

1-1940

College Catalog 1939-1940

Iowa State Teachers College

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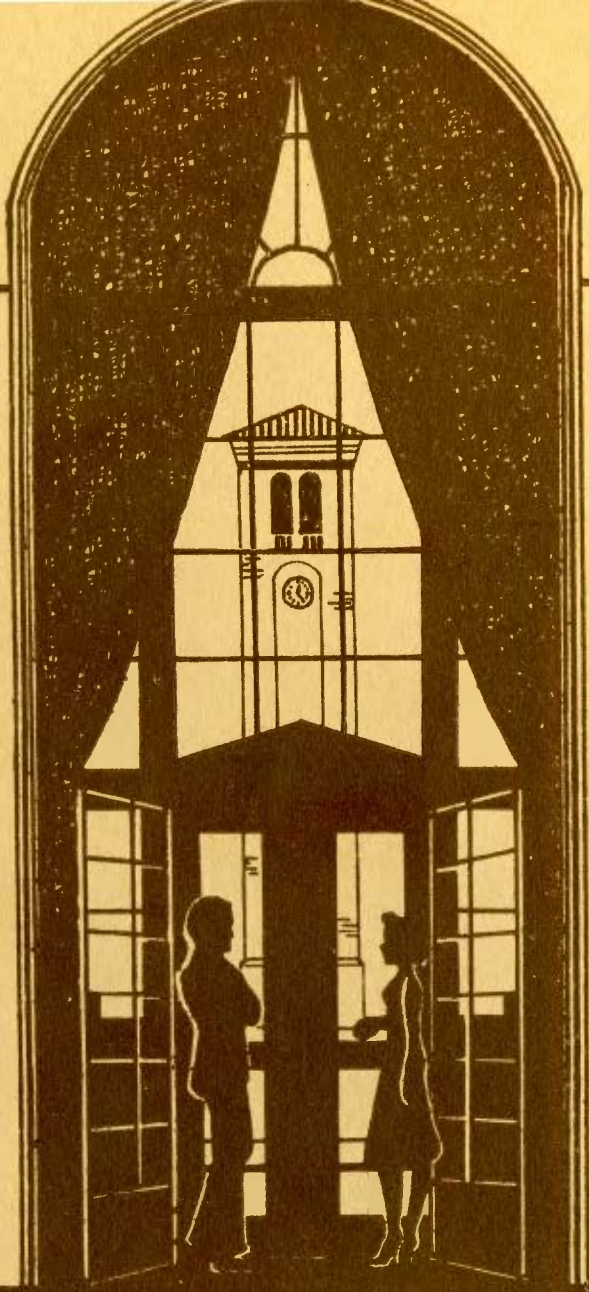
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1939-'40

BULLETIN



I O W A
State Teachers
C O L L E G E

CATALOG NUMBER

JANUARY, 1940

I O W A
State Teachers
C O L L E G E
B U L L E T I N

C A T A L O G
1939 - 1940
INCLUDING ANNOUNCEMENTS FOR 1940-41

Issued Quarterly. Published by the Iowa State Teachers College.
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JANUARY, 1940

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College Calendar For 1940-41

Summer Quarter, 1940—Twelve Weeks

1940

- June 5, Wednesday —Registration 7:00 a. m. to 5:00 p. m.
- June 6, Thursday —Instruction begins, 8:00 a. m.
- July 4, Thursday —Independence Day, a holiday
- Aug. 22, Thursday —Graduating Exercises, 7:30 p. m.
- Aug. 23, Friday —Quarter ends, 12:00 noon

Fall Quarter, 1940—Twelve Weeks

- Sept. 9, Monday —Registration of All Students Enrolling at
- Sept. 10, Tuesday this College for the First Time. (Report Monday at 8:00 a. m.)
- Sept. 11, Wednesday —Registration of All Students Who Have Previously Been in Attendance at this College, 8:00 a. m. to 5:00 p. m.
- Sept. 12, Thursday —Instruction begins, 8:00 a. m.
- Nov. 27, Wednesday —Quarter ends, 12:00 noon

Winter Quarter, 1940-41—Twelve Weeks

- Dec. 2, Monday —Registration, 8:00 a. m. to 5:00 p. m.
- Dec. 3, Tuesday —Instruction begins
- Dec. 20, Friday —Holiday recess, 5:00 p. m.

1941

- Jan. 6, Monday —Instruction resumes, 8:00 a. m.
- Mar. 7, Friday —Quarter ends, 12:00 noon

Spring Quarter, 1941—Twelve Weeks

- Mar. 11, Tuesday —Registration, 8:00 a. m. to 5:00 p. m.
- Mar. 12, Wednesday —Instruction begins, 8:00 a. m.
- May 30, Friday —Memorial Day, a holiday
- June 2, Monday —Sixty-Fourth Annual Commencement
- Quarter ends, 12:00 noon

Summer Quarter, 1941—Twelve Weeks

- June 4, Wednesday —Registration, 7:00 a. m. to 5:00 p. m.
- June 5, Thursday —Instruction begins, 8:00 a. m.
- July 4, Friday —Independence Day, a holiday
- Aug. 21, Thursday —Graduating Exercises, 7:30 p. m.
- Aug. 22, Friday —Quarter ends, 12:00 noon

Iowa State Board of Education

OFFICERS OF THE BOARD

GEORGE T. BAKER, President
M. R. PIERSON, Secretary

MEMBERS OF THE BOARD

GEORGE T. BAKER, Davenport	} Terms expire July 1, 1941
ANNA B. LAWTHOR, Dubuque	
JOHN P. WALLACE, Des Moines	

THOS. W. KEENAN, Shenandoah	} Terms expire July 1, 1943
W. EARL HALL, Mason City	
RICHARD H. PLOCK, Burlington	

HENRY C. SHULL, Sioux City	} Terms expire July 1, 1945
ROY LOUDEN, Fairfield	
MRS. HIRAM C. HOUGHTON, JR.	
Red Oak	

MEMBERS OF THE FINANCE COMMITTEE

Office, Des Moines

WILLIAM R. BOYD, Cedar Rapids, Chairman
M. R. PIERSON, Des Moines, Secretary
WILLIAM G. NOTH, Des Moines

COMMITTEES OF THE BOARD

Faculty Committee

ANNA B. LAWTHOR, Chairman

HENRY C. SHULL
W. EARL HALL
RICHARD H. PLOCK
GEORGE T. BAKER

Building and Business Committee

ROY LOUDEN, Chairman

THOS. W. KEENAN
JOHN P. WALLACE
MRS. HIRAM C. HOUGHTON, JR.
GEORGE T. BAKER

Officers of Administration and Instruction, 1939-40

OFFICERS OF ADMINISTRATION

A single date following the title indicates the beginning of service at this college. If two dates are given, the first indicates the incumbent's first appointment to a position and the second (in parenthesis) the beginning of service in present rank.

ORVAL RAY LATHAM, B.A., M.A., Ph.D., State University of Iowa
President of the College, 1928

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

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

LESLIE I. REED, B.Ph., M.A., State University of Iowa
Dean of Men, 1916 (1924)

BENJAMIN BOARDMAN, B.Ph., State University of Iowa
Business Manager and Secretary and Treasurer, 1917 (1937)

SELMER C. LARSON, B.A., St. Olaf College; M.A., Ph.D., University
of Wisconsin
Registrar, 1937

CHARLES S. CORY, B.S., State University of Iowa
Registrar and Examiner Emeritus, Part-time Service, 1907 (1937)

EVA MAY LUSE, B.A., M.A., Ph.D., State University of Iowa
Director of Student Teaching, 1906 (1919)

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

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

IRVING H. HART, B.A., Grinnell College
Director of the Bureau of Extension Service, 1914 (1916)

GERALD E. KNOFF, B.A., Southern College; B.D., Ph.D., Yale University
Director of the Bureau of Religious Activities, 1938

GEORGE H. HOLMES, B.A., M.A., University of Michigan
Director of the Bureau of Publications, 1929

ALBERT C. FULLER, B.A., State University of Iowa; LL.D., Buena Vista
College
Director of the Bureau of Alumni Service and Public School Relations, 1917 (1934)

MAX L. DURFEE, B.A., M.D., M.S., University of Michigan
Health Director, 1939

FRANK N. MEAD, M.D., University of Pennsylvania
Health Director Emeritus, Part-time Service, 1920 (1939)

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

Officers of Instruction

A single date following the title indicates the beginning of service at this college. If two dates are given, the first indicates the incumbent's first appointment to a position and the second (in parenthesis) the beginning of service in present rank.

ORVAL RAY LATHAM, B.A., M.A., Ph.D., State University of Iowa
President of the College, 1928

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

Professors

LOUIS BEGEMAN, B.S., M.S., University of Michigan; **Ph.D.,** University of Chicago
Professor of Physics, Emeritus, Part-time Service, 1899 (1935)

IRA S. CONDIT, B.A., M.A., Parsons College
Professor of Mathematics, Emeritus, Part-time Service, 1898 (1937)

LILLIAN V. LAMBERT, B.Ph., M.Ph., University of Chicago
Professor of English, Emeritus, Part-time Service, 1907 (1938)

SAMUEL A. LYNCH, B.L., University of Missouri; **M.A.,** University of Chicago
Professor of English, Emeritus, Part-time Service, 1909 (1938)

FRANK IVAN MERCHANT, B.A., Shurtleff College; **M.A., Ph.D.,** University of Berlin
Professor of Latin and Greek, Emeritus, Part-time Service, 1907 (1934)

BERTHA L. PATT, Des Moines Academy of Art; New York Art Students' League
Professor of Art, Emeritus, Part-time Service, 1895 (1938)

G. W. WALTERS, B.S., M.S., Iowa Wesleyan College
Professor of Education, Emeritus, Part-time Service, 1895 (1934)

R. L. ABBOTT, B.A., Iowa State Teachers College; **M.S., Ph.D.,** University of Wisconsin
Professor of Biology, 1916 (1920)

ALISON E. AITCHISON, B.S., State University of Iowa; **M.S.,** University of Chicago
Professor of Geography, 1903 (1914)

CHARLES H. BAILEY, B.S., Columbia University
Professor of Industrial Arts and Head of the Department of Arts, 1905 (1909)

A. E. BROWN, B.S., Baker University; **M.A.,** Yale University; **Ph.D.,** State University of Iowa
Professor of Education, 1924 (1938)

H. S. BUFFUM, B.A., M.A., Ph.D., State University of Iowa
Professor of Education, 1914

- EMMETT J. CABLE, B.S., M.S., Cornell College; Ph.D., State University of Iowa
Professor of Earth Science and Head of the Department of Science, 1905 (1917)
- JOHN W. CHARLES, B.A., M.A., Haverford College; Ph.D., State University of Iowa
Professor of Education, 1916 (1917)
- E. C. DENNY, B.A., Indiana University; M.A., University of Chicago; Ph.D., State University of Iowa
Professor of Education and Head of the Department of Education, 1923 (1934)
- CARL H. ERBE, B.A., Iowa State Teachers College; M.A., Ph.D., State University of Iowa
Professor of Government, 1925 (1933)
- W. B. FAGAN, B.A., Earlham College; M.A., University of Kansas
Professor of English, 1915 (1938)
- ROBERT W. GETCHELL, B.A., Iowa State Teachers College; M.S., Ph.D., University of Wisconsin
Professor of Chemistry, 1909 (1912)
- W. H. KADESCH, B.S., Ohio Wesleyan University; M.Ph., Ph.D., University of Chicago
Professor of Physics, 1921
- EDWARD KURTZ, B.Mus., Detroit Conservatory; M.Mus., Cincinnati Conservatory of Music; M.A., State University of Iowa
Professor of Violin and Composition and Head of the Department of Music, 1924 (1934)
- EMMA F. LAMBERT, B.Ph., State University of Iowa; M.A., Columbia University
Professor of Mathematics, 1901 (1915)
- FLOYD W. LAMBERTSON, B.A., Albion College; M.A., Northwestern University; Ph.D., State University of Iowa
Professor of Speech, 1930 (1934)
- C. W. LANTZ, B.A., M.A., Ph.D., University of Illinois
Professor of Biology, 1921 (1933)
- INGEBRIGT LILLEHEI, B.A., M.A., University of Minnesota; Ph.D., University of Illinois
Professor of French and Spanish and Head of the Department of Languages, 1918 (1934)
- L. L. MENDENHALL, LL.B., M.A., State University of Iowa
Professor of Physical Education for Men and Head of the Department of Physical Education for Men, 1921 (1933)
- H. EARL RATH, B.S., M.S., Ph.D., Iowa State College
Professor of Health Education, 1921 (1938)
- O. B. READ, B.Ph., Hillsdale College; M.A., University of Wisconsin
Professor of Chemistry, 1913 (1918)
- H. A. RIEBE, B.Ph., M.Ph., Ph.D., University of Wisconsin
Professor of Education, 1925 (1938)

- GEORGE C. ROBINSON, B.A., University of Wisconsin; M.A., Ph.D.,
Harvard University
Professor of Government, 1922 (1933)
- WINFIELD SCOTT, B.S., M.S., University of Illinois; Ph.D., Iowa State
College
Professor of Agriculture, 1918 (1919)
- SELINA M. TERRY, B.Ph., M.A., Hamline University
Professor of English, 1922 (1933)
- M. R. THOMPSON, B.A., Western Union College; M.A., Ph.D., State Uni-
versity of Iowa
Professor of Economics and Head of the Department of Social Science
1921 (1923)
- E. E. WATSON, B.S., M.S., State University of Iowa
Professor of Mathematics, 1920
- CHARLES W. WESTER, B.S., University of California; M.A., University
of Washington
Professor of Mathematics, 1916 (1918)
- MONICA R. WILD, B.A., Iowa State Teachers College; M.S., Ph.D., Uni-
versity of Wisconsin
Professor of Physical Education for Women and Head of the Depart-
ment of Physical Education for Women, 1913 (1931)

Associate Professors

- S. FREEMAN HERSEY, B.Ph., Beloit College
Associate Professor of Physics, Emeritus, Part-time Service, 1899
(1935)
- SARA M. RIGGS, B.L., University of Michigan
Associate Professor of History, Emeritus, Part-time Service, 1887
(1934)
- HARRY C. CUMMINS, B.Di., Iowa State Teachers College
Associate Professor of Commercial Education, Emeritus, Part-time
Service, 1898 (1939)
- AMY F. AREY, B.S., M.A., Columbia University
Associate Professor of Education, 1919 (1932)
- MARSHALL R. BEARD, B.A., Marion College; M.A., Ph.D., University of
Wisconsin
Associate Professor of History, 1930 (1939)
- L. V. DOUGLAS, B.S., M.A., Ph.D., State University of Iowa
Associate Professor of Commercial Education and Head of the De-
partment of Commercial Education, 1937
- RALPH R. FAHRNEY, B.A., Mount Morris College; M.A., Ph.D., Uni-
versity of Chicago
Associate Professor of History, 1929 (1934)
- NELIUS O. HALVORSON, B.A., Luther College; M.A., Ph.D., State Uni-
versity of Iowa
Associate Professor of English, 1929 (1932)

