species. Prerequisite: Music 403.

405. **Counterpoint III**—2 hours. Four-part counterpoint in all species. Florid counterpoint. Prerequisite: Music 404.

406. **Music Form and Analysis**—3 hours. Study of forms used in musical compositions. Analysis of compositions by the masters. Prerequisite: Music 16, 317, 318, and 319.

410. **Orchestration**—3 hours. Study, arrangement, and preparation of orchestra scores. Prerequisite: Music 16, 317, 318, and 3 hours of credit in applied music other than voice.

411. **Band Instrumentation**—2 hours. Arrangement and preparation of band scores. Prerequisite: Music 16, 317, 318, 319, and 3 hours of credit in applied music other than voice.

414. **Composition I**—1 hour. The phrase and its development and harmonic equipment. The period form single and double. Prerequisite: Music 16, 317, 318, and 319.

415. **Composition II**—1 hour. The song forms or the two- and three-part song forms. Prerequisite: Music 414.

416. **Composition III**—1 hour. Compound song forms and various styles of composition in homophonic forms. Prerequisite: Music 415.

300. **Orchestral Instruments I**—1 hour. Cello.

301. **Orchestral Instruments II**—1 hour. Bass.

302. **Orchestral Instruments III**—1 hour. Clarinet.

303. **Orchestral Instruments IV**—1 hour. Trumpet, French Horn, Trombone.

304. **Orchestral Instruments V**—1 hour. Flute, Saxophone, Percussion.

305. **Orchestral Instruments VI**—1 hour. Oboe, Bassoon.

Study of instrument in class; selection of instrument; methods of instruction. Two periods a week. Prerequisite: 3 hours of credit in applied music other than voice.

412. **Orchestra Conducting**—3 hours. Problems in conducting school orchestras. Baton technique, score reading, practice conducting, survey of materials. Prerequisite: 3 hours of credit in applied music other than voice.

413. **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.

417. **Ensemble I**—1 hour.

418. **Ensemble II**—1 hour.

419. **Ensemble III**—1 hour.

Credit only on the 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.

428. **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 the student's major instrument.

100. **Applied Music I**—the 1st, 2nd, and 3rd terms of work in Voice.

320. **Applied Music II**—the 4th, 5th, and 6th terms of work in Voice.

420. **Applied Music III**—the 7th to 12th terms of work in Voice.

101. **Applied Music IV**—the 1st, 2nd, and 3rd terms of work in Piano or Organ.

321. ***Applied Music V**—the 4th, 5th, and 6th terms of work in Piano or Organ.

421. ***Applied Music VI**—the 7th to 12th terms of work in Piano or Organ.

102. **Applied Music VII**—the 1st, 2nd, and 3rd terms of work in a stringed instrument.

322. ****Applied Music VIII**—the 4th, 5th, and 6th terms of work in a stringed instrument.

422. ****Applied Music IX**—the 7th to 12th terms of work in a stringed instrument.

103. **Applied Music X**—the 1st, 2nd, and 3rd terms of work in a wood-wind or brass instrument.

* In the 4th to 12th terms of work in Piano or in Organ a student on the 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.

With the consent of the Head of the Department of 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 (with 12 to 21 hours of credit) for the required work in Applied Music VII to XV.

** In the 4th to 12th terms of work in one instrument of Applied Music VII to XV 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.

323. ****Applied Music XI**—the 4th, 5th, and 6th terms of work in a wood-wind or brass instrument.

423. ****Applied Music XII**—the 7th to 12th terms of work in a wood-wind or brass instrument.

104. **Applied Music XIII**—the 1st, 2nd, and 3rd terms of work in a percussion instrument.

324. ****Applied Music XIV**—the 4th, 5th, and 6th terms of work in a percussion instrument.

424. ****Applied Music XV**—the 7th to 12th terms of work in a percussion instrument.

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.

NATURAL SCIENCE

1. Biological Science

A major in biological science must include Biological Science 100, 108 or 400, 102, 302 or 304, 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.

A minor in biological science must include Biological Science 100 and 102.

Biological Science 11, 100, 102, 108, 300, 302, 304, 400, 402, 404, 406, and 408 are courses in laboratory science.

10. Nature Study, General Science A—5 hours. Credit only on the one-year curriculum for teachers in rural schools, on the two-year curricula, and for a student whose major is nursery school-kindergarten education, kindergarten-primary education, or elementary education. Rocks, minerals, soils, insects, birds, and trees. Recitations, 3 periods a week; laboratory work, 4 periods a week. Each term.

100. Animal Biology—5 hours. Life processes and structure of animals. Recitations, 3 periods a week; laboratory work, 4 periods a week. Each term.

108. Invertebrate Zoology—5 hours. Anatomy and physiology of several type-forms in each division of invertebrate animals. Recita-

****** In the 4th to 12th terms of work in one instrument of Applied Music VII to XV 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.

tions, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Biological Science 100.

400. **Vertebrate Zoology**—5 hours. The classes of vertebrates with particular reference to their origin, development, anatomy, and physiology. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Biological Science 100. Spring term.

402. **Insects and Man**—3 hours. Recitations, 2 periods a week; laboratory work, 2 periods a week. Prerequisite: Biological Science 100.

11. **Physiology**—5 hours. 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. Each term.

12. **Health Education**—3 hours. No credit for a student who has credit for Biological Science 300. Personal, community, and school hygiene. Aims and methods of health education. Each term.

300. **Hygiene and Sanitation**—5 hours. No credit for a student who has credit for Biological Science 12. Personal hygiene. Sanitation. School health problems: heating, lighting, ventilation, spread of communicable diseases. Recitations, 3 periods a week; laboratory work, 4 periods a week.

102. **Plant Biology**—5 hours. Life processes and structure of plants. Recitations, 3 periods a week; laboratory work, 4 periods a week. Fall and spring terms.

302. **Plant Morphology**—5 hours. Morphology and evaluation of a group of plants, with special emphasis upon algae, fungi, mosses, and ferns. Recitations, 3 periods a week; laboratory work, 4 periods a week. Winter term.

304. **Plant Taxonomy**—5 hours. Identification, field recognition, and economic importance of seed plants of our local flora. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: entrance credit in botany, or Biological Science 102.

404. **Plant Physiology**—5 hours. Physiological processes of plants with emphasis upon plant metabolism. Responses of plants to stimuli. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Biological Science 102. Fall 1935 and alternate years.

406. **Plant Ecology**—5 hours. Effects of environment upon plant growth and plant distribution. Application of ecology to crop production. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Biological Science 102. Fall 1936 and alternate years.

408. **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. Winter term.

410. **Organic Evolution**—2 hours. Meaning, evidences, and factors of organic evolution; its significance in biology and in modern thought.

412. **Heredity**—3 hours. Laws of heredity and their relation to plants, animals, and man. Significance of heredity to the human race.

490. **The Teaching of the Biological Sciences**—3 hours. Recitations, 2 periods a week; laboratory work, 2 periods a week. Prerequisite: 15

hours of biological science including botany and biology, and Education 460.

2. Earth Science

A major in earth science must include 30 hours of work selected from the following courses: Earth Science 60, 160, 162, 360, 366, 460, 462, 463, 464, 466, and 468.

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 460 is a course in laboratory science.

60. Principles of Physiography—5 hours. Agencies at work in producing land forms; life as affected by physical environment; interpretation of topographic maps. Field trips.

160. Principles of Geology—5 hours. Origin, history, and structure of the earth. Present processes and changes. Winter term.

460. Mineralogy—5 hours. Descriptive and determinative mineralogy. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: 5 hours of inorganic chemistry. Fall term.

462. Climatology—5 hours. Composition and physics of the air; weather forecasting; map making; instruments used in gathering data. Spring term.

360. Astronomy—5 hours. A course in descriptive astronomy. Uses of various astronomical instruments. Spring term.

162. Elements of Geography—5 hours. A survey of man's occupation of the earth developed through the classification and distribution of the major types of natural environment and man's utilization of the resources in each type. Each term.

463. The Teaching of Geography—5 hours. Selection and organization of geographic materials for presentation in grades four to nine inclusive. Prerequisite: 5 hours of college work in geography. Spring term.

62. 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. Commodities of international trade; trade routes of the world; ocean transportation. Winter term.

364. Geography of Europe—5 hours. Regional study of the continent of Europe. Analysis of the geographic individualities of the major countries. Fall term.

366. Geography of North America—5 hours. Description, analysis, and interpretation of the present occupation pattern of the major regions of the United States. Brief survey of Canada, Mexico, and the Caribbean regions. Winter term.

464. Geography of South America—5 hours. Designed to develop an understanding of the geographic individuality of each of the major countries of South America. Prerequisite: Earth Science 162, 364, or 366. Fall term.

466. **Historical Geography of the United States**—5 hours. Geography of the major regions of the United States in past times. A study of successive stages in land occupance. Prerequisite: entrance credit or college credit in American history. Winter term.

468. **Conservation of Natural Resources**—5 hours. Natural resources of the United States and their exploitation. Current problems related to their conservation. Spring term.

3. Agriculture

A major in agriculture must include Agriculture 380, 382, 386, 484, 487, 488, and at least 14 hours of additional work in agriculture; and Earth Science 60 and 462.

The work of a student whose major is agriculture must include Government 132 and Economics 152.

For the requirements of the special curriculum leading to the degree of Bachelor of Science in Agriculture, see page 39.

180. **Soils**—3 hours. Management of soils for maximum production. Recitations, 2 periods a week; laboratory work, 2 periods a week. Spring term.

480. **Soil Fertility**—2 hours. Winter term.

80. **Forage Crops**—5 hours. Important forage crops of Iowa and their production. Recitations, 3 periods a week; laboratory work, 4 periods a week.

82. **Grain Crops**—5 hours. Important grain crops of Iowa and their production. Recitations, 3 periods a week; laboratory work, 4 periods a week.

182. **Horticulture**—2 hours. Management of orchard, bush, and small fruits. Harvesting and marketing. Recitation, 1 period a week; laboratory work, 2 periods a week. Spring term.

380. **Dairy Cattle**—3 hours. Types and breeds. Judging and marketing. Recitations, 2 periods a week; laboratory work, 2 periods a week. Fall term.