- E. H. HENRIKSON, B.A., University of Oregon; M.A., Ph.D., State University of Iowa
Associate Professor of Speech, 1937 (1939)
- MARY B. HUNTER, B.A., Iowa State Teachers College; M.A., University of Chicago
Associate Professor of Economics, 1918 (1932)
- LELAND L. SAGE, B.A., Vanderbilt University; M.A., Ph.D., University of Illinois
Associate Professor of History, 1932 (1937)
- JOSEF SCHAEFER, State Examination, Ph.D., University of Freiburg
Associate Professor of German, 1926 (1933)
- R. O. SKAR, B.A., M.A., St. Olaf College; Ph.D., State University of Iowa
Associate Professor of Commercial Education, 1924 (1932)
- JOHN R. SLACKS, B.Ph., M.A., University of Chicago
Associate Professor of Rural Education, 1918 (1932)
- MAY SMITH, B.A., Coe College; M.A., Columbia University
Associate Professor of Education, 1919 (1932)
- ANNA MARIE SORENSON, B.A., M.A., State University of Iowa
Associate Professor of English, 1921 (1932)
- HAZEL B. STRAYER, B.A., Iowa State Teachers College; M.A., Columbia University
Associate Professor of Speech, 1921 (1932)
- ISABEL THOMES, B.A., University of Kansas; M.A., University of Michigan
Associate Professor of Spanish and French, 1918 (1932)
- CHARLES O. TODD, B.A., Indiana University; M.A., University of Chicago
Associate Professor of Education, 1922 (1932)
- MARGUERITE UTTLEY, B.A., Iowa State Teachers College; M.S., Ph.D., University of Chicago
Associate Professor of Geography, 1921 (1932)
- FRED W. WELLBORN, B.A., Baker University; M.A., University of Kansas; Ph.D., University of Wisconsin
Associate Professor of History, 1926 (1932)
- DORIS E. WHITE, B.A., Simpson College; M.A., Columbia University
Associate Professor of Physical Education for Women, 1915 (1932)
- M. J. WILCOX, B.S., Cornell College; M.A., Ph.D., State University of Iowa
Associate Professor of Education, 1923 (1936)

Assistant Professors

- PAUL F. BENDER, B.A., State University of Iowa; M.A., Columbia University; D.Ed., New York University
Assistant Professor of Physical Education for Men, 1921

- BERT E. BOOTHE, B.A., Central State Teachers College; M.A., Ph.D., University of Michigan
Assistant Professor of English and Head of the Department of English, 1936 (1938)
- KATHERINE BUXBAUM, B.A., State University of Iowa; M.A., University of Chicago
Assistant Professor of English, 1924 (1927)
- AGNES B. COLE, B.Ph., University of Chicago; M.A., Columbia University
Assistant Professor of Art, 1921 (1932)
- LOUIS CROWDER, B.A., Carnegie Institute of Technology
Assistant Professor of Piano, 1937
- ARTHUR DICKINSON, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of Physical Education for Men, 1924 (1939)
- MARTIN L. GRANT, B.A., Oberlin College; M.A., Ph.D., University of Minnesota
Assistant Professor of Biology, 1936
- HERBERT V. HAKE, B.A., Central Wesleyan College; M.A., State University of Iowa
Assistant Professor of Speech, 1938
- WILLIAM E. HAYS, B.Mus., Chicago Musical College; M.Mus., De Paul University
Assistant Professor of Voice, 1921 (1932)
- HARALD B. HOLST, B.Mus., M.Mus., American Conservatory of Music
Assistant Professor of Voice, 1936
- DOROTHY HUMISTON, B.A., University of Minnesota; M.A., Columbia University; Ph.D., New York University
Assistant Professor of Physical Education for Women, 1925 (1932)
- GEORGE R. MACH, B.S., M.S., University of Illinois
Assistant Professor of Commercial Education, 1923 (1932)
- EDNA O. MILLER, B.A., Iowa State Teachers College; M.A., Columbia University
Assistant Professor of Latin, 1924 (1927)
- HAROLD G. PALMER, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of Industrial Arts, 1924 (1939)
- H. WILLARD RENINGER, B.A., M.A., Ph.D., University of Michigan
Assistant Professor of English, 1939
- IDA C. ROHLF, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of English, 1923 (1926)
- ROSE LENA RUEGNITZ, B.Mus., Northwestern University; M.Mus., Cosmopolitan Conservatory
Assistant Professor of Piano, 1923 (1932)

MYRON RUSSELL, B.Mus., Kansas State Agricultural College; M.Mus., Eastman School of Music, University of Rochester
Assistant Professor of Wood-wind Instruments, 1929 (1939)

ROLAND SEARIGHT, B.A., Grinnell College; M.A., Eastman School of Music, University of Rochester
Assistant Professor of Violoncello and Conducting, 1927

HENRY VAN ENGEL, B.A., Nebraska Wesleyan University; M.A., Ph.D., University of Michigan
Assistant Professor of Mathematics and Head of the Department of Mathematics, 1937

GRACE VAN NESS, B.A., Cornell College; M.A., Columbia University
Assistant Professor of Physical Education for Women, 1919 (1921)

Instructors

OLIVE L. BARKER, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Voice, 1926

RUSSELL N. BAUM, B.Mus., M.Mus., Eastman School of Music, University of Rochester
Instructor in Piano, 1938

EMIL W. BOCK, B.Mus., M.Mus., Northwestern University
Instructor in Violin, 1939

CORLEY AGNES CONLON, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Art, 1923

VERNER D. DELANEY, B.A., M.A., University of Washington
Instructor in Music Education, 1937

JOHN F. DIETRICH, B.Ph., M.A., University of Chicago
Instructor in Art, 1939

MYRTLE E. GAFFIN, B.A., Iowa State Teachers College; M.A., State University of Iowa
Instructor in Commercial Education, 1923

FRANK W. HILL, B.Mus., M.Mus., Eastman School of Music, University of Rochester
Instructor in Violin, Viola, and Theory, 1929

JOHN W. HORNS, B.S., University of Minnesota; M.A., Columbia University
Instructor in Art, 1936

DEAN W. KUYKENDALL, B.A., University of Nebraska; M.A., University of Texas
Instructor in Commercial Education, 1939

DOROTHY MICHEL, B.S., University of Minnesota; M.A., Columbia University
Instructor in Physical Education for Women, 1927

- MAUDE E. MOORE, B.A.**, Iowa State Teachers College; **M.A.**, Columbia University
Instructor in Physical Education for Women, 1927
- JULIA M. MYERS, B.A.**, Iowa State Teachers College; **M.A.**, Columbia University
Instructor in Commercial Education, 1924
- AGNES McCLELLAND, B.A.**, Hastings College, **M.A.**, Columbia University
Instructor in Home Economics, 1937
- DAVID H. McCUSKEY, B.S.**, Iowa State Teachers College; **M.A.**, Columbia University
Instructor in Physical Education for Men, 1930
- OLIVER M. NORDLY, B.A.**, Carleton College
Instructor in Physical Education for Men, 1937
- ELIZABETH M. NYHOLM, B.S.**, Iowa State College; **M.S.**, University of Colorado
Instructor in Home Economics, 1939
- RICHARDS C. OSBORN, B.A.**, Stanford University; **M.A.**, University of Southern California; **Ph.D.**, University of Illinois
Instructor in Economics, 1938
- E. ARTHUR ROBINSON, B.A.**, Ohio Wesleyan University; **M.A.**, **Ph.D.**, Ohio State University
Instructor in English, 1936
- GEORGE W. SAMSON, JR.**, Iowa State Teachers College
Instructor in Organ and Piano, 1916
- THELMA SHORT, B.S.**, **M.A.**, Columbia University
Instructor in Physical Education for Women, 1929
- CLYDE L. STARBECK, B.S.**, South Dakota State College
Instructor in Physical Education for Men, 1936
- LAWRENCE W. WHITFORD, B.A.**, Iowa State Teachers College; **M.A.**, University of Michigan
Instructor in Physical Education for Men, 1926
- ANNETTE WILKINS, B.Ed.**, Milwaukee State Teachers College; **M.Mus.**, Northwestern University
Instructor in Voice, 1939
- CARL A. WIRTH, B.Mus.**, **M.Mus.**, Eastman School of Music, University of Rochester
Instructor in Brass Instruments and Theory, 1935

**DEPARTMENT OF DIRECTED OBSERVATION
AND SUPERVISED STUDENT TEACHING**

ORVAL RAY LATHAM, B.A., M.A., Ph.D., State University of Iowa
President of the College, 1928

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

EVA MAY LUSE, B.A., M.A., Ph.D., State University of Iowa
Professor of Teaching and Director of Student Teaching, 1906 (1919)

Associate Professors

JUNETTA HEINONEN, B.A., M.A., University of Michigan; Ph.D., University of Chicago
Associate Professor of Teaching, 1937

CYRIL L. JACKSON, B.A., Grinnell College; M.A., State University of Iowa
Associate Professor of Teaching and Principal of the College High School, 1924 (1934)

MARNA PETERSON, B.Ph., University of Chicago; M.A., Columbia University
Associate Professor of Teaching, 1920 (1932)

E. GRACE RAIT, B.A., Iowa State Teachers College; M.A., Columbia University
Associate Professor of Teaching, 1914 (1932)

Assistant Professors

MARY C. ANDERSON, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of Teaching, 1926

MARY P. CALDWELL, B.A., Iowa State Teachers College; M.A., Columbia University
Assistant Professor of Teaching, 1922 (1932)

MARGARET DIVELBESS, B.A., Grinnell College; M.A., Columbia University
Assistant Professor of Teaching, 1927

MABELLE M. GROSS, B.A., Des Moines University; M.A., State University of Iowa
Assistant Professor of Teaching, 1927

ROSE L. HANSON, B.S., University of Nebraska; M.A., State University of Iowa
Assistant Professor of Teaching, 1920 (1934)

- DORA E. KEARNEY, B.A., M.A., University of Minnesota
Assistant Professor of Teaching, 1925 (1932)
- DOROTHY MAY KOEHRING, B.A., Kansas State University; M.A., Columbia University; Ph.D., Yale University
Assistant Professor of Teaching, 1933 (1938)
- OLIVE PAINE, B.Ph., University of Chicago; M.A., Columbia University; Ph.D., Yale University
Assistant Professor of Teaching, 1933
- ANNABELLE POLLOCK, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of Teaching, 1924 (1932)
- NATHANIEL O. SCHNEIDER, B.S., University of Minnesota; M.A., State University of Iowa
Assistant Professor of Teaching, 1926
- MINNIE E. STARR, B.Mus., M.S., Northwestern University
Assistant Professor of Teaching, 1922 (1927)
- MYRTLE M. STONE, B.A., Washington State College; M.B.A., University of Washington
Assistant Professor of Teaching, 1928
- MARGUIRETTE MAY STRUBLE, B.A., M.A., Ph.D., State University of Iowa
Assistant Professor of Teaching, 1935
- EULALIE TURNER, B.S., State University of Iowa; M.A., Columbia University
Assistant Professor of Teaching, 1915 (1923)
- ALTA L. WILMARTH, B.A., Iowa State Teachers College; M.A., State University of Iowa
Assistant Professor of Teaching, 1919 (1932)

Instructors

- VERNA J. ADNEY, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1927
- LUCILE E. ANDERSON, B.A., Iowa State Teachers College; M.A., University of Chicago
Instructor in Teaching, 1930
- ALICE BAKKEN, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1927
- ESTHER BOEHLJE, B.A., Iowa State Teachers College; M.A., State University of Iowa
Instructor in Teaching, 1937
- M. ELISEBETH BRUGGER, B.A., University of Nebraska; M.A., Columbia University
Instructor in Teaching and Director of the Nursery School, 1931

- ETHEL M. FITZSIMONS, B.A., Hastings College; M.A., University of Nebraska
Instructor in Teaching, 1930
- MERNA I. FLETCHER, B.A., Colorado State Teachers College; M.A., Columbia University
Instructor in Teaching, 1937
- ZELWYN GRAHAM, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1926
- AGNES GULLICKSON, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1926
- SELMA B. HILL, B.A., Iowa State Teachers College; M.A., State University of Iowa
Instructor in Teaching, 1938
- MARIE HJELLE, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1925
- MARGUERITE R. HYDE, B.Ed., University of Washington; M.A., Columbia University
Instructor in Teaching, 1930
- EDNA MANTOR, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1923
- ELEONORE MARTIN, B.A., Iowa State Teachers College; M.A., State University of Iowa
Instructor in Rural Teaching, 1939
- MARGARET L. MESSING, B.S.M., Morningside College; M.Mus., Northwestern University
Instructor in Teaching, 1939
- RUTH J. MICHAELSON, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1927
- EMMA OPFER, B.Ph., University of Chicago; M.A., Columbia University
Instructor in Teaching, 1930
- ERMA BELLE PLAEHN, B.A., Cornell College; M.A., Ph.D., State University of Iowa
Instructor in Teaching, 1936
- M. MILDRED RICE, B.S., Ohio University; M.A., Columbia University
Instructor in Teaching, 1935
- MAE E. RUPPEL, B.A., Carthage College; M.A., Columbia University
Instructor in Teaching, 1934
- SELMA SCHUMANN, B.A., Iowa State Teachers College; M.A., Columbia University
Instructor in Teaching, 1922
- ERNESTINE L. SMITH, B.A., M.S., University of Michigan
Instructor in Teaching, 1936

EXTENSION SERVICE

ORVAL RAY LATHAM, B.A., M.A., Ph.D., State University of Iowa
President of the College, 1928

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

IRVING H. HART, B.A., Grinnell College
Director of Extension Service, 1914 (1916)

Professors

C. A. FULLERTON, B.S., Iowa State Teachers College; M.Mus., Chicago Musical College
Professor of Music, Emeritus, Part-time Service, 1897 (1934)

ELMER L. RITTER, B.A., Indiana University; M.A., Ph.D., State University of Iowa
Professor of Education, 1921

Associate Professors

FRED D. CRAM, B.A., Iowa State Teachers College; M.A., State University of Iowa
Associate Professor of Education, 1920 (1932)

LOU A. SHEPHERD, B.A., Iowa State Teachers College; M.A., Columbia University
Associate Professor of Primary Education, 1924 (1932)

Assistant Professor

F. E. FULLER, B.A., Albion College; M.S., Iowa State College
Assistant Professor of Natural Science, 1917 (1932)

Instructor

*H. C. MOELLER, B.A., Iowa State Teachers College
Instructor in Rural Education, 1926

*On Leave

OTHER OFFICERS AND ASSISTANTS

Library

ANNE STUART DUNCAN, B.L., University of Michigan; Library Certificate, University of Chicago
Head Librarian, 1913

ROWENA A. EDWARDS
Head Cataloguer, 1916

JESSIE L. FERGUSON, B.A., James Millikin University
Reference Librarian, Emeritus, Part-time Service, 1923 (1939)

MARYBELLE McCLELLAND, B.A., Pomona College; B.S., M.S., Columbia University
Reference Librarian, 1929 (1939)

EVELYN J. MULLINS, B.A., Grinnell College; B.S., Columbia University
Circulation Librarian, 1930 (1939)

IRENE A. EHRESMAN, B.A., Carleton College; Library Diploma, University of Wisconsin
Librarian in charge of Periodicals and Extension Service, 1926

CLARA E. CAMPBELL, B.A., Irving College; B.S., Carnegie Institute of Technology; M.S., Columbia University
Juvenile Librarian, 1937

MARY DIETERICH, B.A., Grinnell College; B.S., Columbia University
Assistant Cataloguer, 1930

EDITH NEFF, B.A., Iowa State Teachers College; Library Certificate, University of Wisconsin
Assistant Cataloguer, 1937

MARY M. BARNES, B.A., State University of Iowa; B.L.S., Columbia University
Assistant Circulation Librarian, 1939

The Commons

CATHERINE L. PECK, B.A., University of Michigan; M.A., Columbia University
Social Director of The Commons, 1938

MARY SMILEY, B.S., University of Wisconsin
Director of Foods, 1936

MARJORIE SCHNEIDER, B.S., Rockford College
Assistant Director of Foods, 1939

JANE CURRIE, B.S., Iowa State College
Fountain Room Manager, 1939

Bartlett Hall

MARY E. HAIGHT
Director, 1921

LEONORA E. NASH, B.A., M.A., Mount Holyoke College; M.D., University
of Michigan
Health Director of Bartlett Hall, 1939

MRS. F. C. MOIR
Housekeeper, 1918 (1931)

The George T. Baker Hall for Men

MRS. MADGE BOCK
Director, 1937

MRS. GRACE GRIGGS
Housekeeper, 1936

The Homer H. Seerley Hall for Men

MRS. NINA W. JASMAN
Director, 1938

MRS. WINIFRED PECK
Housekeeper, 1938

Hospital

REHERDA W. GROOM, R. N.
Supervisor, 1938

MRS. CLARA HOUGHKIRK, R. N.
Nurse, 1925

JESSIE JOYCE, R. N.
Nurse, 1934

Secretarial, Clerical, and Stenographic Service

DORIS M. ALBERT
Filing and Mailing Clerk, Office of the Registrar, 1937

MRS. GLADYS Y. AMICK
Record Clerk, Office of the Registrar, 1925

MRS. GLADYS BAUGHMAN
Bookkeeper, Office of the Business Manager, 1927

VELDA B. BENTLEY
Record Clerk, Office of the Registrar, 1924 (1937)

OPAL L. BODELL

Stenographer, Placement Bureau, 1937

MARY ELIZABETH BORROFF, B.M., Oberlin College

Accompanist and Librarian, Department of Music, 1938

EUGENE C. BOVEE, B.A., Iowa State Teachers College

Clerk, Office of the Business Manager, 1939

JEANETTE BROCKMAN

Faculty Stenographer, Office of the Dean of the Faculty, 1938

HELENE J. BROWN, B.S., Iowa State Teachers College

Secretary to the Dean of the Faculty, 1935 (1937)

HARRY BURRELL, B.A., State University of Iowa

Assistant, Bureau of Publications, 1934

ELNA CHRISTENSEN

Secretary to the Librarian, 1936

IDA C. CHRISTENSEN

Cashier, Office of the Business Manager, 1926

RICHIE CHURCH, B.A., Iowa State Teachers College

Secretary to the Director of Student Teaching, 1937

MARGUARITE CRAWFORD

Stenographer, Bureau of Extension Service, 1929

MRS. VIE U. CROUTER, B.A., M.D., Iowa State Teachers College

Secretary to the Dean of Men, 1928

RUTH H. DUNLOP, B.A., Iowa State Teachers College

Record Clerk, Office of the Registrar, 1923

RUTH FROST

Stenographer, Bureau of Extension Service, 1939

LEROY FURRY, B.A., Iowa State Teachers College

Assistant, Bureau of Publications, 1936

FERN GALVIN

Filing Clerk, Office of the Registrar, 1936

MRS. MARGARET GIBSON

Operator, Multigraph Department, 1939

GLADYCE GOODER

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

BETTY B. GREEN

Stenographer, The Commons, 1937

BERNIECE GREVE

Stenographer, Multigraph Department, 1939

MARGARET E. GUMP, B.A., Iowa State Teachers College

Secretary to the Director of the Placement Bureau, 1939

MRS. BLANCHE HARLAND

Secretary to the Director of the Bureau of Research, 1935 (1939)

MILDRED HASSLER, B.S., State University of Iowa

Stenographer, Placement Bureau, 1938

LOTTIE L. HAYES

Stenographer, Office of the Registrar, 1928

ELIZABETH HELLEN, B.S., State University of Iowa

Stenographer, Office of the President, 1935 (1937)

KATHRYN V. HILLER, B.A., Iowa State Teachers College

Clerk, Bureau of Research, 1939

MILDRED HOLLY, B.A., State University of Iowa

Secretary to the Director of the Bureau of Publications, 1938

MRS. ANNA N. HOLMAN

Stenographer, Bureau of Extension Service, 1922

RUTH JOHNS, B.A., Iowa State Teachers College

Secretary to the Dean of Women, 1929

JESSIE JUHL

Secretary to the President, 1923

MRS. LOUISE C. MCKITRICK

Secretary to the Director of Extension Service, 1921

HELEN L. MEYER

Operator, Multigraph Department, 1929

RUTH MEYER, B.A., Iowa State Teachers College

Stenographer, Placement Bureau, 1934

MARILYNN MILLER

Clerk, Office of the Registrar, 1938

WILMA MORGAN, B.S., Iowa State Teachers College

Stenographer, Department of Music, 1937

FLORENCE NEUMEIER, B.A., Iowa State Teachers College

Stenographer and Accompanist, Department of Physical Education for Women, 1939

MRS. HELEN NEWMAN

Clerk, Office of the Business Manager, 1935

JEAN NORRIS, B.A., Iowa State Teachers College

Stenographer, Department of Education, 1938

MARGARET K. PATTON, B.A., Iowa State Teachers College

Stenographer, Office of the Dean of Women, 1937

FLORENCE M. PIERES

Secretary to the Director of the Bureau of Alumni Service and Public School Relations, 1935

MRS. WANDA SEVERIN

Telephone Operator, Office of the Registrar, 1929

MRS. CARRIE SIMONSEN

Supervisor, Office of the Registrar, 1916 (1938)

MAURINE O. STAACK

Stenographer, Department of Buildings and Grounds, 1937

RUTH E. STRAHORN, B.A., Iowa State Teachers College

Record Clerk, Office of the Registrar, 1939

MRS. MABEL VOGT

Clerk, Multigraph Department, 1923

CARRIE A. WATSON, B.A., Iowa State Teachers College

Clerk, Advanced Transfer Credits, Office of the Registrar, 1923 (1938)

FLORENCE WILSON, B.A., Cornell College

Stenographer, Office of the Director of Student Teaching, 1937

INEZ WOHLBERG, B.S., Iowa State Teachers College

Assistant Cashier, Office of the Business Manager, 1937

I. ADMINISTRATIVE COMMITTEES

(Chairman's name first)

- | | |
|--|---|
| <p>1. Curricula</p> <ol style="list-style-type: none"> 1. Dean of the Faculty,
ex officio 2. C. H. Bailey 3. M. R. Thompson 4. Eva May Luse 5. Bert E. Boothe <p>2. Instructional Research</p> <ol style="list-style-type: none"> 1. J. B. Paul 2. W. H. Kadesch 3. Carl H. Erbe 4. L. V. Douglas 5. Henry Van Engen 6. Dean of the Faculty,
ex officio 7. Head of the Department
of Education, ex officio <p>3. Student Welfare</p> <ol style="list-style-type: none"> 1. Dean of Women,
ex officio 2. Dean of Men, Secretary,
ex officio 3. Paul F. Bender 4. May Smith 5. L. V. Douglas <p>4. Student Loan Fund</p> <ol style="list-style-type: none"> 1. Maude E. Moore 2. Martin L. Grant 3. Marna Peterson 4. Dean of Women,
ex officio 5. Dean of Men, ex officio 6. Business Manager,
ex officio <p>5. Athletic Board</p> <ol style="list-style-type: none"> 1. H. Earl Rath 2. W. H. Kadesch 3. E. C. Denny 4. C. H. Erbe 5. L. V. Douglas 6. Business Manager,
ex officio 7. Director of Athletics,
Secretary, ex officio | <p>6. Commencements</p> <ol style="list-style-type: none"> 1. Leland L. Sage 2. Marshall R. Beard 3. Verner D. Delaney 4. Herbert V. Hake 5. Sadie B. Campbell 6. Leslie I. Reed 7. Benjamin Boardman <p>7. Student Efficiency</p> <ol style="list-style-type: none"> 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 <p>8. Board of Health</p> <ol style="list-style-type: none"> 1. Health Director 2. Dean of the Faculty 3. Dean of Women 4. Dean of Men 5. Head of the Department
of Physical Education
for Women 6. Head of the Department
of Physical Education
for Men 7. Health Supervisor of
Bartlett Hall <p>9. Board in Control of Student
Publications</p> <ol style="list-style-type: none"> 1. George H. Holmes 2. Selina M. Terry 3. H. Earl Rath 4. Benjamin Boardman |
|--|---|

10. Recreation Park

1. C. S. Cory
2. C. H. Bailey
3. J. W. Charles
4. L. L. Mendenhall
5. Monica R. Wild

11. Special Memorial Days

1. I. H. Hart
2. George R. Mach
3. Paul F. Bender

II. STUDENT ADVISORY COMMITTEES

(Chairman's name first)

**1. Freshmen who have not
chosen a major**

1. R. R. Fahrney
2. Martin L. Grant
3. Isabel Thomes
4. C. W. Lantz
5. W. H. Kadesch

**3. Kindergarten-Primary
Education**

1. Amy F. Arey
2. May Smith
3. Edna O. Miller
4. J. W. Charles
5. E. A. Robinson

2. Elementary Education

1. H. A. Riebe
2. C. O. Todd
3. M. J. Wilcox
4. A. E. Brown
5. H. S. Buffum

4. Normal Training Students

1. Mary B. Hunter
2. Emma Lambert
3. Ida C. Rohlf

5. Rural Education—John R. Slacks**6. Major Studies**

- (1) Education—E. C. Denny
- (2) Teaching and Critic Training—Eva May Luse
- (3) English and Speech—Bert E. Boothe
- (4) Mathematics—Henry Van Engen
- (5) Commercial Education—L. V. Douglas
- (6) Languages—Latin, German and French—I. L. Lillehei
- (7) Social Science—History and Social Science—M. R. Thompson
- (8) Home Economics—
- (9) Science and Earth Science—E. J. Cable
- (10) Art and Industrial Arts—C. H. Bailey
- (11) Physical Education for Men—L. L. Mendenhall
- (12) Physical Education for Women—Monica R. Wild
- (13) Music—School Music and Applied Music—Edward Kurtz

III. 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

IV. COMMITTEES FOR SPECIAL EVENTS

(Chairman's name first)

1. **Dad's Day (October 14, 1939)**
 1. Leslie I. Reed
 2. Sadie B. Campbell
 3. H. A. Riebe
 4. Monica R. Wild
 5. Harold G. Palmer
2. **Homecoming (October 21, 1939)**
 1. A. C. Fuller
 2. Monica R. Wild
 3. Sadie B. Campbell
 4. Leslie I. Reed
 5. L. L. Mendenhall
3. **Alumni Dinner at Des Moines (November 3, 1939)**
 1. A. C. Fuller
 2. Leslie I. Reed
 3. Alison E. Aitchison
 4. Olive L. Barker
 5. Fred D. Cram
4. **Mother's Day (May 2, 1940)**
 1. Sadie B. Campbell
 2. Leslie I. Reed
 3. Selina M. Terry
 4. Monica R. Wild
 5. John W. Horns

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 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 at the southwestern 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 and shrubs 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 Business Manager, and the Registrar, 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 departments of Commercial Education and Mathematics.

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 Bureau of Extension Service. On the second and third floors are the Faculty Room, the Bureau of Alumni Service and Public School Relations, the Bureau of Publications, the offices of the College Eye and of the Old Gold, Gilchrist Chapel, and practice 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 Bureau of Religious Activities, and the recitation rooms and the offices of the departments of Education, English, Languages, and 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 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 dimensions are 65 feet by 113 feet. It houses offices, recitation rooms, laboratories, and libraries of the staff members of the Department of Science.

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 for the work in art and industrial arts, home economics, and biological 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 intermediate grades, and the six-year 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 120,427 volumes, 583 current periodicals, 10,722 pamphlets, 5,550 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 ten staff members, a secretary, and forty-five student assistants. The library is open on week days except Saturday from 7:30 a. m. to 9:30 p. m., on Saturday from 8:00 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.

The Women's Gymnasium, situated at the northwest corner of the inner quadrangle, was erected in 1903 and remodeled in 1939. Its dimensions are 68 feet by 230 feet. The main building 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, an indoor archery range, a dancing studio, lockers, dressing rooms, and store-rooms. The swimming pool addition, completed in 1938, is connected to the Women's Gymnasium on the west. It is a fireproof structure with exterior of red brick and large stone ornamental panels of Indiana limestone. The addition is 145 feet long, and extends 96 feet west from the gymnasium. The main room of the addition is 116 feet long by 65 feet wide, with an average ceiling height of 28 feet and contains a tile lined swimming pool 60 feet by 90 feet and also bleachers to accommodate 500 spectators. The walls are lined with buff-colored Mankato stone and haydite blocks. Between the two passages which connect the pool room with the Women's Gymnasium is a large shower and dressing room for students. The space under the concrete bleachers is occupied by locker and dressing rooms for both men and women of the faculty. There is also office space for the instructors. The second floor contains an office and lounge on both the north and south ends, from which balconies with ornamental rails overlook the pool.

Connected with the Women's Gymnasium are athletic fields for hockey, soccer, baseball, volleyball, and other field sports, an archery range, 10 Laykold tennis courts, and a driving range and a putting green for practice in golf.

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, eight tennis courts, and a quarter-mile track.

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

The Home of the Dean of the Faculty, 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 520 women students.

West Hall, erected in 1939, is north and west of The Commons in line with Bartlett Hall and of similar construction. Its dimensions are 41 feet by 253 feet with two wings, each 41 feet by 125 feet. In its single and double rooms it accommodates 294 women students.

The George T. Baker Hall for Men, a dormitory housing 111 students, was completed in 1936. It is situated in the outer quadrangle south of the Campanile. Its dimensions are 40 feet by 190 feet with a solarium 12 feet by 48 feet. It is a three-story building

with a basement and contains 46 double rooms, 19 single rooms, 3 guest rooms, a matron's suite, a housekeeper's suite, an office, a lobby, lounge, recreation room, pressing room, and kitchenette.

The Homer H. Seerley Hall for Men, a dormitory housing 119 students, was completed in 1938. It is situated in the outer quadrangle south and east of the Campanile, directly east of the George T. Baker Hall. In design it is similar to Baker Hall and its dimensions are the same. It is a three-story, fireproof structure with full basement and contains 53 double rooms, 18 single rooms, an office, a lobby, lounge, recreation room, pressing room, director's and housekeeper's rooms, and kitchenette. The building is so constructed that wings can be added at a later date, thus providing for a total of 297 men.

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.

A Storeroom for the Department of Buildings and Grounds, situated at the center of the inner quadrangle, was erected in 1904.

The Heating and Power Plant, completed in 1932, supplies the whole institution with heat, light, and power, and 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 two turbines with a generating capacity of 1500 kilowatts of alternating electric current. It has an electric crane, automatic stokers, and other mechanical appliances for the efficient operation of the plant.

The circular concrete smokestack rises 195 feet above the floor of the boiler room.

The Shops and Garage Building, east of the Heating and Power Plant and adjacent to it, contains the office of the Superintendent of Buildings and Grounds, shops for electricians, plumbers, steam-fitters, carpenters, and painters, supply rooms and locker rooms, and a garage for the college trucks and busses. It was completed in 1932.

The Greenhouse Units, which are laboratories for studies in animal and plant biology, were completed in 1938 and are located directly south of the Vocational Building. There are three curved-eave units on the east, the center of which is 31 feet by 42 feet with a high roof for tropical plants. The end units are each 25 feet by 33 feet and are used for display purposes as well as for the starting of campus flowers. The west wing consists of a tile service house, the dimensions of which are 36 feet by 38 feet. The first floor contains a work room, a supply room, an office, and a laboratory while the basement contains a bulb room, service rooms, and a room for animals. The northwest and southwest units are of the commercial type, and are each 28 feet by 50 feet.

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 has 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 Quarters—The calendar year is divided into four quarters of twelve weeks each. Any three of these quarters constitute an academic year.

College Office Hours—During June, July, and August the college administrative offices are open from 7:30 a. m. to 4:30 p. m. on Mondays, Tuesdays, Wednesdays, Thursdays, and Fridays, and from 7:50 to 11:50 a. m. on Saturdays. During the other months the offices are open from 7:50 a. m. to 4:50 p. m. on Mondays to Fridays and from 7:50 a. m. to 11:50 a. m. on Saturdays. Students and their parents should not come to the campus on Saturday afternoons or on Sundays expecting to make arrangements for college attendance.

Enrollment Days—Dates of enrollment are given on page 5. A fee of \$2 is charged for late enrollment. The opening days of the fall quarter are set aside for the orientation of students enrolling at this college for the first time. All such students, whether freshmen or upper classmen, should be present at 8:00 o'clock on Monday, September 9. Students who have previously been enrolled at this college will enroll and register on Wednesday, September 11. On the first day of the winter quarter, the spring quarter, and the summer quarter all students enroll and register.

Physical Examinations—Each student is required to take a physical examination within thirty days after his first enrollment at a time designated by the Health Director. A physical examination by a college physician is required of each student annually.