382. **Beef Cattle and Sheep**—3 hours. Types, breeds, grades. Judging and marketing. Recitations, 2 periods a week; laboratory work, 2 periods a week. Spring term.

384. **Horses**—2 hours. Types, breeds, classes, grades. Judging. Recitation, 1 period a week; laboratory work, 2 periods a week. Spring term.

386. **Swine**—2 hours. Types, breeds, market classes, grades. Judging and marketing. Recitation, 1 period a week; laboratory work, 2 periods a week. Fall term.

484. **Farm Poultry**—2 hours. Breeds and varieties. Management. Recitation, 1 period a week; laboratory work, 2 periods a week. Fall term.

485. **Feeds and Feeding**—3 hours. Balanced rations. Methods of feeding farm animals. Winter term.

486. **Principles of Breeding**—2 hours. Laws of breeding and care of breeding stock. Winter term.

487. **Farm Management**—3 hours. Winter term.

488. **Marketing Agricultural Products**—3 hours. Grain, live stock, and produce marketing, with emphasis upon coöperative methods, Fall term.

494. **Methods in Agriculture**—5 hours. Prerequisite: 10 hours of agriculture and Education 460. Spring term.

PHYSICAL EDUCATION FOR MEN

A major in physical education for men must include Physical Education 300, 372, 455, 456, 457, 471, 472, 473, Football—5 or 6 hours, Basketball—5 or 6 hours, Baseball—2 or 3 hours, and Track and Field—2 or 3 hours.

The work of a student whose major is physical education for men must include Biological Science 11, 100, and 300.

Biological Science 11 and 300, 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 Physical Education 455, 456, 457, 473; and courses in Football, Baseball, Basketball, Track and Field; and electives to make a total of at least 20 hours.

The required work in teaching should include 5 hours of teaching in subjects other than 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 01.

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

01. Physical Education

The work in Physical Education 01 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.

471. **History and Principles of Physical Education**—3 hours.

300. **Anatomy**—5 hours. Gross anatomy of the osseous, muscular, and nervous systems and of the vital organs.

410. **Physiology of Exercise**—3 hours. Effects of exercise upon the various organic functions of the body. Comparison of strength, speed, and endurance exercises. Prerequisite: Physical Education 300 and Biological Science 11.

372. **Athletic Training and Conditioning**—2 hours. Diet; treatment of injuries; massage and bandaging; lectures, demonstrations, and practice. Prerequisite: Physical Education 300 and Biological Science 11.

351. **Football I**—3 hours. Theory and practice, 10 periods a week.

451. **Football II**—3 hours. Prerequisite: Physical Education 351. Theory and practice, 10 periods a week.

461. **Football III**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Summer term.
352. **Basketball I**—3 hours. Theory and practice, 10 periods a week.
452. **Basketball II**—3 hours. Prerequisite: Physical Education 352. Theory and practice, 10 periods a week.
462. **Basketball III**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Summer term.
353. **Baseball I**—3 hours. Theory and practice, 10 periods a week.
453. **Baseball II**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Summer term.
354. **Track and Field I**—3 hours. Theory and practice, 10 periods a week.
454. **Track and Field II**—2 hours. A course for coaches. Theory and practice, 5 periods a week. Summer term.
460. **Mass Athletics**—2 hours. Theory and practice, 5 periods a week.
455. **Gymnastics**—2 hours. Gymnastic marching. Elementary exercises on bars, horse, mats, and other apparatus. Theory and practice, 5 periods a week.
458. **Wrestling**—2 hours. Theory and practice, 5 periods a week.
456. **Swimming**—2 hours. Theory and practice, 5 periods a week.
457. **Activities for Schools**—2 hours. Activities suitable for the growing child at different age levels. Theory and practice, 5 periods a week.
459. **Recreational Activities**—2 hours. City, county, state, and national organizations promoting recreational activities. Playground equipment and programs. Theory and practice, 5 periods a week.
473. **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.
472. **Methods in Physical Education**—5 hours. Theory and practice, 10 periods a week.

PHYSICAL EDUCATION FOR WOMEN

A major in physical education for women must include Physical Education 100, 300, 301, 302, 400, 401, 402, 403, 404, 406, 407, 408, and 409.

The work of a student whose major is physical education for women must include 5 hours of teaching in subjects other than physical education; Biological Science 11 and 100; Physics 51; Chemistry 30 and 31; and four courses in Physical Education 01 each term unless the student is released by the adviser from work in excess of the general requirement in Physical Education 01. 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 Physical Education 300, 302 or 400; 5 hours of work selected from Courses 401,

402, 403, and 404; and at least 5 hours of elective work in physical education for women.

With the consent of the adviser a student may register for four courses in Physical Education 01 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 46.

01. Physical Education

The work in Physical Education 01 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, 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, life saving, 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.

300. Anatomy—5 hours. Gross anatomy of the osseous, muscular, and nervous systems and of the vital organs. Winter and summer terms.

301. Kinesiology—3 hours. Body mechanics in relation to physical development and efficiency. Prerequisite: Physical Education 300. Spring term.

302. Principles of Physical Education—5 hours. Objectives, program, and methods of physical education. This course must be accompanied by The Technique of Gymnastics. Fall and summer terms.

10. 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 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.

400. ***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. Fall term.

401. **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. Winter term.

303. **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. Spring and summer terms.

304. **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. Summer term.

402. ***The Teaching of Basketball and Swimming**—3 hours. This course must be accompanied by Advanced Basketball. Winter term.

403. ***The Teaching of Hockey, Soccer, and Tennis**—2 hours. This course must be accompanied by Advanced Hockey. Fall term.

404. ***The Teaching of Baseball and of Track and Field**—3 hours. This course must be accompanied by Advanced Baseball and Track and Field. Spring term.

405. **Tests and Measurements in Physical Education**—2 hours. Prerequisite: Education 325. Spring term.

406. **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. Spring term.

407. **School Health Problems**—5 hours. No credit for a student who has credit for Biological Science 12 or 300. 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: Physical Education 300 and Biological Science 11. Fall term.

100. **First Aid to the Injured**—2 hours. Students may prepare themselves in this course for the examination for a Red Cross first aid certificate.

408. **Therapeutic Exercises and Massage**—3 hours. Prerequisite: Physical Education 300, 301, and Biological Science 11. Fall term.

409. **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. Pre-

* 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.

requisite: Physical Education 300 and Biological Science 11. Winter term.

410. ***Physiology of Exercise**—3 hours. Effects of exercise upon the various organic functions of the body. A comparison of strength, speed, and endurance exercises. Prerequisite: Physical Education 300 and Biological Science 11. Spring term.

PHYSICS AND CHEMISTRY

1. Physics

A major in physics must include 30 hours of work from Physics 41, 42, 140, 340, 341, 342, 343, 440, 441, 442, 443, 444, and 492.

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.

Physics 40, 41, 42, 51, 140, 150, 340, 341, 342, 343, 440, 441, 442, 443, and 492 are courses in laboratory science.

40. **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.

41. **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.

42. **General Physics II**—5 hours. No credit for a student who presents entrance credit for 1 unit of physics. Continuation of General Physics I with a study of heat, electricity, and magnetism. Recitations, 3 periods a week; laboratory work, 4 periods a week.

140. **Mechanics**—5 hours. No credit for a student who has credit for Physics 41. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: high-school physics or equivalent preparation.

340. **Advanced Mechanics**—3 hours. Experimental problems preceded by brief discussion of the principles involved. Laboratory work, 6 periods a week. Prerequisite: Physics 140 or equivalent preparation.

341. **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: Physics 41 and 42, or Physics 140, or equivalent preparation.

342. **Advanced Course in Light**—3 hours. Experimental problems preceded by discussion of the principles involved. Laboratory work, 6 periods a week. Prerequisite: Physics 341 or equivalent preparation.

* 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.

343. **Heat, Electricity, and Magnetism**—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Physics 41 and 42, or Physics 140, or equivalent preparation.

440. **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: Physics 343 or equivalent preparation.

441. **Alternating Currents**—5 hours. 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: Physics 140 and 343.

442. **Modern Physics I**—5 hours. Introductory course in radioactive and electronic phenomena. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Physics 140 and 343.

443. **Modern Physics II**—5 hours. Continuation of Modern Physics I. Recitations, 3 periods a week; laboratory work, 4 periods a week.

444. **The History of Physics**—2 hours. Prerequisite: 10 hours of college physics.

492. **The Teaching of Physics**—3 hours. This course has been approved as a course in education for a student whose major is physics. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: 10 hours of college physics and Education 460.

Special Courses in Physics

50. **Everyday Physical Science, General Science B**—5 hours. No credit for a student who has credit for Physics 40. Credit only on the one-year curriculum for teachers in rural schools, on the two-year curricula, and for a student whose major is nursery school-kindergarten education, kindergarten-primary education, or elementary education. Phenomena of inanimate nature in the student's environment. The more common appliances in the home and elsewhere. Recitations, 4 periods a week; laboratory work, 2 periods a week.

150. **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. Recitations, 4 periods a week; laboratory work, 2 periods a week.

51. **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.

2. Chemistry

A major in chemistry must include 30 hours of work from Chemistry 121, 122, 123, 124, 321, 322, 323, 324, 325, 326, 327, 328, 421, 422, 423, 424, 425, 426, and 491.

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.

With the exception of Chemistry 424, all courses in chemistry are courses in laboratory science.

Students beginning chemistry and expecting to take more than one term of chemistry should begin with Chemistry 121.

20. 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.

121. *Inorganic Chemistry I—5 hours. Recitations, 3 periods a week; laboratory work, 4 periods a week.

122. *Inorganic Chemistry II—5 hours. Continuation of Inorganic Chemistry I. Recitations, 3 periods a week; laboratory work, 4 periods a week.

123. Chemistry of Nonmetals—5 hours. No credit for a student who has credit for Chemistry 121 or 122; or for Chemistry 130 or 131. A condensed course for students who present entrance credit for 1 unit of chemistry or who have credit for Chemistry 20. Recitations, 3 periods a week; laboratory work, 4 periods a week.