Placement Tests—Standard intelligence and achievement tests are required of each student upon entrance. This applies not only to freshmen but to all students who have not taken the tests at this college. These tests are regularly given on the opening days of the fall quarter and on the first Saturday of the winter and spring quarters and early in the second week of the summer quarter. 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.

Prospective students who have not previously attended this college are requested to report to one of the eleven testing centers

in the state on Friday, June 7, 1940, at 8:30 a. m. to take their placement tests and to fill out the required information blanks. The information thus obtained will be placed at the disposal of the advisers who will thus be able to give more helpful counsel to students when they register. Prospective students who find it impossible to be present at one of these centers on the above date will take these tests and complete the information blanks during the opening days of the fall quarter.

Information concerning the location of the testing centers may be obtained from the Director of the Bureau of Research.

FEES

All fees are payable at the office of the Business Manager. 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 quarter, and graduation fees at least three weeks before the date of graduation.

Matriculation fee for first enrollment only.....	\$ 5
Tuition, including the College Fee, for fall, winter, spring or summer quarter—	
Freshmen and sophomores	\$26
Juniors, seniors, and college graduates (including students who have earned 88 or more quarter hours of credit).....	\$32
Weekly fee for persons enrolled as visitors.....	\$ 3
Fee for certificate of completion of one-year rural curriculum	\$ 2
Fee for graduation from two-year curricula.....	\$ 5
Fee for graduation from four-year curricula.....	\$10
Fee for department certificate	\$ 2

If a student withdraws from the college 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. If a student is in attendance six weeks or more there is no refund.

Physical Education Fees—All men pay a fee of 50 cents a quarter, \$1 being deposited and 50 cents refunded at the end of the quarter if towels are returned. Women who take swimming pay a fee of \$1.25 a quarter, \$2.50 being deposited and \$1.25 refunded at the end of the quarter if the locker key, towels, and bathing suits are returned. Other women who take Physical Education 01 pay a fee

of 50 cents a quarter, \$1.00 being deposited and 50 cents refunded if locker key and towels are returned.

Music Fees—Students enrolled in the college and pupils attending the training school pay a fee of \$10 per quarter for one thirty-minute lesson each week. Persons not enrolled in the college or the training school pay a fee of \$15 per quarter 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 quarter's work of twelve lessons. Rent for auditorium or studio organ is \$3 a quarter. 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. A fee to cover transportation in connection with field trips is charged in some of the courses in agriculture.

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 quarter. Each student furnishes his own padlock.

Medical Service and Hospital Fees—Medical advice and treatment are provided students by the Health Director and his assistants without additional cost since a portion of the College Fee is set aside for the purpose of defraying the expenses of this service. The Health Director or his assistant may be consulted in the offices of the Health Director at stated hours. In case of emergencies the services of the Health Director or of an assistant are available at other hours. Every case of illness 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 quarter. After five days the charge is \$2 a day. The fee for a private nurse is paid by the patient. Any regularly authorized physician may be employed at the patient's expense.

The Residence of Women Students

All women students who do not live in their own homes must live in college residence halls or in rooming houses approved by the Dean of Women. During their first three quarters of attendance, if not living with their parents or legal guardians, all women students are required to live in Bartlett Hall, the residence hall for new students, unless given special permission to live in private homes. All such special permissions must be obtained from the Dean of Women before registration day.

Application for Rooms in Residence Halls. The application for a room reservation in one of the residence halls is made to the Dean of Women and must be accompanied by a deposit fee of \$5.00. The deposit fee is retained as a damage fee until the end of the period of residence when any unused portion is returned. **If an applicant for whom a room has been reserved finds it necessary to cancel her reservation, the deposit fee is refunded only if the cancellation notice reaches the Dean of Women's office ten days before the opening day of the quarter.**

Assignments are made in the order of application except that students in residence during the academic year have the privilege of reserving their rooms for their own use during the summer quarter if the request is filed before March 1. All rooms not thus reserved are assigned in order of application. Definite assignments are made and notices are mailed two weeks before the opening of a quarter.

Occupancy. Residence halls will be open for occupancy for the 1940 summer quarter at 9:00 a. m. on Tuesday, June 4, and for the 1940-41 academic year at 9:00 a. m., Saturday, September 7. They may be occupied by students until noon of the day following the official ending of a quarter. Reservations will not be held after registration day unless the rental for the quarter has been paid in full prior thereto.

Rates and Payment. The rental rates are \$30.00 per quarter for each student for a double room with one window, \$33.00 per quarter for each student for a double room with two windows, and \$36.00 per quarter for a single room. **The entire rental fee must be paid within five days after the opening of a quarter. No refunds of room rent are made after the second Friday of a quarter.**

Bartlett Hall. This residence hall is reserved for women students during their first three quarters of attendance. The hall, a fireproof building, houses 520 students and contains attractive living rooms, browsing rooms, spread rooms, recreation rooms, and complete office facilities for the administration of the various per-

sonnel functions. Pressing rooms and service rooms for each 30 students add to the convenience of living in the building. Student rooms have hot and cold water, a clothes closet for each occupant, study table, dresser, and single beds equipped with excellent inner spring mattresses and mattress pads. Each student furnishes her own linen, blankets, and bedspread. A more detailed description of the facilities accompanies the acknowledgement of the receipt of an application for reservation. Living conditions are supervised by a trained staff which includes the director, a resident physician, the director of social life, and the housekeeper.

West Hall. This residence unit, to be occupied for the first time during the 1940 spring quarter, is reserved for upperclassmen who have been enrolled in the college more than three quarters. Its facilities and conveniences include the best features of present-day student residence halls. Living conditions are supervised by a trained staff. Each student furnishes her own sheets, pillow cases, hand and bath towels. A pamphlet describing facilities accompanies the acknowledgement of the receipt of an application for reservation.

Accredited Rooming Houses. A list of accredited rooming houses will be furnished upon request to those students eligible to live outside the college residence halls. In all rooming houses students furnish their bedding and linens. The college is not a party to agreements made between students and landlords, although certain housing standards are enforced by the college.

The Residence of Men Students

All men students who do not reside at the home of a parent or guardian must live in one of the residence halls for men or in rooming houses approved by the Dean of Men. Exceptions to this regulation are made only in special instances.

Application for Rooms in Residence Halls. The application for a room reservation is made to the Dean of Men and must be accompanied by a deposit fee of \$5.00. The deposit fee is retained as a damage fee until the end of the period of residence when any unused portion is returned. If an applicant for whom a room has been reserved finds it necessary to cancel his reservation, the deposit fee is refunded only if the cancellation notice reaches the Dean of Men's office ten days before the opening day of the quarter.

Assignments are made in the order of application except that students in residence during the academic year have the privilege of

reserving their rooms for their own use during the summer quarter if the request is filed before March 1. All rooms not thus reserved are assigned in order of application. Definite assignments are made and notices are mailed two weeks before the opening of a quarter.

Occupancy. Residence halls will be open for occupancy for the 1940 summer quarter at 9:00 a. m. on Tuesday, June 4, and for the 1940-41 academic year at 9:00 a. m., Saturday, September 7. They may be occupied by students until noon of the day following the official ending of a quarter. Reservations will not be held after registration day unless the rental for the quarter has been paid in full prior thereto.

Rates and Payment. The rental rates are \$30.00 per quarter for each student for a double room with one window, \$33.00 per quarter for each student for a double room with two windows, and \$36.00 per quarter for a single room. The entire rental fee must be paid within five days after the opening of a quarter. No refunds of room rent are made after the second Friday of a quarter.

The George T. Baker Hall for Men and The Homer H. Seerley Hall for Men. The George T. Baker Hall for Men and The Homer H. Seerley Hall for Men accommodate two hundred and thirty students. The buildings are fireproof and are equipped with every facility for the comfort and convenience of residents. Lobby, student lounge, solarium, recreation rooms, and showers are provided. Student rooms are furnished with single beds, mattresses and mattress pads, pillows, blankets, bedspreads, straight chairs, easy chairs, built-in study tables with shelves, built-in clothes closets, bedside stands, and waste paper baskets. Every room is equipped with hot and cold running water and adequate lighting facilities. Each student living in the men's dormitories is required to furnish four single sheets, size 63 x 99; three pillow cases, size 42 x 36; six hand towels, and four bath towels. Living conditions are supervised by the director and the housekeeper.

Accredited Rooming Houses. A list of accredited rooming houses for men students will be furnished upon request. In all rooming houses students furnish their bedding and linens. The managers of rooming houses for men require written contracts. The college is not a party to these agreements.

The Commons

The Commons houses the food service units and additional recreational facilities. The food service units are equipped to offer

the maximum in good food at low cost. There are five dining rooms arranged for cafeteria, dining room and party service. A fountain room offers late breakfasts and light lunches as well as regular fountain service. A trained dietitian is in charge.

Included in the recreational facilities are a large recreation hall, student lounges, faculty lounges, and club rooms. All of these rooms are completely equipped to carry on the program of social education which is a distinctive part of campus life at the Iowa State Teachers College.

Resumé of a Student's Expenses Per Year

Expenditures for such items as board, books, and incidentals vary considerably. The following itemized statement indicates typical expenditures during the freshman year.

Matriculation fee (for first enrollment only).....	\$ 5
Tuition—\$26 for each of three quarters.....	78
Room—\$30 for each of three quarters.....	90
Board—\$54 (\$4.50 per week) for each of three quarters....	162
Books, supplies, and laboratory fees—\$15 for each of three quarters.....	45
Incidentals such as laundry, cleaning, entertainment, etc., \$20 for each of three quarters.....	60
	<hr/>
	\$440

This estimate does not include clothing or transportation between the student's home and the campus. Neither does it include fees for private instruction in music which is required of all students whose major or minor is in the field of music. It does include medical service, five days of hospitalization per quarter if necessary, admission without further charge to all athletic events, and reduced subscription rates to student publications.

Employment

Work opportunities on or near the campus are not numerous and, as a result, the college cannot promise or guarantee work to any prospective student. No student should come to the campus expecting to earn more than one-third of his or her expenses. Past experience indicates that the average student should not be employed more than three hours per day and at the same time carry a normal load of fifteen credit hours. Students new to the campus

are advised to postpone employment until the end of the first quarter, if it is at all possible to do so.

The offices of the Dean of Men and the Dean of Women will give all possible help to students who need to secure part-time employment.

Partial Tuition Exemptions

The college has no scholarships to place at the disposal of its students. It does grant partial tuition exemptions each year to approximately seventy-five able young men and women who need aid in financing their college education. These grants have a value of \$20 per quarter, or \$60 per year, and are made only to first-year students. Each grant is continued for four consecutive years of college work, not including the summer session, providing the recipient maintains a satisfactory scholarship record. In order to receive consideration, applicants for these grants-of-aid must take the placement tests in one of the eleven designated testing centers on June 7, 1940, (see page 35) and applications must be filed in the office of the President not later than June 1. The successful applicants are notified about July 15.

Student Loan Fund

The college maintains a loan fund for worthy students who are in need of such assistance. Loans are made only to students who have completed four or more quarters of college work, who have completed at least two full quarters in residence at this college, and who are within approximately one year of graduation. In order to be eligible for a loan, the applicant must have earned at least two times as many grade points as hours of credit. Applications for loans must be on file with the secretary of the loan fund committee at least one month before the loan is to be needed.

Student Organizations

At the Iowa State Teachers College, extra-curricular activities are a part of the campus life. A point system regulating participation was initiated with the opening of the fall quarter of the past year. The objectives of this point system are to give a greater number of students training in the benefits to be derived from participation in extra-curricular life, to foster the development of the various activities on the campus, and to safeguard the academic and health interests of students. The point system applies to all students ex-

cept first quarter freshmen whose activities program is under the supervision of the Orientation Committee of the Student Council. The plan was initiated and is administered by the Organizations Committee of the Student Council with the approval of the Student Welfare Committee and the Faculty Senate. Its development represents one of the phases of the work being carried on by the Student Council, an administrative group representing the student body. A faculty committee known as the Student Welfare Committee acts in an advisory capacity to the Council.

Other parts of the Student Council program of work are carried out through the social life, orientation, lecture and entertainment, college elections and customs and traditions committees. The Men's Union and Women's League, organizations comprising all men and women students on the campus, likewise are interested in promoting the intellectual and social growth of their members through projects particularly fitted to their respective memberships. The work of these three organizations—Student Council, Men's Union, Women's League—is coordinated to give the maximum benefits of growth which might come from participation in the solution of campus problems.

Aside from the campus leadership organizations noted, there are interest groups which include departmental clubs, religious organizations as well as a variety of other interests which bind a group of students together; honor and recognition organizations; social organizations; and the student publishing association.

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. The clubs are the Art League, Industrial Arts Guild, The Alembic (Chemistry), First Year Kindergarten-Primary Club, Second Year Kindergarten-Primary Club, Beta Alpha Epsilon (Elementary B. A. Club), Elementary Education Club, Kappa Pi Beta Alpha (Kindergarten-Primary Education), Hamilton Club (Speech), Playcraft Club, Writers' Club, Ellen Richards Club (Home Economics), Commercial Club, Mathematics Club, Classical Club, Romance Language Club, Deutscher Verein (German Club), Chemistry Seminar, Biology Club, Physical Education Club, Women's Athletic Association, Life Saving Corps, International Relations Club.

Religious Organizations. Religious organizations maintained on the campus are the United Student Movement, which sponsors a religious program open to the entire student body, the Catholic Students' Association, and various denominational groups.

Miscellaneous Interest Groups. Alpha Phi Omega (National Boy Scout Fraternity), Campus 4-H Club, Rho Epsilon Rho (Pep Fraternity), Student Camera Club.

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 Upsilon (Geography), Lambda Delta Lambda (Physical Science), Beta Beta Beta (Biology), Pi Gamma Mu (Social Science), Phi Mu Alpha and Sigma Alpha Iota (music fraternities for men and women respectively), Theta Theta Epsilon (Home Economics), Orchesis (Dance), I Club (for men who have won letters in intercollegiate sports), Blue Key (a national honor fraternity for men), Epsilon Pi Tau (Industrial Arts), Purple Arrow (local scholastic honor society for first and second year women), Golden Ledger (local honor society for first and second year commercial education students), and Social Science Honors Society.

Social Organizations. There are eleven local sororities: Alpha Beta Gamma, Delta Phi Delta, Epsilon Phi Epsilon, Kappa Theta Psi, Pi Phi Omega, Pi Tau Phi, Phi Sigma Phi, Pi Theta Pi, Tau Sigma Delta, Theta Gamma Nu, Nu Omicron Nu Sigma Phi.

There are three local fraternities, Alpha Chi Epsilon, Lambda Gamma Nu, and Xanho; and two fraternities which have other chapters outside the state, Alpha Delta Alpha, and Phi Sigma Epsilon.

Music Organizations. College Chorus, A Cappella Choir, Cecilian Glee Club (women), Minnesinger Glee Club (men), College Symphony Orchestra, College Band, Women's Band, Second Orchestra, Women's Chorus.

Student Publishing Association. The Student Publishing Association is governed by the Board in Control of Student Publications consisting of five students and four members of the faculty. The College Eye, weekly newspaper, and the Old Gold, student annual, are edited by students under the supervision of the Director of the Bureau of Publications and the Board in Control of Student Publications. The Purple Pen, a quarterly magazine sponsored by Sigma Tau Delta, publishes significant literary productions of students.

Placement Bureau

Graduates and former students of the college who have been in residence for three or more quarters are assisted by the Placement Bureau in obtaining teaching positions. Direct services are given upon request to superintendents and other school officials by recommending qualified candidates and furnishing copies of confidential credentials. Recommendations are based upon personality, scholarship, teaching traits, success in student teaching, actual teaching experience, character, and professional growth. The bureau is not in a position to guarantee its registrants teaching positions but it does give them all the support that is justified by the records and recommendations filed with the bureau.