124. Chemistry of Metals and Qualitative Analysis—5 hours. Introduction to the study of the properties of the metallic elements. Recitations, 2 periods a week; laboratory work, 6 periods a week. Prerequisite: Chemistry 122 or 123 or 131.

321. Organic Chemistry—5 hours. Essentials of organic chemistry. Recitations, 3 periods a week; laboratory work, 4 periods a week. Also open to freshmen who have credit for Chemistry 123. Prerequisite: Chemistry 121 and 122 or 130 and 131.

322. Organic Preparations I—3 hours. Synthesis of typical compounds representative of organic reactions. Laboratory work, 6 periods a week. Prerequisite: Chemistry 321.

323. Organic Preparations II—2 hours. Continuation of Organic Preparations I. Laboratory work, 4 periods a week.

324. Quantitative Analysis I—3 hours. Elementary principles of gravimetric analysis. Laboratory work, 6 periods a week. Prerequisite: Chemistry 124.

325. Quantitative Analysis II—2 hours. Quantitative Analysis I must precede or accompany this course. Laboratory work, 4 periods a week.

326. Quantitative Analysis III—3 hours. Volumetric analysis. Laboratory work, 6 periods a week. Prerequisite: Chemistry 122 or 123 or 131.

327. Quantitative Analysis IV—2 hours. Quantitative Analysis

* No credit for a student who presents entrance credit for 1 unit of chemistry or who has credit for Chemistry 20.

III must precede or accompany this course. Laboratory work, 4 periods a week.

421. **Water Analysis I**—2 hours. Analysis of drinking water from the point of view of the sanitary chemist. Laboratory work, 4 periods a week. Prerequisite: Chemistry 124.

422. **Water Analysis II**—3 hours. Determination of the mineral content of waters. The evaluation of softening processes. Laboratory work, 6 periods a week. Prerequisite: Chemistry 124.

423. **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.

424. **Physical Chemistry**—3 hours. Prerequisite: Chemistry 124.

328. **Chemistry of Foods and Nutrition**—3 hours. Essentials of physiological chemistry. The chemical composition of foods. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: Chemistry 321.

425. **Advanced Chemistry of Nutrition**—2 hours. Recitation, 1 period a week; laboratory work, 2 periods a week. Prerequisite: Chemistry 31 or 328.

426. **Food Analysis**—5 hours. Proximate quantitative analysis of the common foods. Recitations, 2 periods a week; laboratory work, 6 periods a week. Prerequisite: Chemistry 321.

491. **The Teaching of Chemistry**—3 hours. This course has been approved as a course in education for a student whose major is chemistry. Recitation, 1 period a week; laboratory work, 4 periods a week. Prerequisite: 10 hours of chemistry and Education 460.

Special Courses in Chemistry

30. **Elementary Inorganic and Organic Chemistry**—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.

31. **Physiological Chemistry**—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. Chemistry of digestion, metabolism, muscular action, and other physiological processes. Recitations, 3 periods a week; laboratory work, 4 periods a week. Prerequisite: Chemistry 30.

130. **Inorganic Chemistry A**—5 hours. No credit for a student who presents entrance credit for 1 unit of chemistry or who has credit for Chemistry 20 or 121 or 122. 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. Recitations, 3 periods a week; laboratory work, 4 periods a week.

131. **Inorganic Chemistry B**—5 hours. No credit for a student who presents entrance credit for 1 unit of chemistry or who has credit for Chemistry 20 or 121 or 122. 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. Continuation of Inorganic Chemistry A. Recitations, 3 periods a week; laboratory work, 4 periods a week.

SOCIAL SCIENCE

1. History

A major in history must include History 14, 304, 404; Government 132; Economics 152; and 20 hours of additional work in history 15 hours of which must be selected from History 12, 102, 104, 302, 402, 406, and 408.

The work of a student whose major is history must include Sociology 358 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 14, 302, 304, 402, and 404.

402. **Greek and Roman Civilization**—5 hours. Contributions of Greek and Roman civilization to human progress. Fall term.

12. **European History, 400-1650**—5 hours. Survey course with emphasis upon the movements most important for their influence on later periods. Fall term.

302. **European History, 1650-1815**—5 hours. Survey course with emphasis upon the French Revolution and the Napoleonic period. Fall term.

404. **European History since 1815**—5 hours. Introduction to current national and international problems. Winter term.

406. **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.

102. **English History to 1688**—5 hours. Fall term.

104. **English History since 1688**—5 hours. Winter term 1935-36 and alternate years.

408. **The British Empire**—5 hours. Spring term.

410. **The Far East**—3 hours. Brief course including recent history of China, Japan, and India. Winter term 1935-36 and alternate years.

14. **American History to 1865**—5 hours. Foreign relations, westward expansion, development of democracy, growth of nationalism, and sectional controversies. Each term.

304. **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. Each term.

306. **American Colonial History**—5 hours. Founding of the American colonies; evolution of economic, social, and governmental institutions; various phases of the independence movement. Spring term.

412. **Diplomatic History of the United States**—5 hours. American foreign relations with emphasis upon the Monroe Doctrine, rights of neutrals, territorial expansion, and peaceful solutions of disputes. Prerequisite: 5 hours of American history. Winter term.

414. **History of the West**—5 hours. The westward moving frontier and its influence upon American history. Prerequisite: 5 hours of American history.

308. **American Constitutional History**—5 hours. The development of the Constitution of the United States from its adoption to the present time. Prerequisite: Government 132 or a course in American history. Fall term.

106. **History of Iowa**—2 hours. Fall and spring terms.

416. **Latin-American History**—3 hours. The development of the Latin-American States and their relations to the United States. Winter term 1935-36 and alternate years.

490. **The Teaching of the Social Sciences**—5 hours. This course has been approved as a course in education for a student whose major is history or government or economics and sociology. Prerequisite: 15 hours of social science and Education 460. Fall term.

2. Government

A major in government must include Government 132, 342, 438; History 304; Economics 152; and 15 hours of additional work from courses in government.

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.

332. **Principles of Political Science**—5 hours. No credit for a student who has credit for American Political Theories. Nature, origin, and sovereignty of the state; relation of a state to other states; separation of the powers of the state; authority of the state over the individual. Spring term 1936 and alternate years.

132. **American Government**—5 or *3 hours. The republican form of government and the constitution of Iowa and of the nation. The organization and actual workings of the American government in all of its branches.

336. **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: Government 132. Winter term 1935-36 and alternate years.

432. **Local Government**—2 hours. County, township, and village government in the United States. Winter term 1935-36 and alternate years.

434. **Municipal Government**—5 hours. Structure and functions of city government. Relation of the city to the state. Fall term.

338. **State Government and Administration**—3 hours. Comparative study of the organization and administration of state government in the United States. Fall term 1935 and alternate years.

436. **National Government and Administration**—3 hours. Intensive study of the legislative, executive, and judicial powers and procedures of the national government. Prerequisite: Government 132. Winter term 1936-37 and alternate years.

* The three-hour course is credit only on the one-year curriculum for teachers in rural schools and on the two-year curricula.

340. **Political Parties**—3 hours. Origin, organization, and operation of political parties in the United States. Fall term 1936 and alternate years.

342. **Modern European Governments**—5 hours. Comparative study of the organization and administration of the governments of England, France, Germany, Switzerland, Italy, and certain newer European states. Spring term.

438. **World Government and Politics**—5 hours. International relations of independent states; arbitration, alliances, conferences, and congresses; the balance of power, the Hague Court, and the League of Nations. Prerequisite: Government 132. Spring term.

440. **International Law**—5 hours. Development of the law of nations; its nature, source, and present status; doctrine of intervention; laws of war and peace; rights and duties of neutrals. Prerequisite: Government 132. Winter term 1936-37 and alternate years.

442. **School Laws of Iowa**—3 hours. Legal rights, powers, duties, and responsibilities of school corporations, school boards, school officers, superintendents, teachers, parents, and pupils. Spring term 1936 and alternate years.

134. **Parliamentary Law**—1 hour. Each term.

3. Economics and Sociology

A major in economics and sociology must include Economics 152 and 352; Economics 354 or Sociology 358; History 304; Government 132; and 15 hours of additional work in economics and sociology.

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

152. **Principles of Economics I**—5 hours. Each term.

352. **Principles of Economics II**—5 hours. Application to current problems. Prerequisite: Economics 152. Spring term.

353. **Economic History of the United States**—5 hours.

354. **Money and Banking**—5 hours. Fall term.

452. **Insurance**—2 hours. Property and life insurance. Spring term.

454. **Corporation Finance and Investments**—5 hours. Financing of business enterprises; corporate and individual investments; failures and reorganizations. Spring term.

456. **Public Finance**—5 hours. Sources and administration of public funds. Winter term.

458. **Business Cycles**—3 hours. Trade movements. The stabilization of business.

460. **Transportation**—3 hours. Problems of highway, water, rail and air transportation. Regulation of rates and services. Prerequisite: Economics 152. Winter term 1936-37 and alternate years.

462. **Public Utilities**—5 hours. History of public utilities; their relationship to the community; valuation and rates; service requirements; regulation. Winter term 1935-36 and alternate years.

464. **Industrial Combinations**—3 hours. Types of organization; production on a large scale; legislation.

356. **Labor Problems**—3 hours. Labor organizations; wage levels, hours of work, unemployment; women in industry; methods of settling industrial disputes; labor legislation; industrial democracy. Winter term.

466. **Foreign Trade Problems**—3 hours. International trade; foreign exchange; trade policies and tariffs; international debts. Prerequisite: Economics 152. Winter term 1936-37 and alternate years.

Sociology

358. **General Sociology**—5 hours. The principal social forces and institutions involved in the evolution of society. Methods of social control. Each term.

154. **Rural Sociology**—3 hours. Agricultural production, farm incomes, rural credits, tenantry, rural leadership, social centers and recreation, the rural church and the rural school.

468. **The Family**—3 hours. Origin, development, and social value of the family. Problems.

470. **Population**—3 hours. Composition of population; theories of population; improvement of racial quality; growth of population and its bearing upon wages and standards of living; rural population. Fall term.

472. **Crime and Poverty**—5 hours. Causes, relief, and elimination of poverty; nature, causes, and prevention of crime; treatment of the criminal. Fall term.