A fee of \$3 is charged for registration with the bureau. Each registration continues in force for one year from the date the fee is paid. Prospective graduates from the college are required to register with the bureau but no fee is charged if registration is completed within the first six weeks of the quarter of graduation or prior to this time. Prospective June and August graduates are urged to register not later than within the first six weeks of the winter quarter preceding their graduation. Former graduates who are now teaching and who desire the services of the bureau are requested to complete their registration with the bureau before February 1.

General Regulations

Entrance Requirements

Graduates of four-year public high schools or three-year senior high schools (10th, 11th, and 12th grades) in the state, and graduates of secondary schools which have been accredited by the Iowa Board on Secondary School Relations are admitted to college courses.

Graduates of secondary schools in other states, if such schools are accredited by the state university of the state, are admitted to the Iowa State Teachers College, if their scholarship record averages as high as the average mark of the high school.

Persons twenty-one years of age or over who have not completed 14 units* of secondary school work may be admitted conditionally as adult students to college courses.

Graduates of unaccredited schools in Iowa or in other states, if not admitted as adult students, are admitted only on examination.

Students residing outside the state who have attended another college are not admitted to the Iowa State Teachers College unless their scholarship record averages C for all work undertaken in college.

Students residing in Iowa who have been in attendance at another college and who are under suspension from that college because of their scholarship are not admitted to the Iowa State Teachers College.

Students who have been suspended from another college for reasons other than scholarship are not admitted to the Iowa State Teachers College except as their cases may be reviewed by the President of the college.

*Secondary school work is measured in units. A unit is defined as the equivalent of one high-school study satisfactorily pursued for one school year of at least thirty-six weeks in length, with five periods a week. The length of the recitation periods shall be not less than forty minutes and the laboratory periods not less than sixty minutes. A unit represents one-fourth of the full regular work of a student.

Admission to Curricula

Applicants from four-year secondary schools—

For unconditional admission—15 units; conditional admission—14 units as follows:

Required

English (composition and rhetoric, literature, grammar)	3 units
Social science (history, civics, economics, sociology)	1½ units

Restricted Electives (from the following) 4½ units

English
Social science
Mathematics (algebra, geometry, trigonometry)
Foreign language
Natural science

Free Electives 6 units

These 6 units may include additional work in the foregoing subjects or whatever work the secondary school certifies as counting toward graduation.

Applicants from senior high schools (10th, 11th, and 12th grades)—

For unconditional admission—11 units; conditional admission—10 units.

Required

English	2 units
Social science	½ unit

Restricted Electives (from the following) 3½ units

English
Social science
Mathematics (algebra, geometry, trigonometry)
Foreign language
Natural science

Free Electives 5 units

These 5 units may include additional work in the foregoing subjects or whatever work the secondary school certifies as counting toward graduation.

A student admitted to a curriculum with an entrance deficiency must earn nine extra hours of college credit for each unit of deficiency.

iciency in order to meet the requirements for graduation. If the deficiency is in English or in social science, the extra credit must be in English or in social science.

For a graduate of an approved four-year high school or an approved senior high school, an entrance deficiency is waived in case the student passes the placement tests in a satisfactory manner and makes a scholarship record which averages C on the first forty-five hours of work that are undertaken at the college.

The entrance requirements are waived for a student who is 21 years of age or past 21 when he enters in case the student passes the placement tests in a satisfactory manner and makes a scholarship record which averages C on the first forty-five hours of work that are undertaken at the college.

GROUPS OF SECONDARY SCHOOL SUBJECTS

College entrance subjects are classified in the following six groups. The subjects included in these groups, the number of units acceptable in each subject, and other restrictions, are given below.

1. English

The 3 required units in English must be selected from composition and rhetoric, literature, and grammar. College entrance credit for English grammar, not exceeding $\frac{1}{2}$ unit, will be accepted only if taken after the completion of ninth grade work. Additional work in English may include composition and rhetoric, literature, and not to exceed $\frac{1}{2}$ unit each in business English, journalism, and public speaking.

2. Social Science (history, civics, economics, sociology)

Ancient history.....	$\frac{1}{2}$ to 1 unit
Medieval and modern history.....	$\frac{1}{2}$ to 1 unit
English history.....	$\frac{1}{2}$ to 1 unit
United States history (only if taken after the completion of ninth grade work).....	$\frac{1}{2}$ to 1 unit
General or world history.....	1 unit
Civil government or community civics.....	$\frac{1}{2}$ to 1 unit
American citizenship	$\frac{1}{2}$ unit
Economics	$\frac{1}{2}$ unit
Sociology	$\frac{1}{2}$ unit

3. Mathematics

Elementary algebra (not less than 1 unit accepted)	1 unit
Third semester algebra.....	$\frac{1}{2}$ unit
Fourth semester algebra (essential equivalent of college algebra).....	$\frac{1}{2}$ unit

Plane geometry (not less than 1 unit accepted)	1 unit
Solid geometry	$\frac{1}{2}$ unit
Plane trigonometry	$\frac{1}{2}$ unit

4. Foreign Language

Not less than 1 unit nor more than 4 units
accepted in any single foreign language.

5. Natural Sciences

Agriculture	$\frac{1}{2}$ to 2 units
Astronomy	$\frac{1}{2}$ unit
Biology (not in addition to zoology)	$\frac{1}{2}$ to 1 unit
Botany	$\frac{1}{2}$ to 1 unit
Chemistry (not less than 1 unit accepted)	1 unit
General science	$\frac{1}{2}$ to 1 unit
Geology	$\frac{1}{2}$ unit
Physics (not less than 1 unit accepted)	1 unit
Physiography	$\frac{1}{2}$ to 1 unit
Physiology	$\frac{1}{2}$ unit
Zoology	$\frac{1}{2}$ to 1 unit

6. Miscellaneous

Six units may be accepted from whatever commercial, industrial, or non-academic subjects are counted toward graduation from the high school, except that work in arithmetic will not give college entrance credit unless it is taken after the completion of ninth grade work.

7. Other Restrictions:

- a. Not less than $\frac{1}{2}$ unit in any single subject (or $\frac{1}{3}$ unit in the case of a secondary school whose year is divided into three terms of twelve weeks in length) will be accepted.
- b. In freehand or mechanical drawing, manual training, typewriting, and the laboratory elements of domestic science or bookkeeping, laboratory periods of not less than 60 minutes are required.
- c. Any subject such as physical training, music, glee club, band, etc., which is permitted in addition to four regular high-school subjects is considered an extra-curricular subject. In special cases credit of not more than $\frac{1}{2}$ unit per year in such extra-curricular subjects may be used toward admission, if counted toward graduation from the high school.
- d. Maximum Credits per Year
Not more than five units of college entrance credit may be allowed for the work of any year. Only four

units will be allowed for ninth grade work in a junior high school.

e. Credits Earned in Summer Schools

Credit earned in high-school summer sessions where the normal student load is two subjects, each with two forty-five minute recitation periods a day, will be accepted as follows:

For an eight-week summer session the total amount of credit to be accepted is 1 unit, or $\frac{1}{2}$ unit in each subject.

For a six-week summer session the total amount of credit to be accepted is $\frac{3}{4}$ of a unit, or $\frac{3}{8}$ unit in each subject.

f. Credits Earned by Tutoring

A student who has not severed his connection with his high school may be permitted to make up work under the supervision of an approved private tutor with the provision that examinations for high-school credit will be given by the high-school authorities. If the credits are earned by tutoring, and not in conformity with the provisions stated, such credits are not to be accepted for college entrance except by examination taken at the institution which he desires to enter.

After a student has severed his connection with the high school he may receive college entrance credit for work which he may accomplish in any other way than as a regular member of the high-school class, only by examination at the institution for higher learning which he desires to enter.

Notice to Prospective Students

Make application for admission as early as possible. An application blank is provided as the last sheet of this bulletin.

Certificates of high-school credit should be sent to the Registrar several weeks before the time for enrollment. A certificate must be furnished from each high school attended.

College credit earned at other approved colleges and at approved junior colleges is accepted and used in meeting the requirements for graduation so far as it can be used on the curriculum selected by the student.

Transcripts of college credit should be sent to the Registrar several weeks before the time for enrollment. An official transcript must be furnished from each college attended before the student is permitted to register.

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 that a regular student is permitted to take is two five-hour courses or equivalent.

A student may take a drill course in penmanship or music or directed observation in addition to the credit work which he is permitted to carry.

Students in general may not register for more than regular work and a drill course or directed observation during the first two quarters in residence.

After the first two quarters 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 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 quarter 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.

Students must be in attendance for the full quarter to receive any credit for the work. The practice of permitting students to earn credit for the first six weeks of one quarter and the second six weeks of another quarter has been discontinued.

Work left incomplete at the end of a quarter will be reported as a Failure unless permission is obtained from the Dean of the Faculty to have it reported as Unfinished. Work reported as Unfinished may not be completed after the expiration of six months from the time at which the report was made. If the work reported as Unfinished is not made up within six months, it is automatically entered as a Failure on the student's record.

Students who are registered for courses which bear numbers of 300 or above 300 must attend these classes regularly during the first five days of instruction and the last five days of instruction each quarter, except that students who are registered for courses in the Department of Teaching must be present for this work regularly throughout the quarter.

Students who are registered for courses in the Department of Teaching and those who are registered for courses which bear numbers below 300 may not make up work for credit which is lost by absence 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.

In courses bearing numbers below 300 lost work amounting to more than one-sixth of the course or to more than one-sixth of a quarter's work in Physical Education 01 may not be made up for credit.

When students are absent without excuse from courses bearing numbers below 300 or courses in the Department of Teaching, or when excused absences in such courses are not made up, additional work is required for graduation. One-tenth of a quarter hour is added to the requirements in the case of each course for every period unexcused or not made up. Two periods of laboratory work are counted as one period of class work. This regulation also applies to work for the first five days of instruction and the last five days of instruction each quarter in courses bearing numbers of 300 or above 300.

Marks and Grade Points

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

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

Students may be suspended temporarily or indefinitely 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.

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 quarter 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 whose major is physical education is required to complete more than six quarters of Physical Education 01.

Not less than two quarters of Physical Education 01 are required for the completion of the one-year curriculum for teachers in rural schools and not less than three quarters for graduation from any other curriculum.

Three quarters of the required work in Physical Education 01 must consist of work requiring three periods a week.

Three quarters or less of band practice two or more days a week may be substituted for an equal number of quarters 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 quarter or a part of a quarter 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 quarter 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.

Scholarship Requirement for Graduation.—To be recommended for graduation a student must earn two times as many grade points as hours attempted in residence and by extension work at this institution. If part of the credits were earned at another college with an average scholarship mark which is below C, the scholastic average here must be sufficiently high to insure an average scholarship mark in all college work attempted of not less than C.

If a student has failed to be recommended for graduation because of his scholastic average, the deficiency may be removed only by work taken in residence.

Note.—A student who expects to be graduated at the end of a quarter should make written application for graduation at the opening of the quarter. This application is filed in the office of the Registrar.

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 of credit (5 hours) in Rural School Management (Education 50) and twelve weeks of credit in each of two other five-hour college subjects designated by the State Board of Educational Examiners.

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 office of the Registrar.

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

A student who has completed two years of college work including at least 3 quarter hours of work in American Government (Government 132) and 15 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, if the whole record is approved by the Board of Educational Examiners.

Five-Year Certificates

Graduates of the Iowa State Teachers College when eighteen years of age may receive 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, an advanced elementary certificate;

For the completion of a four-year curriculum with a major in art, music, or physical education, a five-year special certificate or a standard secondary certificate;

For the completion of a four-year curriculum with a major in other lines than those mentioned above, a standard secondary certificate.

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

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, industrial arts, mathematics, music, physical education, science, and social science; 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 organized to include majors and lead to the degree of Bachelor of Arts. The requirements of majors and minors are indicated in statements preceding the courses of instruction in each major line. The fields from which majors and minors may be chosen are:

Majors

Applied music
Art
Commercial education
Earth science
Elementary education
English
French
German
History
Home economics
Industrial arts
Kindergarten-primary education
Latin
Mathematics
Nursery school-kindergarten
education
Physical education (men)

Minors

Agriculture
Art
Band and orchestra conducting
Biological science
Chemistry
Commercial education
Earth science
Economics and sociology
English
French
German
Government
History
Home economics
Industrial arts
Latin
Mathematics

Physical education (women)	Physical education (men)
School music	Physical education (women)
Science	Physics
Social science	Spanish
Speech	Speech
Teaching and critic training	Vocal music for elementary grades
	Vocal music for high schools

A student must choose a major and the required number of 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.

A student whose major is in the field of education and 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. If the major is in a field other than education, the student must earn credit in Teaching 400 and 408.

A student must make application for teaching at least one quarter in advance of the time when the work in teaching is to be taken.

Not more than 15 hours of teaching may be used in meeting the requirements for a degree.

The requirements for a standard secondary certificate include credit for at least $22\frac{1}{2}$ hours of work in one major line and at least

15 hours in each of two other major lines 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.

Curriculum For Teachers of Secondary School Subjects and of Special Subjects

REQUIREMENTS FOR THE DEGREE

First and Second Years

	Hours
English 1: English I	5
Additional work in English Composition	5
Science 15: Survey of Biological Sciences	5
Science 16: Survey of Physical Sciences	5
Biological Science 13: Health Education B	2
Social Science 10: Contemporary Affairs A	1
Government 132: American Government	5
Education 305: Introduction to Secondary Education	5
Psychology 315: Educational Psychology B	5
Speech 20: Fundamentals of Speech	3
Electives	49

(Twenty hours of electives must be chosen from: foreign language, mathematics, science, English, and social science.)

Physical Education 01 each fall, winter, and spring quarter.

In order to provide for the major and minors, care should be exercised to choose the subjects open to freshmen which are prerequisite to later work in the major and minor fields.

Third and Fourth Years

	Hours
Psychology 416: Psychology of Adolescence	3
Education 425: Statistical Methods in Education	2
Education 460: Methods and Measurements in the High School	5
Special methods in the major line (course 490 or above)	2
Teaching 400: High School Observation and Participation	2
Teaching 408: High School Teaching	6
English language and literature	5

(Unless 5 hours were taken during the first two years)

Social science..... 4

(To include Social Science 400: Contemporary Affairs B—1 hour, and 3 additional hours unless at least 9 hours were taken during the first two years)

Electives to make a total of 180 hours.

The work of a student must include a major and two minors.

The work in Physical Education 01 for women students must include Activities for High School and Adult Recreation except that a student whose major is art or speech or in the Department of Music may take Fundamentals of Rhythmic Education instead of Activities for High School and Adult Recreation.

For further details see Four-Year Curricula, Introductory Statement (page 56), and General Requirements for Graduation (page 52).

Curricula For Teachers of Elementary Grades

A. Students desiring to major in elementary education in preparation for teaching in grades above the primary must meet the following requirements.

First and Second Years

	Hours
English	10
Speech 20: Fundamentals of Speech	3
Science	10
(Nature Study or Survey of Biological Sciences and Survey of Physical Sciences)	
Social science	10
(To include American Government—3 or 5 hours and Contemporary Affairs A—1 hour)	
Education 10: Introduction to Elementary Education	5
Psychology 15: Educational Psychology A	5
Biological Science 12: Health Education A	3
Art 110: Art Essentials	3
Music 10: Elements of Music	2
Music 12: Music for Intermediate Grades	2
Industrial Arts 22: Industrial Arts for Intermediate Grades	2
*Education 36: The Teaching of Reading and Spelling	5
Education 38: The Teaching of Social Studies in the Elementary School	2
Mathematics 10: Principles of Elementary Mathematics I	5

*The student is required to take either Education 36 or Education 436.

Education 45: Elementary School Management.....	3
Electives	20
Physical Education 01 each fall, winter, and spring quarter, including Physical Education for Intermediate Grades.	