360. **Social Problems**—2 hours. Winter term.

TEACHING

Credit used in meeting the teaching requirements of any curriculum must be earned in courses offered by 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 kindergarten-primary teaching, and teaching, students take charge of classes in the campus schools or in affiliated schools, outline units of work, 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 scholarship average required before a student is permitted to enroll for teaching is the same as that required for graduation. (See page 34).

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 head of 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.

10. Directed Observation of Kindergarten-Primary Work—2 hours. Credit only on the curriculum for teachers in kindergarten-primary grades and for a student whose major is nursery school-kindergarten education or kindergarten-primary education. Selection and planning of units of work. Observation and discussion of illustrative lessons. Daily. Prerequisite: Psychology 20.

01. Illustrative Teaching—Credit required. A prerequisite of Teaching, except on the curricula for teachers in rural schools and for teachers in kindergarten-primary grades. Observation and discussion of illustrative lessons. Lectures. Selection and planning of units of work. Three periods a week. Prerequisite: Psychology 15.

15. Activities of Young Children—2½ hours. Credit only on the curriculum for teachers in kindergarten-primary grades. Child life in its physical, mental, and social aspects. Observation in the nursery school and kindergarten, lectures, references, and class discussions. Daily.

5. 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.

302, 402. *Nursery School Teaching. Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit. Prerequisite: Teaching 10 and 15, Art 21, and 10 hours of psychology and education.

304, 404. *Kindergarten-Primary Teaching. Five periods of classroom work and two periods of conference a week are required for each

* Not more than 15 hours of credit in Teaching including Rural Observation and Teaching may be used in meeting the requirements for graduation on any curriculum.

5 hours of credit. Prerequisite: Teaching 10 and 10 hours of psychology and education.

306, 406. ***Teaching.** Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit. Prerequisite: Teaching 01 and 10 hours of psychology and education.

470. **Critic Training**—15 hours. Six terms of training. Students are selected for this work by the Head of the Department of Teaching. Prerequisite: two years of college credit.

* Not more than 15 hours of credit in Teaching including Rural Observation and Teaching may be used in meeting the requirements for graduation on any curriculum.

EXTENSION SERVICE FOR 1935-1936

The extension service includes schools service, correspondence work, and extension class 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 correspondence work or by extension class work. The fee for extension credit work is \$4 a term hour payable in advance. In case a student is unable to complete an extension credit course because of illness certified to by a physician or for other excusable cause, four-fifths of the fee may be refunded.

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.

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 Dean of the Faculty 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. After the spring term 1936 a student may not be registered for correspondence work unless he has

earned an average of two times as many grade points as hours of credit at this 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 and prerequisites of these courses see the departmental statements of courses of instruction.

Education

	Hours		Hours
Psychology		455: Tests and Measurements for	
15: Educational Psychology I	5	the Elementary School.....	3
405: Educational Psychology II	5	460: Methods and Measurements in	
20: Child Psychology.....	5	the High School.....	5
412: Mental Hygiene.....	2	466: The Elementary School Cur-	
414: Genetic Psychology.....	5	riculum	3
416: Psychology of Adolescence.....	5	329: The Consolidated School.....	5
420: Social Psychology.....	5	470: Elementary School Supervision	5
Education		475: School Administration	5
35: Elementary School Methods....	5	482: History of Nursery School,	
435: The Teaching of Reading and		Kindergarten, and Primary	
Spelling	5	Education	5
440: The Teaching of Social Stu-		486: History of American Educa-	
dies in the Elementary School	3	tion	5
444: The Education of Excep-		488: History of Education.....	5
tional Children	5		
325: Statistical Methods in Educa-			
tion	2		

English

	Hours		Hours
100: Description and Narration.....	5	435: The English Novel, 1740-1875....	5
300: Advanced Exposition	5	15: American Prose Writers, 1825-	
400: Advanced Story Writing	5	1875	2
325: Shakespeare	5	16: American Poets, 1825-1875.....	3

Home Economics

	Hours		Hours
10: Textiles	3	12: House Furnishing and Decora-	
60: Nutrition of Children.....	3	tion	3
		300: Child Care	3

Languages

French		Hours			Hours
301: Modern French Prose.....		3	407: Victor Hugo.....		2
302: Short French Plays.....		2	408: Edmond Rostand.....		2
303: French Short Stories.....		3	409: Pierre Loti.....		2
304: French Comedies.....		2	German		
305: Rostand's Cyrano de Bergerac		3	301: Recent German Prose.....		5
306: French Life.....		2	302: Goethe's Hermann und Dor-		2
307: French Novel of the Roman-		3	othea.....		5
tic Period.....		3	303: Schiller's Dramas.....		3
309: French Novel and Short Story		3	306: German Composition and Ad-		5
of the Realistic Period.....		3	vanced Grammar.....		5
401: Contemporary French Drama..		3	402: Scientific German.....		3
404: The Plays of Corneille and		3	Spanish		
Molière.....		3	301: Spanish Prose.....		2
405: Racine and La Fontaine.....		3	302: Spanish Short Story.....		2
406: French Literature of the 18th		3	304: Spanish and Spanish-Ameri-		2
Century.....		3	can Life.....		2

Mathematics and Commercial Education

Mathematics		Hours	Commercial Education		Hours
100: Mathematics I, College			51: Shorthand II.....		5
Algebra.....		5	151: Accounting I.....		5
101: Mathematics II.....		5	152: Accounting II.....		5
102: Mathematics III.....		5	153: Accounting III.....		5
300: Calculus I.....		5	352: Commercial Correspondence...		5
301: Calculus II.....		5	460: Methods in Junior Business		3
401: Theoretical Mechanics A.....		3	Training.....		3
305: Modern Geometry A, Projec-		3	453: Retail Merchandising.....		2
tive Geometry.....		2	454: Salesmanship.....		3
306: Modern Geometry B, Ad-		2	353: Advertising.....		3
vanced Euclidian Geometry.....		3	455: Marketing.....		2
407: History of Mathematics.....		5	456: Business Organization.....		5
10: Principles of Elementary		3	354: Commercial Law I.....		3
Mathematics I.....		3	450: Commercial Law II.....		2
408: Principles of Elementary		3	459: History of Commerce.....		2
Mathematics II.....		3	461: Problems in Commercial Edu-		2
490: The Teaching of Secondary		5	cation.....		3
Mathematics.....		5	495: The Teaching of Shorthand		3
			and Typewriting.....		2
			496: The Teaching of Bookkeeping		2

Music

	Hours		Hours
315: History of Music I.....	2	316: History of Music II.....	3

Natural Science

Biological Science		Hours			Hours
12: Health Education.....		3	486: Principles of Breeding.....		3
Agriculture			487: Farm Management.....		3
480: Soil Fertility.....		2	488: Marketing Agricultural Pro-		3
485: Feeds and Feeding.....		3	ducts.....		3

Social Science

History		Hours			Hours
12: European History, 400-1650 ..		5	432: Local Government.....		2
302: European History, 1650-1815 ..		5	434: Municipal Government.....		5
404: European History since 1815...		5	342: Modern European Govern-		5
406: European History since 1914...		5	ments.....		3
102: English History to 1688.....		5	442: School Laws of Iowa.....		5
104: English History since 1688.....		5	Economics and Sociology		
14: American History to 1865.....		5	152: Principles of Economics I....		5
304: American History since 1865...		5	354: Money and Banking.....		3
412: Diplomatic History of the		5	356: Labor Problems.....		5
United States.....		5	358: General Sociology.....		5
Government			472: Crime and Poverty.....		5
132: American Government.....		5	360: Social Problems.....		2

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 and prerequisites of these courses see the departmental statements of courses of instruction.

Art

	Hours		Hours
110: Drawing I.....	2½	125: Applied Arts I.....	2½
115: General Design.....	2½	330: Commercial Art.....	2½
22: Industrial Arts for Intermediate Grades.....	2½	330: Art Appreciation.....	5
		315: Interior Decoration.....	2½

Education

	Hours		Hours
Psychology		446: Teaching Techniques.....	2
15: Educational Psychology I.....	5	455: Tests and Measurements for the Elementary School.....	3
405: Educational Psychology II.....	5	458: Mental Tests.....	2½
20: Child Psychology.....	5	460: Methods and Measurements in the High School.....	5
414: Genetic Psychology.....	5	464: The Kindergarten-Primary Curriculum.....	5
420: Social Psychology.....	5	466: The Elementary School Curriculum.....	3
Education		329: The Consolidated School.....	5
10: Introduction to Education.....	5	45: Elementary School Management.....	5
30: Language and Literature for Kindergarten-Primary Grades.....	5	470: Elementary School Supervision.....	5
25: Reading and Mathematics for Primary Grades.....	5	488: History of Education.....	5
35: Elementary School Methods.....	5		
435: The Teaching of Reading and Spelling.....	5		
440: The Teaching of Social Studies in the Elementary School.....	3		
442: Literature for Kindergarten-Primary Children.....	5		

English

	Hours		Hours
English		445: American Literature, 1640-1875.....	5
1: English I.....	5	15: American Prose Writers, 1825-1875.....	2
100: Description and Narration.....	5	16: American Poets, 1825-1875.....	3
300: Advanced Exposition.....	5	330: American Prose Writers since 1875.....	3
10: Elements of Literature.....	5	331: American Poets since 1875.....	2
420: English Literature, 1784-1832.....	5	Speech	
425: English Literature, 1832-1880.....	5	110: Public Speaking.....	5
325: Shakespeare.....	5		
440: English Poets since 1875.....	2		
441: English Prose Writers since 1875.....	3		

Home Economics

	Hours		Hours
10: Textiles.....	3	12: House Furnishing and Decoration.....	3

Languages

French	Hours		Hours
101: French I	5	103: Elementary Latin III	5
102: French II	5	104: Cicero's Orations I	5
103: French III	5	105: Cicero's Orations II	5
German		106: Ovid	5
101: German I	5	107: Vergil I	5
102: German II	5	108: Vergil II	5
103: German Stories and Plays	5	Spanish	
Latin		101: Spanish I	5
101: Elementary Latin I	5	102: Spanish II	5
102: Elementary Latin II	5	103: Spanish III	5

Mathematics and Commercial Education

Mathematics	Hours		Hours
100: Mathematics I, College Algebra	5	490: The Teaching of Secondary Mathematics	5
102: Mathematics III	5	Commercial Education	
300: Calculus I	5	151: Accounting I	5
401: Theoretical Mechanics A	3	152: Accounting II	5
305: Modern Geometry A, Projective Geometry	3	153: Accounting III	5
306: Modern Geometry B, Advanced Euclidian Geometry	2	451: Secretarial Training I	3
307: Mathematics of Finance	3	452: Secretarial Training II	2
406: Statistical Measurement	5	352: Commercial Correspondence	5
10: Principles of Elementary Mathematics I	5	460: Methods in Junior Business Training	3
408: Principles of Elementary Mathematics II	3	454: Salesmanship	2
		353: Advertising	3
		354: Commercial Law I	5
		450: Commercial Law II	3
		459: History of Commerce	2

Natural Science

Biological Science	Hours	Earth Science	Hours
412: Heredity	3	360: Astronomy	5
		162: Elements of Geography	5

Social Science

History	Hours		Hours
12: European History, 400-1650	5	340: Political Parties	3
302: European History, 1650-1815	5	342: Modern European Governments	5
404: European History since 1815	5	438: World Government and Politics	5
102: English History to 1688	5	442: School Laws of Iowa	3
104: English History since 1688	5	Economics and Sociology	
14: American History to 1865	5	152: Principles of Economics I	5
304: American History since 1865	5	354: Money and Banking	5
308: American Constitutional History	5	454: Corporation Finance and Investments	5
412: Diplomatic History of the United States	5	456: Public Finance	5
106: History of Iowa	2	356: Labor Problems	3
Government		358: General Sociology	5
132: American Government	5	468: The Family	3
432: Local Government	2	360: Social Problems	2
434: Municipal Government	5		
338: State Government and Administration	3		

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.

GRADUATES, 1933-1934

A list of graduates from November, 1933, to August, 1934

FOUR-YEAR CURRICULA DEGREE CURRICULUM ORGANIZED FOR MAJOR SUBJECTS

Major and minor lines of work are indicated.

The Degree of Bachelor of Arts

November, 1933

Bley, Esther Z. (Orchestral and Band Music—Earth Science).....	Cedar Falls
Diamond, Belle (English—French).....	Cedar Falls
Hoffman, Guinnever (Physical Education for Women—History, French)....	Belle Plaine
Lindberg, Hazel M. (English—Speech).....	Cedar Falls
Rousselow, Naomi (Physical Education for Women—Biological Science)....	Vista, Calif.
Sorg, Nathan F. (Economics and Sociology—Earth Science).....	Tripoli
Thode, Roland L. (Economics and Sociology—History).....	Waterloo
Williams, Lucile Wade (Teaching and Critic Training—English, History) ..	Warren, Pa.

March, 1934

Barton, Grace Irene (Commercial Education—English, Spanish).....	Toulon, Ill.
Hamilton, Ruth Ina (Mathematics—Earth Science, History).....	Bedford
Hawks, Blythe L. (French—Spanish).....	Cedar Falls
Kennedy, Rozella Marjorie (English—History).....	Ottumwa
Kivell, Daisy Mae (Music—Education).....	Greene
McCoy, Elsie Kelly (Earth Science—Biological Science).....	Fayette
Remy, Allan M. (Speech—Earth Science).....	Knoxville
Sadoff, Rosie L. (Latin—English, History).....	Clarion
Schmidt, John C. (Economics and Sociology—German, History).....	Cedar Falls
Stauffer, Edna Jeannette (Primary Education—Biological Science, Mathematics).....	Sioux City
Stingley, Faye (Physical Education for Women—Commercial Education)....	Cedar Falls
Wilhite, Ellis (Art—English).....	Keswick
Zike, Neal H. (Music—Education).....	Lewis

June, 1934

Bangert, Florence Price (Primary Education—History).....	Waverly
Beach, Ruth (Primary Education—English, Psychology).....	Dubuque
Behrens, Everett Dale (History—Economics and Sociology).....	Cedar Falls
Belknap, Amos A. (Economics and Sociology—History, Mathematics).....	Tripoli
Benda, Harold (Biological Science—History).....	Earlville
Brandes, Vernon Lamont (Economics and Sociology—Commercial Education, Mathematics, History).....	Waterloo
Brayton, Maurice E. (Biological Science—Earth Science).....	Somers
Broffel, Angeline Roselle (History—Biological Science, French).....	Cedar Falls
Brown, Robert Allen (Economics and Sociology—English).....	Waterloo
Buchanan, Veva Marcella (Music—English, Education).....	Mt. Union
Burch, Robert L. (Mathematics—Physics, History).....	Pollock, S. Dak.
Byers, Burton H. (Speech—Economics and Sociology).....	Cedar Falls
Carpenter, Frances W. (History—English, French).....	Rock Rapids
Clark, Fern Isabel (Speech—English).....	Waterloo
Clauson, Lowell F. (Biological Science—History).....	Kiron
Cochran, Martha M. (Physical Education for Women—Biological Science)....	Lorimor
Coen, Edwin Jr. (Mathematics—French, History, English).....	Creston
Colburn, Juel Howard (Elementary Education—English, Speech, Earth Science).....	Des Moines
Colburn, Marcella (English—Speech).....	Pomeroy
Collins, Nona L. (Physical Education for Women—Biological Science).....	Dumont

Crawford, Lorinne (Physical Education for Women—Speech).....	Cedar Falls
Daugherty, James Lewis (Speech—History, English).....	Bedford
Dunkle, Mary Evelyn (Music—English).....	New Hampton
Eicker, Frank George (Mathematics—Economics and Sociology).....	Waterloo
Fedderson, Betty Marie (History—English, Speech).....	Cedar Heights
Fulton, Arleen (Physical Education for Women—History, Biological Science).....	Spencer
Gilchrist, Helen T. (English—Speech).....	Emmetsburg
Goff, Erwin J. (History—Government, Economics and Sociology).....	Waterloo
Grafton, Mildred Evelyn (French—History, Spanish).....	Gloucester, N. J.
Haas, Alice M. (Earth Science—History, English).....	Elk Point, S. Dak.
Hansen, Eula Margaret (History—Speech, Latin, English).....	Marcus
Harned, Frances Maxine (English—Speech, Chemistry).....	Waterloo
Herrig, Viola Ann (English—French, Earth Science).....	La Motte
Higby, Sara (Government—History, English).....	Cedar Falls
Hill, Isabelle Bea (Music—English).....	Dysart
Hill, Melvin Alfred (Orchestral and Band Music—Mathematics).....	Cedar Falls
Hill, Paul F. (Earth Science—Economics and Sociology).....	Cedar Falls
Hill, Selma B. (Primary Teaching and Critic Training—Biological Science, English).....	Story City
Howell, Mary E. (Biological Science—English).....	Waterloo
Iekel, Anne (Latin—History, English).....	Independence
Kuntz, Grace L. (Mathematics—French, History, English).....	Ridgeway
Landsberg, Mildred Lorraine (Music—English).....	Britt
Lillig, Lolita Amelia (Music—English).....	Dubuque
Lockwood, Gladys E. (Commercial Education—Mathematics, English).....	Independence
Lytle, Carlton Wilson (Government—History).....	Washington
Mace, Marjorie Leona (Physical Education for Women—French).....	Waterloo
Merrill, Bethel L. (History—Mathematics, English).....	Cedar Falls
Middleton, Caryl A. (English—Speech, French).....	Grundy Center
Miller, Virginia (English—Speech, French).....	Clinton
Moeller, Burdette Edward (Speech—Art).....	Cedar Falls
Moeller, Lloyd L. (French—English).....	Waterloo
Moir, Evelyn E. (History—English, Earth Science).....	Cedar Falls
Moore, Lois Beth (History—English, Economics and Sociology).....	Plainfield
Muzzey, Marian Ethel (History—Mathematics, English).....	Waterloo
McBroom, Leone E. (History—French, English).....	Waterloo
McCreedy, Esther J. (Music—English).....	Washington
McDowall, Myra Alberta (Nursery School and Kindergarten Education—History).....	Gladbrook
Natvig, Alvie M. (Commercial Education—History, Economics and Sociology).....	New Hampton
Ogland, Alfred (Mathematics—History).....	Williams
Olson, Nellie Marolyn (English—History, French).....	Cedar Falls
Papke, Ray A. (English—Mathematics, History).....	Sabula
Paul, Betty Gene (Physical Education for Women—Biological Science).....	Waukee
Raab, Luella M. (Art—German).....	Waterloo
Ralston, Pauline Ward (Physical Education for Women—Biological Science).....	Center Point
Reeves, Dorothy Mae (Commercial Education—History, English).....	Cedar Falls
Richardson, Dorothy Gayle (Music—English).....	Renwick
Rickert, Richard D. (Economics and Sociology—History).....	Waterloo
Robinson, Edna E. (Commercial Education—History, English).....	Colo
Rogers, Helen May (Music—English).....	Union
Romanelli, Mary Cecilia (English—Speech, Earth Science).....	Des Moines
Sanger, Marie Luella (History—Mathematics, English).....	Clinton
Sarset, Katherine Louise (Music—English).....	Waterloo
Scurry, Luella Mary (Music—English).....	Eldora
Sill, Lyla Georgia (Physical Education for Women—English, Mathematics).....	Manchester
Snell, Marjorie Higman (English—History, Art).....	Sioux City
Snyder, Edward Le Roy (Biological Science—Government, English).....	Waterloo
Sohner, De Maris Mae (History—English, French).....	Waterloo
Starry, Laurretta (Music—English, History).....	Springville
Sutton, Edna Marguerite (Music—English, Earth Science).....	Inwood
Talcott, Gladys Ellen (English—Speech, History).....	Randalia
White, Herman J. (Chemistry—Physics).....	Marshalltown
Wick, Robert H. (Speech—Economics and Sociology, History).....	Mt. Union
Wood, La Deema A. (Art—English, French).....	Traer
Woolvorton, Mary Alice (History—English, Earth Science).....	Cedar Falls
Wright, Janette (Music—Speech).....	Cedar Falls
Yavorsky, Marion Catherine (Music—English, Education).....	Belle Plaine