Third and Fourth Years

	Hours
Psychology 415: Child Psychology.....	3
Psychology 416: Psychology of Adolescence or Psychology 412: Mental Hygiene.....	3 (or 2)
Education 425: Statistical Methods in Education.....	2
*Education 436: Reading and Language in the Elementary School	5
Education 455: Educational Tests for the Elementary School	3
Education 458: Mental Tests.....	3
Education 470: Elementary School Supervision.....	5
Teaching 01: Directed Observation of Intermediate Grade Work	0
Teaching 406: Intermediate Grade Teaching.....	10
Social Science 400: Contemporary Affairs B.....	1
English 305: Literature for Intermediate Grades.....	3
Geography	5
History 304: American History since 1865.....	5
Electives	42 (or 43)

The electives must be chosen so as to provide for at least 22½ hours in one of the following subject-matter groups and at least 15 hours in each of two others. If music is chosen as one of the subject-matter groups, at least 22½ hours must be taken in this field.

1. Art
2. English
3. Earth science
4. History
5. Mathematics
6. Music
7. Biological and physical science
8. Physical education and health

Note: In meeting the requirements of group 7, students may choose any courses listed in the Department of Science except courses in earth science and in agriculture. In meeting the requirements of group 8, students may choose courses in physical education and from Biological Science 12 or 300.

*The student is required to take either Education 36 or Education 436.

For further details see Four-Year Curricula, Introductory Statement (page 56), and General Requirements for Graduation (page 52).

B. Students desiring to major in kindergarten-primary education must meet the following requirements:

First and Second Years

	Hours
English	10
Speech 20: Fundamentals of Speech.....	3
Science	10
(Nature Study or Survey of Biological Sciences and Survey of Physical Sciences)	
Social science.....	10
(To include American Government—3 or 5 hours and Contemporary Affairs A—1 hour)	
Education 10: Introduction to Elementary Education.....	5
Psychology 15: Educational Psychology A	5
Biological Science 12: Health Education A.....	3
Art 110: Art Essentials.....	3
Music 10: Elements of Music.....	2
Music 11: Music for Kindergarten-Primary Grades.....	2
Industrial Arts 21: Industrial Arts for Kindergarten-Primary Grades.....	2
Art 20: Art for Kindergarten-Primary Grades.....	2
Education 30: Language and Literature for Kindergarten-Primary Grades.....	3
Education 25: Reading and Mathematics for Primary Grades..	5
Home Economics 60: Nutrition of Children.....	3
Electives	22
Physical Education 01 each fall, winter, and spring quarter, including Physical Education for Primary Grades and Fundamentals of Rhythmic Education.	

Third and Fourth Years

	Hours
Psychology 415: Child Psychology.....	3
Psychology 408: Personality Development of Children or Psychology 412: Mental Hygiene.....	3 (or 2)
Education 425: Statistical Methods in Education.....	2
Education 455: Educational Tests for the Elementary School	3
Education 458: Mental Tests.....	3
Education 470: Elementary School Supervision.....	5

Teaching 02: Directed Observation of Kindergarten-

Primary Work	0
Teaching 404: Kindergarten-Primary Teaching	10
Education 310: Methods in the Kindergarten	3
Education 442: Literature for Kindergarten-	
Primary Children	5
Social Science 400: Contemporary Affairs B.	1
Electives	52 (or 53)

The electives must be chosen so as to provide for at least 22½ hours in one of the following subject-matter groups and at least 15 hours in each of two others. If music is chosen as one of the subject-matter groups, at least 22½ hours must be taken in this field.

1. Art
2. English
3. Earth science
4. History
5. Mathematics
6. Music
7. Biological and physical science
8. Physical education and health

Note: In meeting the requirements of group 7, students may choose any courses listed in the Department of Science except courses in earth science and agriculture. In meeting the requirements of group 8, students may choose courses in physical education and from Biological Science 12 or 300.

For further details see Four-Year Curricula, Introductory Statement (page 56), and General Requirements for Graduation (page 52).

C. Students desiring to major in nursery school-kindergarten education must complete the requirements outlined above for a major in kindergarten-primary education except that Nursery School Teaching is substituted for Kindergarten-Primary Teaching. They must have credit in the following:

	Hours
Psychology 408: Personality Development of Children	3
Psychology 412: Mental Hygiene	2
Education 450: Parent Education	5
Education 482: History of Nursery School, Kindergarten, and Primary Education	3

Students wishing to prepare for opportunity room teaching should complete one of the four-year curricula as outlined under A

or B above and should include in the electives 20 hours from the following:

	Hours
Art 125: Art Crafts I	2
Physical Education for Women 303: Club and Camp Leadership	3
Sociology 358: General Sociology	5
Sociology 360: Social Problems	2
Art 375: Marionettes, Masks, and Shadows	3
Psychology 408: Personality Development of Children	3
Psychology 412: Mental Hygiene	2
Education 444: The Education of Exceptional Children	3
Home Economics 460: Weaving and Home Crafts	3
Speech 485: Speech Correction	5

Students wishing to qualify for the elementary principal's certificate after having the required teaching experience should include Education 475: School Administration.

Two-Year Curricula

General Regulations

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

The student must make application for teaching at least one quarter in advance of the time when the work in teaching is to be taken.

For a full statement of the requirements in Physical Education 01, see General Requirements for Graduation (page 52).

CURRICULUM FOR TEACHERS IN KINDERGARTEN-

PRIMARY GRADES

First Year

	Hours
Education 10: Introduction to Elementary Education	5
Education 25: Reading and Mathematics for Primary Grades	5
Education 30: Language and Literature for Kindergarten-Primary Grades	3
Education 131: Manuscript Writing	1
Psychology 15: Educational Psychology A	5
Art 20: Art for Kindergarten-Primary Grades	2

Art 110: Art Essentials.....	3
Industrial Arts 21: Industrial Arts for Kindergarten- Primary Grades.....	2
English 1: English I.....	5
Music 10: Elements of Music.....	2
Music 11: Music for Kindergarten-Primary Grades.....	2
History 13: European Backgrounds of American Civilization....	5
Elective in English	5
Teaching 02: Directed Observation of Kindergarten- Primary Work	0
Physical Education 01 each fall, winter, and spring quarter.	

Second Year

Education 310: Methods in the Kindergarten.....	3
Speech 20: Fundamentals of Speech.....	3
Home Economics 60: Nutrition of Children.....	3
Science 16: Survey of Physical Sciences.....	5
Biological Science 10: Nature Study.....	5
Biological Science 12: Health Education A.....	3
Earth Science 162: Elements of Geography.....	5
Social Science 10: Contemporary Affairs A.....	1
Government 132: American Government.....	3
History 304: American History since 1865.....	5
Teaching 304: Kindergarten-Primary Teaching.....	10
Physical Education 01 each fall, winter, and spring quarter.	

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. Students on this curriculum are not permitted to take History 304 until they have registered for Kindergarten-Primary Teaching.

3. The work in Physical Education 01 must include Physical Education for Primary Grades and Fundamentals of Rhythmic Education.

4. For further details, see General Requirements for Graduation (page 52) and Two-Year Curricula—General Regulations (page 63).

CURRICULUM FOR TEACHERS IN GRADES ABOVE THE PRIMARY

First Year

Education 10: Introduction to Elementary Education.....	5
Education 36: The Teaching of Reading and Spelling.....	5
Education 38: The Teaching of Social Studies in the Elementary School	2
Education 45: Elementary School Management.....	3
Psychology 15: Educational Psychology A.....	5
English 1: English I.....	5
Elective in English	5
Speech 20: Fundamentals of Speech.....	3
Art 110: Art Essentials.....	3
Industrial Arts 22: Industrial Arts for Intermediate Grades....	2
Music 10: Elements of Music.....	2
Music 12: Music for Intermediate Grades.....	2
Biological Science 10: Nature Study.....	5
Social Science 10: Contemporary Affairs A.....	1
Teaching 01: Directed Observation of Intermediate Grade Work	0
Physical Education 01 each fall, winter, and spring quarter.	

Second Year

English 305: Literature for Intermediate Grades.....	3
Mathematics 10: Principles of Elementary Mathematics I.....	5
Science 16: Survey of Physical Sciences.....	5
Biological Science 12: Health Education A.....	3
Earth Science 162: Elements of Geography.....	5
Government 132: American Government.....	3
History 13: European Backgrounds of American Civilization....	5
History 304: American History since 1865.....	5
Teaching 306: Intermediate Grade Teaching.....	10
Commercial Education 01: Penmanship.....	0
(Unless released for proficiency)	
Physical Education 01 each fall, winter, and spring quarter.	

Notes

1. A student who shows suitable proficiency in penmanship may be released from the requirement in penmanship by the Director of the Bureau of Research.

2. Students on this curriculum are not permitted to take History 304 until they have registered for Intermediate Grade Teaching.

3. The work in Physical Education 01 for women students must include Physical Education for Intermediate Grades.

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

5. For further details, see General Requirements for Graduation (page 52) and Two-Year Curricula—General Regulations (page 63).

One Year Curriculum

Curriculum for Teachers in Rural Schools

	Hours
Education 35: Elementary School Methods	5
Education 50: Rural School Management	5
English 1: English I	5
Mathematics 10: Principles of Elementary Mathematics I	5
Music 10: Elements of Music	2
Art 110: Art Essentials	3
Biological Science 10: Nature Study or	
Science 16: Survey of Physical Sciences	5
Earth Science 162: Elements of Geography	5
Government 132: American Government	3
History 13: European Backgrounds of American Civilization	5
Teaching 5: Rural Observation and Participation	2
Commercial Education 01: Penmanship	0

(Unless released for proficiency)

Physical Education 01 each fall, winter, and spring quarter.

Notes

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

2. With the exception of the credit in Teaching 5 and Education 35 and 2 hours of the credit in Education 50, the credit earned on this curriculum may be used in meeting the requirements of the curriculum for teachers in grades above the primary.

3. A student who shows suitable proficiency in penmanship may be released from the requirement in penmanship by the Director of the Bureau of Research.

4. The work in Physical Education 01 for women students must include Physical Education for Intermediate Grades.

5. For further details, see General Requirements for Graduation (page 52).

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.

Arts

Charles H. Bailey, B. S., Professor of Industrial Arts and Head of the Department

Bertha L. Patt, Professor of Art, Emeritus, Part-time Service

Agnes B. Cole, M.A., Assistant Professor of Art

Harold G. Palmer, M.A., Assistant Professor of Industrial Arts

Corley Agnes Conlon, M.A., Instructor in Art

John F. Dietrich, M.A., Instructor in Art

John W. Horns, M.A., Instructor in Art

I. Art

A major in art must include Art 110, 111, 112, 115, 125, 312, 480, 489, and 490; 7 hours from Art 315, 330, 405, 410, and 475; 5 hours from Art 340, 375, and 425; Industrial Arts 22 and 310; and electives in art to make a total of 47 hours.

A minor in art must include Art 110, 111, 115, 125, 490, and electives in art to make a total of at least 20 hours.

16. Art Appreciation—3 hours. Creative expression in various craft media to develop sensitivity to the aesthetic quality of both historical and contemporary art and to articles in one's environment. Daily.

20. Art for Kindergarten-Primary Grades—2 hours. Creative graphic expression on the adult level. Methods of provoking art experiences which will bring about free growth of the creative forces within the child. Prerequisite: Art 110. Four periods a week.

110. Art Essentials—3 hours. Basic course. Drawing and color in composition using graphic materials suitable for art education of the child. Six periods a week.

111. Drawing and Painting I—2 hours. Experiential material expressed through line, form, and pattern as structural elements in composition. Prerequisite: Art 110. Four periods a week.

112. Perspective—2 hours. Type forms, single objects, groups of objects. Linear and aerial perspective. Four periods a week.

115. Design I—3 hours. A theory course giving practice in creative designing and in the appreciation of fine design and color. Six periods a week.

125. Art Crafts I—2 hours. No credit for a student who has credit for Applied Arts I. Design principles applied to bookmaking and pottery. Four periods a week.

312. Drawing and Painting II—3 hours. Art structure elements of volume, solidity, and space. Acquaintance with modern painting as it affects the student's work. Design and composition in practice and appreciation. Prerequisite: Art 110 and 112. Six periods a week.

315. Interior Design—2 hours. Color and arrangement of textiles, furniture and accessories for the home. Drawing and painting of elevations for experience in design and interpretation. Prerequisite: Art 110 and 115. Four periods a week.

330. Lettering and Poster Design—2 hours. Composition. Lettering in advertising, in books, and in other page arrangements. Prerequisite: Art 110. Four periods a week.

340. Art Metal Work—3 hours. Basic principles and operations of metal work applied to such materials as brass, copper, and pewter. Emphasis on design, materials, and finish. Six periods a week.

375. Marionettes, Masks, and Shadows—3 hours. Construction and manipulation of various types of puppets and marionettes. Making and use of masks. Methods of presenting a shadow play. Emphasis on effect of line, color, and design. Six periods a week.

405. Water Color—3 hours. A continuation of drawing, painting, and composition with emphasis on water-color technique. Prerequisite: Art 110, 112, and 312. Six periods a week.

410. Figure Drawing and Painting—3 hours. Special problems in figure drawing and painting. Use of various media, emphasizing oils. Prerequisite: Art 110 and 111. Six periods a week.

415. Design II—3 hours. Experimentation with a wide range of materials and techniques to develop creative ability in two and three dimensional design. Prerequisite: Art 115 or equivalent preparation. Six periods a week.

425. Art Crafts II—2 hours. No credit for a student who has credit in Applied Arts II. Principles of creative design applied to textiles with linoleum block, stencil and silk screen methods and to modeling and lacing of leather. Appreciation of design and color in these media. Prerequisite: Art 115 or equivalent preparation. Four periods a week.

475. Prints and Print Making—2 hours. Appreciation of fine prints; study of tools and manipulations in print making; the making of prints. Intaglio and planographic prints with attention to their uses in advertising and in school publications. Prerequisite: Art 110 and 111. Four periods a week.

477. Advanced Technical Problems—2 to 5 hours. Credit only for a student whose major or minor is art. Advanced individual problems or projects in design, painting, or applied art. Prerequisite: approval of the Head of the Department of Arts and of the instructor.

480. History of Art—5 hours. A study of the cultural development of peoples as expressed through their architecture, sculpture, painting and other arts.

489. The Organization of Public School Art—3 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, 115, 125, and 111 or 312.

490. The Teaching of Art—2 hours. Credit also as a course in education for a student whose major is art. Prerequisite: Art 110, 115, 125, and 111 or 312, and Education 460.

2. Industrial Arts

A major in industrial arts must include Industrial Arts 40, 110, 115, 310, 311, 312, 320, 321, 322, 415, 425, 480, 485, and 490.

The work of a student whose major is industrial arts must include Art 112 and Physics 140 and 343.

A minor in industrial arts must include Industrial Arts 40, 310, 311, 320, 321, 490, and electives in industrial arts to make a total of at least 20 hours.

21. ***Industrial Arts for Kindergarten-Primary Grades—2 hours.** 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. Art 110 must precede or accompany this course. Four periods a week.

22. ***Industrial Arts for Intermediate Grades—2 hours.** Industrial arts involved in the construction of shelter, and in the production of utensils, machines, clothing or textiles, and records. Weaving, pottery making, and bookmaking. Fundamentals of design and color as applied to construction and decoration. Art 110 must precede or accompany this course. Four periods a week.

40. **Metal Work I—3 hours.** Theory and practice of tin plate work. Hand and machine operations. Study of materials. Simple pattern drafting. Working cold iron; bending, shaping, fastening, and finishing. Six periods a week.

110. **Industrial Arts Design—3 hours.** General principles of constructive and decorative design as applied to wood and metal. Period styles in furniture. Recitation, 1 period a week; laboratory work, 4 periods a week.

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

310. **Mechanical Drawing I—2 hours.** No credit for a student who has entrance credit for two units of mechanical drawing. 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.

*Industrial Arts 21 or 22 may be counted toward a minor in art.

320. Woodwork I—3 hours. No credit for a student who has entrance credit for two units of woodworking. Industrial Arts 310 must precede or accompany this course except for students who have had entrance credit for one unit of mechanical drawing. 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 practice in the use of tools. Materials of construction. Elementary cabinet work. These courses must be taken in consecutive order.

324. Wood Turning—2 hours. The wood-turning lathe. Various methods of turning. Prerequisite: Industrial Arts 320. Laboratory work, 4 periods a week.

341. Metal Work II—3 hours. Advanced tin plate and cold iron work; bench metal work; metal turning; metal spinning; simple forging; tool tempering; and soft metal casting. Six periods a week.

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

411. The Teaching of Highway Safety—1 hour. Physical and mental equipment needed for proper driving. Driver and pedestrian responsibilities. Sound driving practices. Methods and organization of course for high schools. Prerequisite: an Iowa Driver's License. Two periods a week.

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

425. Woodwork IV—5 hours. Advanced problems in design and construction. Prerequisite: Industrial Arts 320, 321, and 322. 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. Prerequisite: Industrial Arts 350. Laboratory work, 10 periods a week.

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

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. Prerequisite: Industrial Arts 310 and 320.

485. Organization and Administration of Industrial Arts—3 hours. Objectives of industrial 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: Industrial Arts 310, 311, 320, and 321.

490. The Teaching of Industrial Arts—2 hours. Credit also as a course in education for a student whose major is industrial arts. Prerequisite: Industrial Arts 310, 311, 320, and 321; Psychology 315; and Education 460.

Commercial Education

L. V. Douglas, Ph.D., Associate Professor of Commercial Education and Head of the Department

Harry C. Cummins, B.Di., Associate Professor of Commercial Education, Emeritus, Part-time Service

R. O. Skar, Ph.D., Associate Professor of Commercial Education

George R. Mach, M.S., Assistant Professor of Commercial Education

Myrtle E. Gaffin, M.A., Instructor in Commercial Education

Dean W. Kuykendall, M.A., Instructor in Commercial Education

Julia M. Myers, M.A., Instructor in Commercial Education

A major in commercial education must include Commercial Education 40, 154, 155, 156, 354, 360, 361, and 362; 8 hours elected from Commercial Education 352, 353, 453, 454, and 455; 3 hours elected from Commercial Education 494, 495, and 496; and 10 additional hours of elective work from courses in commercial education.

The work of a student whose major is commercial education must include Economics 152 and Earth Science 472.

Students may be excused from Commercial Education 154, 155, and 156 when they have had equivalent preparation. Students who fail to make a grade of C or higher in Commercial Education 361 may substitute 5 hours of additional electives in commercial education for Commercial Education 362.

The student whose major is commercial education will be required to take Commercial Education 01: Penmanship, if his penmanship is of inferior quality.

A minor in commercial education consists of at least 20 hours of work in commercial education. It is suggested that the student choose one of the following combinations of courses:*

A. Commercial Education 154, 155, 156, 354, 360, 361, 494, and 496.

B. Commercial Education 50 and 51 (or 51 and 150), 154, 155, 156, 352, 451 or 452, 494, and 495.

C. Commercial Education 50 and 51 (or 51 and 150), 154, 155, 156, 360, 361, 494, and 495 or 496.

*Commercial Education 40 may well be included by students who have had typewriting and shorthand in high school.

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

40. **Introduction to Business**—5 hours. Develops an understanding of the interrelationships and functions of all phases of the business world.

50. ***Shorthand I**—5 hours. No credit for a student who presents entrance credit for one 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 and 155 or equivalent preparation.

150. **Shorthand III**—5 hours. Dictation, reporting, transcription of letters and lectures. Theory and practice in the use of the Ediphone. Prerequisite: Commercial Education 51 and 156 or equivalent preparation.

154. **Typewriting I**—1 hour. No credit for a student who presents entrance credit for one 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. No credit for a student who presents entrance credit for one and one-half units of typewriting. Practice in typing business letters, telegrams, drafts, and business papers. The standard of speed is from twenty-five to forty words a minute. Prerequisite: Commercial Education 154 or equivalent preparation. Daily.

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. Prerequisite: Commercial Education 155 or equivalent preparation. Daily.

345. **Office Machines**—3 hours. Instruction and practice in operation and care of machines. The place of machines in office work. Prerequisite: Commercial Education 156 or equivalent preparation. Practice periods arranged.

*Commercial Education 51 must be completed before credit for Commercial Education 50 may be used in meeting the requirements for graduation.

350. Machine Accounting—1 hour. Use of the accounting machine in bank and mercantile accounting. Prerequisite: elementary bookkeeping or equivalent preparation. Two periods of class work or laboratory work a week.

352. Commercial Correspondence—3 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. Laws relating to business. Special emphasis upon the more common business transactions.

360. 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.

361. 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 360.

362. 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 361.

405. Accounting IV—5 hours. Consolidated statements, estate accounting, federal and state tax accounting, accounting for receiverships, statements of application of funds, and social security accounting. Prerequisite: Commercial Education 362.

450. Commercial Law II—3 hours. Continuation of Commercial Law I. Special emphasis upon the laws relating to insurance, real estate, leases, and mortgages. Study of recent business legislation. 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.

461. Problems in Commercial Education—3 hours. Field and objectives of commercial education; organization of curriculum; consumer-business education materials; community surveys and job analyses; duties of the coordinator; distributive education under the George-Deen Act; trends in commercial education; and selected current problems.

463. Transcription—1 hour. Designed to give the student additional facility in transcribing shorthand notes on the typewriter. Prerequisite: Commercial Education 150 and 156. Daily.

494. The Teaching of Typewriting—1 hour. Credit also as a course in education for a student whose major is commercial education. Prerequisite: Commercial Education 156 and Education 460.

495. The Teaching of Shorthand—2 hours. Credit also as a course in education for a student whose major is commercial education. Prerequisite: Commercial Education 150 and Education 460.

496. The Teaching of Bookkeeping—2 hours. Credit also as a course in education for a student whose major is commercial education. Prerequisite: 10 hours of work from Commercial Education 360, 361, and 362; and Education 460.

Education

E. C. Denny, Ph.D., Professor of Education and Head of the Department

G. W. Walters, M.S., Professor of Education, Emeritus, Part-time Service

A. E. Brown, Ph.D., Professor of Education

H. S. Buffum, Ph.D., Professor of Education

John W. Charles, Ph.D., Professor of Education

H. A. Riebe, Ph.D., Professor of Education

Amy F. Arey, M.A., Associate Professor of Education

John R. Slacks, M.A., Associate Professor of Rural Education

May Smith, M.A., Associate Professor of Education

Charles O. Todd, M.A., Associate Professor of Education

M. J. Wilcox, Ph.D., Associate Professor of Education

I. Psychology

15. Educational Psychology A—5 hours. No credit for a student who has credit for Psychology 20 (Child Psychology) or Psychology 315. Introduction to the study of mental processes with special attention to the psychology of learning and to habit formation with particular applications to elementary schools.

315. Educational Psychology B—5 hours. No credit for a student who has credit for Psychology 15 or Psychology 20 (Child Psychology). Study of mental processes with special attention to the psychology of learning and habit formation with particular applications to the secondary schools.

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

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.

415. Child Psychology—3 hours. Common tendencies and traits of pre-adolescent children. Individual differences and their significance. Prerequisite: 5 hours of psychology.

416. Psychology of Adolescence—3 hours. Changing attitudes and concepts of youths from eleven to eighteen years of age. Mental and physical influences that retard or accelerate mental growth. Individual differences and their significance. Prerequisite: 5 hours of psychology.

420. Social Psychology—5 hours. Thinking and behavior of people as affected by their association with one another. A course in group psychology. Prerequisite: 5 hours of psychology.

2. Education

See pages 59 to 63 for the requirements for a major in nursery school-kindergarten education, kindergarten-primary education, or elementary education.

10. Introduction to Elementary Education—5 hours. Survey of the field of education with attention to historical development; development of the profession of teaching; opportunities for the elementary teacher.

25. Reading and Mathematics for Primary Grades—5 hours. Principles and aims of the teaching of primary reading and mathematics with special attention to methods.

30. Language and Literature for Kindergarten-Primary Grades—3 hours. 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. Methods of teaching the elementary school subjects. The principles which underlie various methods of instruction.

36. The Teaching of Reading and Spelling—5 hours. The teaching of reading and spelling in the elementary school.

38. The Teaching of Social Studies in the Elementary School—2 hours. The materials, content, organization, and techniques at the various grade levels in these fields.

45. Elementary School Management—3 hours. 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. No credit for a student who has credit for Education 45. The extra-instructional activities of the rural school teacher.

131. 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.

305. Introduction to Secondary Education—5 hours. No credit for a student who has credit for Education 10. Survey of the field of education with attention to historical development; development of the profession of teaching; opportunities for the secondary teacher.

310. Methods in the Kindergarten—3 hours. Principles and methods of kindergarten teaching. Prerequisite: 10 hours of psychology and education.

425. Statistical Methods in Education—2 hours. No credit for a student who has credit for Mathematics 406. Statistical methods in common use without detailed reference to their mathematical foundations. Use of these methods in the construction of tests and the classification of pupils.

436. Reading and Language in the Elementary School—5 hours. The materials, content, organization, and techniques at the various grade levels in these fields.

441. The Social Studies Program in the Elementary School—3 hours. Materials and methods. Integration of the social sciences in the elementary grades.

442. Literature for Kindergarten-Primary Children—5 hours.

443. Story Telling—3 hours. Organization of stories for different age levels. Principles underlying successful story telling and practice in the application of these principles. Prerequisite: Education 442. Daily.

444. The Education of Exceptional Children—3 hours. Organization of subject matter for opportunity room teaching. Methods of teaching subnormal, backward, and unusually bright children. Prerequisite: 5 hours of psychology.

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

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

455. Educational Tests for the Elementary School—3 hours. Leading tests in the elementary school field; methods of administering and scoring tests; interpreting and utilizing results; diagnosis of difficulties. Prerequisite: Education 425.

456. Achievement Testing—1 hour. The student will assist in the giving and scoring of achievement tests and in the tabulation, interpretation, and application of the results. Prerequisite: a grade of A, B, or C in Education 455 and the recommendation of the Head of the Department of Education.

458. Mental Tests—3 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: Education 425.

459. Mental Testing—1 hour. Students assist in the giving and scoring of mental tests and in the tabulation and interpretation of the results. Prerequisite: a grade of A, B, or C in Education 458 and the recommendation of the Head of the Department of Education.

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 425.

464. The Kindergarten-Primary Curriculum—5 hours. Purpose, origin, construction, and function of the kindergarten-primary curriculum.

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

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

472. Secondary School Supervision—5 hours. Principles underlying the improvement of instruction in the high school. Designed for superintendents, high-school supervisors, principals, and teachers. Prerequisite: Education 460.

475. School Administration—5 hours. 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.

480. Visual Education—1 hour. Lectures on visual aids; demonstration of the uses of visual materials, operation and care of machines and materials. Student preparation and presentation of visual materials. Two periods a week.

482. History of Nursery School, Kindergarten, and Primary Education—3 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.

483. Vocational Guidance—2 hours. Principles underlying the selection of an occupation.

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.

Credit in one of the following courses, though counted but once toward graduation, is used in meeting the requirements in education for a student whose major is in the line indicated, and is used also in meeting the requirements in the major.

- (a) The Teaching of Art (Art 490)—2 hours
- (b) The Teaching of Industrial Arts (Industrial Arts 490)—2 hours
- (c) The Teaching of Typewriting (Commercial Education 494)—1 hour
- (d) The Teaching of Shorthand (Commercial Education 495)—2 hours
- (e) The Teaching of Bookkeeping (Commercial Education 496)—2 hours
- (f) The Teaching of English (English 490)—2 hours (Also used as education when the major is speech.)
- (g) Methods in Home Economics (Home Economics 490)—2 hours
- (h) The Teaching of French (French 490)—2 hours
- (i) The Teaching of German (German 490)—2 hours
- (j) The Teaching of Latin (Latin 490)—2 hours
- (k) The Teaching of Secondary Mathematics (Mathematics 490)—2 hours
- (l) Supervision of Music (Music 490)—2 hours

- (m) **Methods in Physical Education** (Physical Education for Men 490)—2 hours
- (n) **Tests and Measurements in Physical Education** (Physical Education 492)—2 hours
- (o) **The Teaching of Science** (Science 490)—2 hours
- (p) **The Teaching of Geography** (Earth Science 493)—2 hours
- (q) **The Teaching of the Social Sciences** (Social Science 490)—2 hours. (Also used as education when the major is history.)

3. Library Science

489. Library Science—2 hours. Problems of the school library and its organization. Selection and classification of books. Offered by members of the library staff.

English

B. E. Boothe, Ph.D., Assistant Professor of English and Head of the Department

Lillian V. Lambert, M.Ph., Professor of English, Emeritus, Part-time Service

Samuel A. Lynch, M.A., Professor of English, Emeritus, Part-time Service

W. B. Fagan, M.A., Professor of English

Floyd W. Lambertson, Ph.D., Professor of Speech

Selina M. Terry, M.A., Professor of English

Nelius O. Halvorson, Ph.D., Associate Professor of English

E. H. Henrikson, Ph.D., Associate Professor of Speech

Anna Marie Sorenson, M.A., Associate Professor of English

Hazel B. Strayer, M.A., Associate Professor of Speech

Katherine Buxbaum, M.A., Assistant Professor of English

Herbert V. Hake, M.A., Assistant Professor of Speech

George H. Holmes, M.A., Assistant Professor of English

H. Willard Reninger, Ph.D., Assistant Professor of English

Ida C. Rohlf, M.A., Assistant Professor of English

E. Arthur Robinson, Ph.D., Instructor in English

Gerald E. Knoff, Ph.D., Director of the Bureau of Religious Activities

A student whose major is English or speech must earn 20 hours of credit in one foreign language if he presents no entrance credit in foreign language; if he presents 1 unit to $1\frac{1}{2}$ units in one foreign language, he must earn 10 hours of credit in the same foreign language or 15 hours of credit in a new foreign language; if he presents 2 to $2\frac{1}{2}$ units in one foreign language, he must earn 5 hours of credit in the same foreign language or 15 hours of credit in a new foreign language. No additional work in foreign language is required of a student who has earned 3 or more units of one or two foreign languages in high school.

I. English

English 1 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 110 and 325; Eng-

lish 322 and two other period courses in English literature, to be chosen from courses 315, 418, 422, and 425; English 443, 445, 460, and 490; and either English 440 or 442.

Courses primarily devoted to written composition are numbered as follows: 1, 100, 300, 310, 400, 405, and 410.

A minor in English consists of at least 20 hours of work in English, which should be distributed as follows: English 110 and either 100 or 300, 10 hours; 325 or 435, 5 hours; 322, 425, or 445, 5 hours.

English 1 may not be included in a major or a minor in English.

1. English I—5 hours. Frequent compositions, with emphasis upon expository writing. The careful reading and discussion of a few books which offer stimulating interpretations of present-day life in America, especially in the Midwest. Required of all freshmen.

100. English II—5 hours. Frequent compositions. Expository writing continued; descriptive and narrative techniques introduced. The careful reading and discussion of a few books which broaden the student's capacity to read imaginative literature and apply it to his own experience.

110. The Appreciation of Literature—5 hours. The problems in the understanding of mature imaginative literature, with emphasis upon poetry and non-fictional prose. Introduction to the essential traditions of English and American literature.

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

305. Literature for Intermediate Grades—3 hours. Study of the basic principles for the selection of literary material for the intermediate grades. The teaching of literature in the intermediate grades.

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.

315. Medieval Literature—5 hours. English literature from the beginning to 1500. Important types and traditions of early English literature, with special attention to Chaucer. Prerequisite: English 110.

322. Romantic Literature—5 hours. Chronological limits: 1798-1832. Emphasis upon the major English poets of the Romantic

Period, Wordsworth, Shelley, Byron, and Keats, and their social background. Prerequisite: English 110.

325. Shakespeare—5 hours. Intensive study of selected plays; reading of other plays; brief study of the non-dramatic works of Shakespeare. Prerequisite: 10 hours of English.

330. The Contemporary Novel—5 hours. An intensive study of a variety of contemporary novels. Readings, reviews, and criticisms. Prerequisite: 10 hours of English.