August, 1934

Arnold, Audrey M. (Music—Education).....	Garden Grove
Baars, Erna Louise (Music—German, English).....	Lodi, Wis.
Bancroft, Vivian Maxine (History—English, Mathematics).....	Monticello
Bartelt, Helen (Nursery School and Kindergarten Teaching and Critic Training—English).....	Sioux Falls, S. Dak.
Boland, Mary Joan (Music—Education).....	Fairfax

Brannon, Joseph Cecil (History—Agriculture)	Waucoma
Bugbee, Bessie Nancy (Education—English)	Marshalltown
Chesnut, J. A. (Manual Arts—Education, Agriculture)	Floyd
Collins, Joe H. (Education—English)	Mount Union
Coon, Jeanne (Commercial Education—Mathematics)	McGregor
Cousins, Evelyn Jo (English—History, French)	Waterloo
Currie, Martha (Primary Education—English, Psychology)	Council Bluffs
Davis, Birnadine (Music—English)	Delhi
de Haas, Maxine A. (English—French)	Burlington
Dorsey, Fayette C. (Manual Arts—Agriculture)	Gravity
Draheim, Melvene M. (English—Speech)	Clarion
Dunn, Frances Leone (Nursery School and Kindergarten Education—History)	Galesburg, Ill.
Fish, Virginia Louise (Music—Education)	Waterloo
Flesner, J. Burton (Speech—English)	Rockwell City
Gross, Lucy L. (English—Education)	Keswick
Hansen, Dagny (History—English, Economics and Sociology)	Cedar Falls
Houston, Genevieve C. (Latin—Mathematics, English)	Dunlap
Hunt, Merrill Eugene (Economics and Sociology—Agriculture)	Redfield
Hunt, Pauline Isabelle (Music—English)	Williamsburg
Johnson, Nina Locena (Primary Teaching and Critic Training—English, French)	Washington
Kelley, Ella M. (Primary Education—English)	Oskaloosa
Krueger, Lorenz P. (Economics and Sociology—History)	Tripoli
Main, Herald P. (History—Agriculture)	Moravia
Marston, Miriam Ruth (Music—English)	Mason City
Meekma, Marvel (English—Speech, History, Mathematics)	Cedar Falls
McCaffrie, John (Biological Science—Government)	Dubuque
Newman, Millard Jerome (Orchestral and Band Music—Physics, English)	Edgewood
Nichols, Fern Iowa (Education—English, History)	Cedar Falls
Nolting, Else T. (German—English)	Waverly
Norman, Nellie J. (English—Speech)	Lucas
Oberdoerster, Lydia (Primary Education—Psychology)	Bensenville, Ill.
Olson, Ivy Allene (History—Government)	Williams
Peterson, Dorothy (History—Earth Science, Government)	Essex
Peterson, Elsie E. (English—Education)	Harcourt
Phillips, Raymond V. (Speech—Economics and Sociology, English)	Cedar Falls
Philpot, Virginia (Primary Education—Speech)	Cedar Falls
Platz, Lydia Stockdale (Commercial Education—Mathematics)	Cedar Falls
Rector, Mildred Irene (Primary Education—English)	Waterloo
Riggs, Margaret Laura (History—Commercial Education)	Cedar Falls
Riney, Frances (Speech—English, History, French)	Waterloo
Roelofs, Edward (Mathematics—English)	Sioux Center
Schultz, J. Wilma (English—French)	Waterloo
Seltenrich, Phyllis A. (Physical Education for Women—Biological Science)	Cedar Falls
Smith, F. Fern (Primary Education—Speech)	Knoxville
Spears, Evelyn Lois (Primary Education—Speech)	Cedar Falls
Stomberg, Hulda S. (History—English)	Centerville
Stoner, Lois Arlene (Physical Education for Women—English)	Fort Dodge
Strandberg, Zella E. (Commercial Education—Earth Science)	Wenatchee, Wash.
Taylor, Ethel R. (Primary Education—English, Psychology)	Keswick
Tesch, Julius H. (Economics and Sociology—Agriculture)	Mitchell
Truitt, Dorothy L. M. (History—English, Government)	Britt
Walker, Loretto (Primary Education—Psychology)	Keokuk
Walton, Margaret Louise (History—English)	Cedar Falls
Watson, Inez Viola (English—Speech, Mathematics)	Searsboro
Wells, Bridget Adelaide (English—History)	Rangoon, Burma, India
Williams, Louise (History—English, Earth Science)	Casey
Winger, Gertrude B. (Latin—English, History)	Decorah
Wood, Dorothy M. (Biological Science—English, History)	Davenport
Wood, Reuben M. (History—Manual Arts)	Lucas
Yanasak, Leo W. (History—Earth Science, Economics and Sociology)	Manchester

DEGREE CURRICULA ORGANIZED FOR SPECIAL SUBJECTS

Minor lines of work are indicated.

The Degree of Bachelor of Science in Agriculture

August, 1934

Allbee, Kenneth E. (Physical Education for Men, Manual Arts, English).....Muscatine

The Degree of Bachelor of Science in Commercial Education

March, 1934

Templeton, Wm. W. (Economics).....Waterloo
Wengar, Sylvera E. (Economics, German).....Manchester

June, 1934

Bergstrom, Anne Madelyn (English, Earth Science)	Cedar Falls
Brown, Frances L. (Mathematics, Economics and Sociology, English)	Danbury
Ellis, Eldridge A. (Mathematics, Manual Arts)	Waterloo
Guilford, Robert A. (Economics and Sociology, English)	Dubuque
Johnson, Wiert G. (Economics and Sociology, History)	Kanawha
Morgan, Wilma Lee (Mathematics, English)	Cedar Falls
Novak, Ralph Stanley (Economics and Sociology, Earth Science)	Calmar
Rathbone, Rosamond L. (Earth Science, English)	Red Oak
Rummsen, Grace Marie (Mathematics, History)	Livermore
Shaser, Mary (English, Economics and Sociology, Earth Science)	Botna
Warner, Irene (History, Earth Science)	Northwood
Wohlenberg, Inez (Economics and Sociology, English)	Everly
Zickefoose, Charles Dale (Mathematics, Physics)	Thornton

August, 1934

Anderson, Dorothy M. (English, Economics and Sociology)	Atlantic
Cook, Helen Louise (History)	Russell
Ellis, J. Leslie (Earth Science, English, Economics and Sociology)	Warren, Pa.
Hammill, Virginia Frances (English, Economics and Sociology, Earth Science)	Cedar Rapids
Henry, Hazel D. (Speech, Economics and Sociology)	Colfax
Shado, Norma (Government, English)	Davenport
Teisinger, Marie L. (English, Earth Science)	Cedar Falls

The Degree of Bachelor of Science in Home Economics

November, 1933

Schmidt, Marie Esther (German)	Cedar Falls
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June, 1934

Aten, Mary Irene (Chemistry)	Burt
Conger, Agnes E. (Biological Science)	Cedar Falls
Conklin, Helen E. (English)	Hawkeye
Grier, Florence O. (English)	Deep River
Madsen, Lena Joanna (History)	Latimer
Munson, Audrey D. (English)	Cedar Rapids
Olin, Mina S. (Mathematics)	Deep River
Packer, Ruth Andrews (English, History)	Charles City
Vaala, Irene Geraldine (English)	Lawler

August, 1934

Alliman, Eldora Catherine (English)	Wayland
Davis, Marion Margaret (English)	Edgewood
Duvall, Mary Mildred (English)	West Chester
Fagan, Evelyn Louise (English, History)	Cedar Falls
Gowdy, Harriet (English)	Belmond

The Degree of Bachelor of Science in Manual Arts

November, 1933

Sucher, Richard Cobb (Agriculture, History)	Cedar Falls
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March, 1934

Martens, Arthur C. (Agriculture, English)	Waukon
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June, 1934

Durham, Lyle W. (Physics)	Shannon City
McKnight, Harold W. (Agriculture, Physics, English)	Clarence
McKnight, Howard W. (Physics, English, Agriculture)	Clarence
Thompson, Edward J. (Agriculture)	Kanawha
Unrau, J. Mervel (Agriculture)	Reinbeck

August, 1934

Bielefeldt, Arthur J. (Mathematics)	Dunkerton
Burkhisser, Donald Morrison (Agriculture)	Sanborn

Dunmire, Theodore Alfred (History).....	Titonka
Field, Marshall R. (Agriculture).....	Sheffield
Hamman, Richard (English, Mathematics).....	Afton
Hintzman, Mahlon Alvin (Physical Education for Men, Agriculture).....	Nora Springs

The Degree of Bachelor of Science in Music

June, 1934

Jepsen, Marian (Education).....	Cedar Falls
Miller, Marguerite Louise (Education, English).....	Cascade
Samson, Ruth Mary (English).....	Cedar Falls

The Degree of Bachelor of Science in Opportunity Room Education

August, 1934

Gibbs, Edna (Art).....	Greenfield
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The Degree of Bachelor of Science in Physical Education

November, 1933

Harman, Maynard (Manual Arts).....	Sac City
Rigby, Harlan W. (Manual Arts).....	Mechanicsville

March, 1934

Cram, Edwin Clay (Speech).....	Cedar Falls
Lambert, Paul S. (Agriculture, History).....	Buckingham

June, 1934

Bain, Clarence Essly (Manual Arts, Biological Science, History).....	Washington
Den Ouden, Chris L. (Mathematics, History).....	Grundy Center
Erickson, Dwight A. (Mathematics).....	Marathon
Flanagan, Francis C. (Agriculture).....	Williamsburg
Hulin, Willys O. (Manual Arts).....	Gilman
Irvine, David H. (Agriculture, Government).....	Traer
Kelley, Clinton G. (Economics and Sociology, Agriculture).....	Ames
Kraft, Clair O. (Mathematics, Biological Science).....	Oelwein
Manship, Truman Harry (Agriculture).....	Le Grand
Myers, Harry (Manual Arts).....	Lewis
Piper, Ralph E. (History).....	Albion

August, 1934

Gooden, Donald Ray (Manual Arts).....	Bedford
Hodgin, Evert L. (Manual Arts).....	Rudd
Klotz, Donald D. (Mathematics, Biological Science).....	Winthrop
Kruchten, Harry Lawrence (Mathematics, Agriculture).....	Fonda
Meyer, William S. (Agriculture).....	Holland
Northrup, Charles Marshal (Agriculture, Biological Science).....	Fairbank
Rolston, Owen J. (Manual Arts).....	Sheldon
Talarico, Francis Anthony (History, Earth Science).....	Des Moines

DEPARTMENT CERTIFICATE IN CRITIC TRAINING

Granted only to a student eligible for a degree.

November, 1933

Williams, Lucile Wade.....	Warren, Pa.
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June, 1934

Boehlje, Esther.....	Sheffield
Hill, Selma B.....	Story City

August, 1934

Bartelt, Helen.....	Sioux Falls, S. Dak.
Herndon, Clara Alice.....	Waterloo
Johnson, Nina Locena.....	Washington

TWO-YEAR CURRICULA

Curriculum for Teachers in Nursery School and Kindergarten

June, 1934

Brown, Ruth G.....	Cedar Falls
Crawford, Helen L.....	Ida Grove
Fern, Grace Marian.....	Waterloo
Heeschen, Louise M.....	Davenport
Hiatt, Jessie.....	Rockwell City
Larson, Marian E.....	Davenport
Rasche, Evelyn K.....	Davenport
Wiese, Berniece Kathryn.....	Marengo

August, 1934

Holman, Betty Mae.....	Mason City
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Curriculum for Teachers in Primary Grades

November, 1933

Bowie, Lucille M.....	West Branch
White, Ercyle Grace.....	Ogden
Zimmerman, Eleanor.....	Waterloo

March, 1934

Hallagan, Margaret Elizabeth.....	Waverly
Harrigan, Margaret Mary.....	Danbury
Jensen, Edna Louise.....	Humboldt
Miller, Dorothy Mae.....	Havelock
Munson, Leone.....	Humboldt
Tye, Virginia B.....	Orange City
Watkinson, Joy Isabelle.....	Cedar Falls
Widerspach, Agnes.....	Augusta

June, 1934

Blough, Florence V.....	Waterloo
Boies, Burnita Faith.....	Brandon
Butcher, Della Vonne.....	Holstein
Butler, Dorothy S.....	Waterloo
Carver, G. Ferne.....	Collins
Clock, Marjorie E.....	Geneva
Courtney, Marjorie E.....	Dows
Drumb, Lucille A.....	Clayton
Ellison, Inez A.....	Nashua
Else, Lucille.....	Schleswig
Faust, Cora Dorothy.....	Schleswig
Fern, Grace Marian.....	Waterloo
Gardiner, Gertrude H.....	Corning
Graybeal, Margaret Sue.....	Des Moines
Hansen, Estella I.....	Cedar Falls
Harris, Helen Gail.....	Pocahontas
Hubbard, Beth.....	Cedar Rapids
Jensen, Beulah M.....	Newell
Johnson, Ruth Gwendolyn.....	Milford
Johnson, Wilma E.....	Perry
Julien, Mrs. Rose.....	Cedar Falls
Kane, Maxine E.....	Brooklyn
Kline, Helen Mae.....	Hampton
Lenz, Alice Marie.....	Lansing
Miller, Marjorie Belle.....	Waterloo
Moore, Beatrice Logan.....	Missouri Valley
Moore, Evelyn Myrtle.....	McIntosh, S. Dak.
Morton, Jean Lucille.....	Rockwell City
Mulcay, G. Elizabeth.....	Waterloo
McKone, Anna Mary.....	Lawler
McNett, Della Mae.....	Ruthven
Northey, Ethel May.....	Milford
Phares, Georgia France.....	Ida Grove
Schoellerman, Lola J.....	Lake Park
Shedd, Mary Frances.....	Cedar Heights
Siddall, Alta L.....	Laurens
Smith, Weneedyou.....	Cedar Rapids
Staker, M. Enid.....	Woodward
Starling, Irene.....	Bayard

Stoddard, Eleanore A.....	Waterloo
Stoessel, Gretchen E.....	Ottumwa
Swanson, Mildred M.....	Ruthven
Walter, Elma M.....	Marshalltown
Waterman, Marian Alice.....	Dows
Weale, Ruth E.....	Sutherland
Williams, Margaret Ruth.....	Pleasantville
Willson, Dorothy Elizabeth.....	Mediapolis

August, 1934

Benson, Hazel Adale.....	Hawarden
Bertram, Dorothy.....	Cresco
Bishop, Mildred L.....	Curlew
Boyd, Dorothy G.....	Santurce, Porto Rico
Chadbourne, Evelyn.....	Vinton
Diggins, Katherine Maureen.....	Melbourne
Findlay, Eleanor.....	Otho
Garner, Ila Mae.....	Fonda
Griffis, Hazel Lois.....	Chariton
Hasbrooke, Gladys B.....	Le Mars
Hauge, Ethel Thelma.....	Radcliffe
Hawkinson, Ruth V.....	Ottumwa
Hedman, Lenona.....	Albert City
Johnson, Gladys E.....	Elliott
Kimball, Marjorie H.....	Battle Creek
Lowe, Marjorie Florence.....	Callender
Luckey, Mary Frances.....	Vinton
Martin, Mary Burdette.....	Wilton Junction
Mitchell, Helen E.....	Orient
McFarlane, Marjorie Lucille.....	Washington
McGinnis, Viola V.....	Center Point
Okerstrom, Phyllis.....	Cedar Falls
Page, Mary Elizabeth.....	Ida Grove
Page, Ruby Laurene.....	Ida Grove
Pulley, Greta Irene.....	Adaza
Scott, Fleda B.....	Central City
Shaul, Velma Irene.....	Webster
Skarshaug, Elizabeth.....	Ames
Stearns, Irene A.....	Walnut Grove, Minn.
Tanner, Bernice Luella.....	Goodell
Tooker, Mabel E.....	Merrill
Vande Waa, Ruth.....	Orange City
Williamson, Mildred.....	Clarion
Wintermute, Bertha Gertrude.....	Bedford

Curriculum for Teachers in Grades above the Primary

November, 1933

Brokaw, Elinor.....	Pocahontas
Evans, Mary Elizabeth.....	Bloomfield
Graff, Helen A.....	Geneva
Hill, Betty Janet.....	Bettendorf
Hockenberry, Thelma.....	Exira
Matt, Grace Irene.....	McGregor
Riggert, Thelma Lou.....	Allison
Welby, Martha Agnes.....	Woodward

March, 1934

Brown, Bernice Esther.....	Bode
Buckwalter, Florence.....	Laurens
Colbertson, Alvina Evelyn.....	Northwood
Elliott, Mary Eleanor.....	Waterloo
Leonard, Marcella Irene.....	Little Sioux
McCann, E. Jannette.....	Cedar Falls
Mohlenhoff, Lile.....	Maquoketa
Olsen, Mary E.....	Ellsworth
Shepler, Lillian T.....	State Center
Telecky, Florence Ruth.....	Ely

June, 1934

Adamson, Martha Jane.....	Ankeny
Antes, Anna Elizabeth.....	Keota
Breckerbaumer, Lula Marie.....	Lewis
Carney, Virginia.....	Alden
Chesebro, Clarice.....	Shell Rock
Coates, Alice Bernita.....	Nashua

Conklin, Margaret Josephine.....	Nashua
Connor, Mercedes A.....	Wiota
Crisler, Dorothy Maree.....	Macedonia
Culver, Carol Lenore.....	Cedar Falls
Dahlberg, Jennie E.....	Kent
Elder, Jean K.....	Belmond
Ellis, Dorothy Hamilton.....	Sergeant Bluff
Finkenbinder, Eleanor.....	Kent, Ill.
Finkenbinder, Ruth E.....	Kent, Ill.
Foss, Henrietta Valborg.....	Thor
Fritz, Audrey Georgene.....	Monona
Graves, Gwendolyn L.....	Clarion
Greenlander, Amelia L.....	Belmond
Gump, Marjorie Eileen.....	Cedar Falls
Haak, Evelyn Rose.....	Lost Nation
Habeger, Margaret Marie.....	Algona
Hunt, Dorothy E.....	Osceola
Jacobson, Ruth L.....	Floyd
Jespersion, Lola V.....	Royal
Johnson, Mary Josephine.....	Audubon
Kenagy, Mary E.....	Clarinda
Kessler, Ruth E.....	Des Moines
Kingdon, Joy Laveta.....	Mallard
Lawrence, Joanna Barnard.....	Manchester
Lorenson, Marjorie.....	Onawa
Lyon, Mary Elizabeth.....	Goldfield
Madson, Virginia.....	Harlan
Martin, Marguerite I.....	Sloan
Masters, Olive B.....	Dunbar
Moen, Ruby I.....	Inwood
Moser, Vera.....	Strawberry Point
Murphy, Mary Frances.....	Fort Dodge
McClure, Ruth.....	Lohrville
McGee, Audrey E.....	Greene
Pedersen, Raymond.....	Maynard
Peitersen, Ann Loretta.....	Elk Horn
Riley, Mabel Elizabeth.....	Corning
Rolfes, Irma Kathryn.....	Rockford
Schneider, Wilma E.....	Hospers
Seddon, Edna.....	Mystic
Sheppler, Bonnie Kathleen.....	State Center
Smith, Maxine Elizabeth.....	Manchester
Stone, Dolores R.....	Vinton
Van Zante, Nellie E.....	Eddyville
Vinall, Roy A.....	Newton
Volberding, Edward F.....	Dike
Wacha, Vivian M.....	Elma
Wasson, Marjorie La Vonne.....	Ewart
Watje, Belva Bertha.....	Buck Grove
Watkins, B. Berneise.....	Bayard
Wells, Erma Mae.....	Hazleton
Woldan, Lucy M.....	Ridgeway
Young, Faye Maxine.....	Prescott

August, 1934

Agar, Lillian J.....	Colfax
Anderson, Doris Darlene.....	Oakland
Applegate, Jane.....	Guthrie Center
Arbogast, R. Merle.....	Agency
Ashley, Carol L.....	La Porte City
Belschner, Etwina A. M.....	Clermont
Brunner, Dorothy A.....	Plymouth
Bryan, Doretha Minnie.....	Dunlap
Buffington, Marie C.....	Titonka
Clark, Frances.....	Milo
Collan, Arah Werner.....	Farnhamville
Crane, Willa S.....	Chelsea
Crawford, Norine E.....	Tipton
Dahm, Rene E.....	Sioux City
Davis, Dorothy May.....	Lime Springs
Driscoll, Elizabeth Cecilia.....	Osage
Elderkin, Florence.....	Winterset
Finch, Berdelle M.....	Woolstock
Griffin, Eleanor.....	Adair
Gring, Margaret.....	Storm Lake
Gronstal, Wilhelmine M.....	Estherville
Hauck, Evelyn E.....	Livermore
Herrick, Earl C.....	Massena
Hronik, Louise Estair.....	Cedar Rapids

Irons, Dorothy E.	Laurel
Ladd, Anna B.	New Sharon
Laipple, Marie Louise	Cedar Falls
Lansing, Beryl Melba	Bode
Lantz, Gertie May	Centerville
Lawler, Mable A.	New Providence
Lewis, Olive M.	Massena
Lindhart, Frances L.	Rutland
Love, Miriam	Garner
Mahaffey, Arthur Lohman	Riceville
Miller, Henry C.	Cromwell
Moody, Hazel L.	Ogden
North, Dorothy E.	Vail
Peters, Orva Olive	Sibley
Peterson, Harriet E.	Essex
Peterson, Hyacinth M.	Gowrie
Phipps, Verna L.	Boone
Placatka, Anna Amelia	Davenport
Putnam, Virginia Estelle	Deep River
Salisbury, Blendena	Atlantic
Schult, Margaret L.	Sumner
Shipton, Doris Maxine	Green Mountain
Smith, Della M.	Independence
Smith, Eveah E.	Strawberry Point
Smith, Velma A.	Osceola
Sorensen, Kathryn M.	Humboldt
Stevenson, Margaret E.	Grundy Center
Stratton, Esther Louise	Central City
Sutton, Janet	Bonesteel, S. Dak.
Tipton, Merna Jeanne	Baxter
Walker, Verna Wood	Cedar Falls

Curriculum for Teachers in Consolidated Schools

March, 1934

Hess, Mettie Christine	Emmetsburg
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June, 1934

Caslavka, Adaline M.	Clutier
Gothard, Beatrice L.	Mt. Carroll, Ill.
Julius, Phyllis Evelyn	Moorland
Moeller, Vivian I.	Cedar Falls
Willard, Frances Ann	Gilman

August, 1934

Bowie, Mary	Moulton
Hedemann, Robert F.	Garnaville
Hook, Gertrude	Wellsburg
Johnson, Beulah Marie	Richland
Nelson, Ruth Margaret	Alta
Olson, Grace Dolores	Burnside
Ramsey, Rosamond Ruth	Grand River
Rusch, Lelia Charlene	Kingsley
Thompson, Myrtle Audrey	Paulina

ONE-YEAR CURRICULUM

Curriculum for Teachers in Rural Schools

November, 1933

Geick, Erma J.	Rock Rapids
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March, 1934

Cook, Ruth C.	Delta
Fliss, Verlie Belle	Jesup
Hovden, John Lorence	Decorah
Julius, Phyllis Evelyn	Moorland
Moore, A. Ione	Nora Springs
Schultz, Opal Agnes	Lester
Walker, Mary Elizabeth	Rippey

June, 1934

Belknap, Lola F.	Bristow
Beltz, Vera Maye	Indianola
Bishop, Dorothy Marie	Rowley
Borchardt, Leona E.	Fenton
Brockman, Ethel Mae	Grand Mound
Brown, Walter E.	Cedar Falls

Bunte, Eunice Jean.....	Larchwood
Crew, Vera Irene.....	Ayrshire
Cruikshank, Helen L.....	Humboldt
Frescoln, Irma.....	Batavia
Graber, Armin Ernest.....	Nashua
Hacker, Helen Elizabeth.....	Urbana
Handorf, Arlene Evelyn.....	Gladbrook
Hansen, Mary I.....	Cedar Falls
Heckert, Mildred M.....	Davenport
Hoffman, Helen A.....	Arlington
Holden, Violet L.....	Ottosen
Holroyd, Jean Glasgow.....	Albion
Isakson, Leona.....	Holstein
Johnson, Beulah I.....	Pomeroy
Johnson, Luella.....	Northwood
Johnson, V. Ione.....	Guernsey
Kepler, Eloise M.....	Davenport
Kiesewetter, Elsie.....	Haverhill
Klockslem, Ruth Eleanor.....	Paton
Lamke, Thomas A.....	Waterloo
Lotvedt, Helen A.....	Ossian
Mapel, Ruth.....	Rockwell City
Messerschmitt, Charles Myron.....	Martinsburg
Munnis, Genevieve B.....	Rowan
McGrath, Lucille Mary.....	Independence
Peterson, Lorraine M.....	Titonka
Rusch, Mildred Louise.....	Grand Mound
Saylor, Ruth A.....	Pocahontas
Sellers, Alice Marie.....	Marshalltown
Smith, Beulah M.....	Little Cedar
Steel, Dorothea M.....	Bedford
Strand, T. Myrne.....	Primghar
Struecker, Eldora M.....	Fenton
Stubbs, Murrill Franciene.....	Marshalltown
To Saw, Helen Anne.....	Logan
Vanderheyden, June Rose.....	Buckingham
Welsh, Geraldine.....	De Witt

August, 1934

Bebb, Randall Robert.....	Conesville
Bednar, Ivadell.....	Manly
Bradley, Maxine Louise.....	Springville
Fister, Roma C.....	Le Roy, Minn.
Hackett, Rose Mary.....	Iowa City
Hayes, Eileen Gertrude.....	Hazleton
Johnson, Hada M.....	Dexter
Kessler, Ruth E.....	Des Moines
King, Dorothy Elizabeth.....	Waterloo
Klockslem, Fern Edna.....	Paton
Meyer, Evelyn C.....	New Albin
Ortmeyer, Carl Edward.....	Charles City
Prenosil, Mary Evelyn.....	Walker
Ransom, Ruth Lavonne.....	Ionla
Schuhart, Virginia G.....	Osage
Seifert, John Edward.....	De Witt
Wilcox, Georgia C.....	Perry
Zickefoose, Martha E.....	Thornton

Number Receiving Degrees and Diplomas in 1933

	Men	Women	Total
1. The degree of bachelor of arts.....	48	124	172
2. Degree curricula organized for special subjects			
a. The degree of Bachelor of science in agriculture.....	1		1
b. The degree of bachelor of science in commercial education.....	7	15	22
c. The degree of bachelor of science in home economics.....		15	15
d. The degree of bachelor of science in manual arts.....	13		13
e. The degree of bachelor of science in music.....		3	3
f. The degree of bachelor of science in opportunity room education.....		1	1
g. The degree of bachelor of science in physical education.....	23		23
3. Two-year diplomas			
a. For teachers in the nursery school and kindergarten.....		9	9
b. For teachers in the primary grades.....		92	92
c. For teachers in the grades above the primary.....	7	125	132
d. For teachers in consolidated schools.....	1	14	15
4. One-year diploma			
For teachers in rural schools.....	8	61	69
Total number of graduates.....	108	459	567

SUMMARY OF ATTENDANCE

JUNE 5, 1933 TO MAY 31, 1934

Classes of Students	Men	Women	Total
Students with baccalaureate degrees on degree curricula.....	17	33	50
Undergraduate students on degree curricula			
Seniors	157	240	397
Juniors	123	263	386
Sophomores	137	116	253
Freshmen	228	174	402
Total on degree curricula.....	662	826	1488
Students on two-year curricula			
Second year Students			
Curriculum for teachers in nursery school and kindergarten		14	14
Curriculum for teachers in primary grades.....		126	126
Curriculum for teachers in grades above the primary....	10	192	202
Curriculum for teachers in consolidated schools.....	3	40	43
First-year students			
Curriculum for teachers in nursery school and kindergarten		7	7
Curriculum for teachers in primary grades.....		145	145
Curriculum for teachers in grades above the primary....	13	238	251
Curriculum for teachers in rural and consolidated schools	17	142	159
Total on two-year curricula.....	43	904	947
Students registered for twelve weeks of normal training and not on a curriculum.....	28	174	202
Special music students not on a curriculum.....	12	37	49
Special Students.....		8	8
Special music students past 16 years of age and not high-school graduates	5	6	11
Visitors	3	30	33
Total in residence.....	753	1985	2738
Students in extension work			
Extension class work.....	2	2	4
Correspondence work	30	113	143
Total in extension work exclusive of duplicates.....	32	114	146
Grand total exclusive of duplicates and of pupils in the training school.....	764	2040	2804
Attendance by Terms	Men	Women	Total
Summer term, 1933			
Cedar Falls.....	222	820	1042
Atlantic	7	141	148
Total for summer term.....	229	961	1190
Fall term.....	478	994	1472
Winter term.....	496	981	1477
Spring term.....	466	955	1421
Total for the fall, winter, and spring terms exclusive of duplicates.....	595	1177	1772
Total in residence exclusive of duplicates and of pupils in the training school.....	753	1985	2738

PUPILS IN THE TRAINING SCHOOL AND IN AFFILIATED SCHOOLS

	Boys	Girls	Total
Campus training school.....	176	181	357
Affiliated schools in classes taught by students			
Cherokee			
Primary grades.....	132	139	271
Intermediate grades.....	44	35	79
Hudson			
Primary grades.....	35	26	61
Intermediate and upper grades.....	96	86	182
Mason City			
Primary grades.....	17	23	40
Shenandoah			
Intermediate grades.....	16	18	34
Waterloo, East			
Primary grades.....	14	16	30
Intermediate grades.....	81	110	191
Waterloo, West			
Primary grades.....	18	22	40
Intermediate Grades.....	86	93	179
Junior high school.....	124	103	227
Rural demonstration schools.....	7	11	18
Total in training schools.....	846	863	1709

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