400. Advanced Story Writing—5 hours. Technique of the short story. Writing of short stories. Prerequisite: English 100 or 300.

405. The Essay—5 hours. Development of the essay. Practice in the writing of original essays. Prerequisite: English 100 or 300.

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

415. High School Publications—1 hour. Advisement and publication of high-school papers and annuals.

418. Renaissance Literature—5 hours. A selection of English literature from 1500 to 1660. The development of Renaissance culture in England as it is reflected in literature, with emphasis upon the most important non-dramatic authors; More, Spenser, Bacon, and Milton. Prerequisite: English 322 and 325.

422. Eighteenth Century Literature—5 hours. No credit for a student who has credit for English 320 (English Literature, 1625-1784). Chronological limits: 1660-1798. A study of the English literature from Dryden to Wordsworth, as it reflects the rationalist philosophy in religion, economics, and politics, and in the social manners of the time. Prerequisite: English 322.

425. Victorian Literature—5 hours. English literature from 1832 to 1880. Emphasis upon the major prose writers, Carlyle, Ruskin and Arnold, and upon the major poets, Tennyson and Browning. Prerequisite: English 110.

430. The Development of the English Drama—5 hours. Representative plays of the outstanding periods in the development of English drama, studied in the light of their social and theatrical background. Prerequisite: English 325.

435. The English Novel to 1900—5 hours. The development of the English novel from Sir Thomas Malory to Thomas Hardy. Emphasis upon the major novelists of the nineteenth century. Prerequisite: 10 hours of English.

440. Contemporary English Poets—2 hours. The careful study of a few highly influential poets, such as Hardy, Yeats, and Lawrence. Prerequisite: English 110.

442. American Poets since 1865—2 hours. The origins, tendencies, and traditions of contemporary American poetry. Prerequisite: English 110.

443. American Prose Writers since 1865—3 hours. The rise of American realism in the Gilded Age, 1866-1900. Main currents of American prose since the World War. Prerequisite: English 110.

445. American Literature, 1620-1865—5 hours. Definition of the main traditions of American culture before 1800. Emphasis upon the Romantic Period of American literature; the most representative authors of the generation before the Civil War. Prerequisite: English 110.

450. Literary Criticism—5 hours. A study of the theory and practice which govern the judgment of literary worth. Brief survey of the great critics of the past. Individual practice in judging published and unpublished work. Prerequisite: English 110.

455. The Technique of English Poetry—5 hours. A study of poetry which aims, through wide reading and experimental writing, to give an understanding of its nature and forms. Prerequisite: English 110.

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. The teaching of the English language. Prerequisite: 15 hours of foreign language or its equivalent and English 110 or equivalent.

490. The Teaching of English—2 hours. Credit also as a course in education for a student whose major is English or speech. Prerequisite: 20 hours of English, and Education 460.

2. Speech

Speech 20 is a prerequisite of all other courses in speech with the exception of Speech 485.

A major in speech must include 38 hours of work in speech except that English 325, 400 and 430, though not included in the speech major line, may be counted as a part of the 38-hour requirement.

The work of a student whose major is speech must include English 490.

A minor in speech consists of at least 20 hours of work in speech.

20. Fundamentals of Speech—3 hours. No credit for a student who has credit for Speech 110 or 115 (Oral Interpretation I).

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.

114. Voice and Diction—2 hours. Development of the speaking voice with special attention to the personal, social, and professional needs of the student.

120. Interpretative Speech—5 hours. Individual oral interpretation of selections from all forms of literature. Principles and practice of choral reading. Prerequisite: Speech 20 or equivalent preparation.

335. Theory of Debating—2 hours. This course should accompany Speech 336.

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.

340. Play Production I—5 hours. Study and presentation of scenes from full-length plays and of one-act plays. Studio productions. Prerequisite: Speech 120 or equivalent preparation.

355. Stagecraft I—2 hours. The fundamentals of stage scenery and lighting. May not be used in meeting the requirements of a major in speech unless credit is earned for Speech 356. A student should not enroll in Speech 355 and 356 at the same time. Three periods a week.

356. **Stagecraft II**—3 hours. Advanced theory and practice of scene construction and stage lighting. A student should not enroll in Speech 355 and 356 at the same time. Four periods a week.

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

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.

467. **Radio Speaking**—2 hours. Projects in the techniques of radio speaking. Audience analysis and adaptation to various groups of listeners.

470. **Directing Speech Arts**—5 hours. Principles of the directing of plays through study of composition and stage movement. Evaluation of objectives and procedures in building a program of speech activities in high schools.

475. **Play Production II**—5 hours. Intensive, historical study of techniques of acting. Studio production of a major play. Prerequisite: Speech 120 or equivalent preparation.

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 (Child Psychology) or 315.

3. Religious Literature and Philosophy

125. **The Bible as Literature**—5 hours. Credit in this course may be counted as part of the major in English.

130. **The Life of Jesus**—3 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.

365. **Christian Ethics**—3 hours.

402. **Religions of the World**—5 hours. Study of the great religions which hold sway throughout the world.

404. **Problems of Religious Thought**—5 hours. Basic concepts of religion.

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

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

Home Economics

Agnes McClelland, M.A., Instructor in Home Economics

Elizabeth M. Nyholm, M.S., Instructor in Home Economics

A major in home economics must include Home Economics 10, 11, 12, 161, 300, 321, 322, 401, 402, 420, 440, 450, 451, and 490.

The work of a student whose major is home economics must include Art 16 and 115; Chemistry 121, 122, 321, and 328; and Biological Science 11.

A minor in home economics consists of at least 20 hours of work in home economics including the following courses: Home Economics 161; either 70 or 470; either 72 or 471; and 490.

10. **Textiles**—3 hours. The chief fibres and materials used in clothing and house furnishings. Daily.

11. **Costume Design**—3 hours. Prerequisite: Art 115. Daily.

12. **House Furnishing and Decoration**—3 hours. Prerequisite: Art 115.

60. **Nutrition of Children**—3 hours.

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

300. **Child Care**—3 hours.

321. **Foods I**—4 hours. Principles of cookery and the nutritive facts involved. Chemistry 122 must precede or accompany this course. Recitations, 2 periods a week; laboratory work, 4 periods a week.

322. **Foods II**—4 hours. Prerequisite: Chemistry 122 and Home Economics 321 or equivalent preparation. Recitations, 2 periods a week; laboratory work, 4 periods a week.

401. **Clothing I**—4 hours. No credit for a student who has credit for Home Economics 70 or 470. Problems in the selection and construction of clothing. Prerequisite: Home Economics 10 and 11. Recitations, 2 periods a week; laboratory work, 4 periods a week.

402. **Clothing II**—4 hours. No credit for a student who has credit for Home Economics 70, 71 (Clothing for Children), or 470. Prerequisite: Home Economics 401 or equivalent preparation. Recitations, 2 periods a week; laboratory work, 4 periods a week.

420. Meal Planning and Serving—3 hours. No credit for a student who has credit for Home Economics 72 or 471. Prerequisite: Home Economics 322. Recitation, 1 period a week; laboratory work, 4 periods a week.

440. Advanced Nutrition—4 hours. Principles of nutrition. The selection of food for normal individuals. Prerequisite: Home Economics 322; Chemistry 328 must precede or accompany this course. Recitations, 3 periods a week; laboratory work, 2 periods a week.

450. Home Management—3 hours.

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—2 hours. Credit also as a course in education for a student whose major is home economics. Prerequisite: Education 460.

Special Courses in Home Economics

A student whose major is 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.

72. Food Preparation and Meal Service—5 hours. No credit for a student who has credit for Home Economics 321 and 322. Recitations, 3 periods a week; laboratory work, 4 periods a week.

470. Textiles and Clothing—5 hours. No credit for a student who has credit in Home Economics 10, 401, or 402. Textiles, fabrics, and their care; important phases of dress design and construction; selection of the wardrobe.

471. Food for the Family—5 hours. No credit for a student who has credit for Home Economics 321 and 322 or Home Economics 72 or 420. Essentials of food selection and preparation and of meal planning and serving. Recitations, 3 periods a week; laboratory work, 4 periods a week.

Languages

Ingebrigt Lillehei, Ph.D., Professor of French and Spanish and
Head of the Department

Frank Ivan Merchant, Ph.D., Professor of Latin and Greek,
Emeritus, Part-time Service

Josef Schaefer, Ph.D., Associate Professor of German

Isabel Thomes, M.A., Associate Professor of Spanish and French

Edna O. Miller, M.A., Assistant Professor of Latin

I. French

A major in French must include French 490 and 38 hours of elective work in French except that 10 hours of credit in Spanish 301 to 402, though not included in the French major line, may be counted as a part of the 38-hour requirement.

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.

A minor in French consists of at least 20 hours of work in courses in French which are more advanced than French 101.

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

102. ***French II**—5 hours. Prerequisite: French 101 or equivalent preparation.

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 and 302 or equivalent preparation.

*French 103 or an approved substitute must be completed before credit for French 101 or 102 may be used in meeting the requirements for graduation.

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 hour. Lectures, with reading of the works of the more recent French dramatists. 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.

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.

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. Credit also as a course in education for a student whose major is French. Prerequisite: French 305 and 306 or equivalent preparation and Education 460.

2. German

A major in German must include German 490 and 38 hours of elective work in 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.

A minor in German consists of at least 20 hours of work in courses in German which are more advanced than German 101.

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

102. *German II—5 hours. Prerequisite: German 101 or equivalent preparation.

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 19th Century—5 hours. Representative works 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.

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

*German 103 or an approved substitute must be completed before credit for German 101 or 102 may be used in meeting the requirements for graduation.

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 of work 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. Credit also as a course in education for a student whose major is German. Prerequisite: German 301 and 10 hours of work from German 302, 303, 304, 305, 306, and 401, and Education 460.

3. Latin

A major in Latin must include Latin 490 and 38 hours of elective work in Latin except that 10 hours of credit in French 301 to 410, though not included in the Latin major line, may be counted as a part of the 38-hour requirement. The Latin courses of a major in Latin must be selected from courses 109, 110, 111, 301, 401, and 490.

All of the work of a minor in Latin (20 hours) must be selected from courses 107, 108, 109, 110, 111, 301, 401, and 490.

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

102. ***Elementary Latin II**—5 hours. Prerequisite: one year of high-school Latin or Latin 101 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.

*Latin 103 or an approved substitute must be completed before credit for Latin 101 or 102 may be used in meeting the requirements for graduation.

107. **Vergil I**—5 hours. Selections from the Aeneid. Prerequisite: three years of high-school Latin or Latin 104 or equivalent preparation.

108. **Vergil II**—5 hours. Prerequisite: half-year of Vergil in high school or Latin 107.

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 involving 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.

490. **The Teaching of Latin**—2 hours. Credit also as a course in education for a student whose major is Latin. Prerequisite: Latin 109 or equivalent preparation and Education 460.

4. 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 in the sophomore year.

A minor in Spanish consists of at least 20 hours of work in courses in Spanish which are more advanced than Spanish 101.

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

102. ***Spanish II**—5 hours. Prerequisite: Spanish 101 or equivalent preparation.

*Spanish 103 or an approved substitute must be completed before credit for Spanish 101 or 102 may be used in meeting the requirements for graduation.

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.

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 Bena-vente, Martinez-Sierra, and Quintero. Prerequisite: Spanish 301 and 302 or equivalent preparation.

307. **Readings from Contemporary Spanish Authors**—2 hours. Representative novels, dramas, and essays selected. 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.

5. Courses Presented in the English Language

451. **French Drama in Translation**—3 hours. A survey with lectures in English and collateral reading of English translations.

453. **German Literature**—3 hours. A survey revealing characteristics of German language, literature, and peoples. Readings in English of epics, dramas, and novels.

455. **History of Latin Literature**—3 hours. Survey of Latin literature from its beginnings to the end of the silver age. Contribution of the Romans to world thought. Readings in English of representative authors.

457. Spanish Civilization—3 hours. Social and political background of the Spanish peoples and their contributions to world culture.

459. Spanish Literature—2 hours. Lectures in English with readings from English translations of Spanish classics.

461. Norwegian Literature—3 hours. Literature of the nineteenth and twentieth centuries in English translation. The principal works in fiction and drama of such authors as Ibsen, Björnson, Garborg, Hamsun, and Undset. Lectures on the historical, linguistic, and cultural background.

Mathematics

Henry Van Engen, Ph.D., Assistant Professor of Mathematics and Head of the Department

Ira S. Condit, M.A., Professor of Mathematics, Emeritus, Part-time Service

Emma F. Lambert, M.A., Professor of Mathematics

E. E. Watson, M.S., Professor of Mathematics

Charles W. Wester, M.A., Professor of Mathematics

A major in mathematics consists of at least 42 hours of work in mathematics which must include Mathematics 416, 490, and either 304 or 305.

A minor in mathematics consists of at least 23 hours of work in mathematics which must include Mathematics 101 and at least 2 hours from courses 304, 305, and 306.

10. Principles of Elementary Mathematics I—5 hours. An instructional program in arithmetic; applications of the principles of educational psychology to the work in arithmetic for grades one to eight. Diagnostic and remedial work.

100. Mathematics I, College Algebra—5 hours. No credit for a student who presents two units of entrance credit in algebra. Prerequisite: Mathematics 110.

101. Mathematics II—5 hours. No credit for a student who presents one-half unit of entrance credit in trigonometry. Trigonometry and continuation of college algebra. Prerequisite: Mathematics 100.

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

110. Survey of Mathematics—5 hours. Develops the social significance of mathematics and shows the relationship of mathematics to other fields of learning. Required of each student who has either a major or a minor in mathematics but designed also for those who do not plan to take further work in mathematics.

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

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 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 415.

401. **Theoretical Mechanics A**—3 hours. Principles of dynamics and their applications in the field of mathematical physics. Prerequisite: Mathematics 415.

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 415.

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 416.

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.

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.

410. **Materials in Secondary Mathematics**—3 hours. Prerequisite: two courses in college mathematics and Education 460.

415. **Calculus I**—5 hours. Differential calculus with applications. Prerequisite: Mathematics 102.

416. **Calculus II**—5 hours. Integral calculus. Prerequisite: Mathematics 415.

417. **Calculus III**—5 hours. Taylor's theorem, series, theorem of the mean, partial differentiation, practical applications, easy differential equations. Prerequisite: Mathematics 416.

490. **The Teaching of Secondary Mathematics**—2 hours. Credit also as a course in education for a student whose major is mathematics. Prerequisite: two courses in college mathematics and Education 460.

Music

Edward Kurtz, M.A., Professor of Violin and Composition and
Head of the Department

Louis Crowder, B.A., Assistant Professor of Piano

William E. Hays, M.Mus., Assistant Professor of Voice

Harald B. Holst, M.Mus., Assistant Professor of Voice

Rose Lena Ruegnitz, M.Mus., Assistant Professor of Piano

Myron Russell, M.Mus., Assistant Professor of Wood-wind Instruments

Roland Searight, M.A., Assistant Professor of Violoncello and
Conducting

Olive L. Barker, M.A., Instructor in Voice

Russell N. Baum, M.Mus., Instructor in Piano

Emil W. Bock, M.Mus., Instructor in Violin

Verner D. Delaney, M.A., Instructor in Music Education

Frank W. Hill, M.Mus., Instructor in Violin, Viola, and Theory

George W. Samson, Jr., Instructor in Organ and Piano

Annette Wilkins, M.Mus., Instructor in Voice

Carl A. Wirth, M.Mus., Instructor in Brass Instruments and
Theory

A student whose major is in the field of music must earn 20 hours of credit in one foreign language if he presents no entrance credit in foreign language; if he presents 1 unit to 1½ units in one foreign language, he must earn 10 hours of credit in the same foreign language or 15 hours of credit in a new foreign language; if he presents 2 to 2½ units in one foreign language, he must earn 5 hours of credit in the same foreign language or 15 hours of credit in a new foreign language. No additional work in foreign language is required of a student who has earned 3 or more units of one or two foreign languages in high school.

A major in school music must include Music 01, 02, 03, 04, 05, 06, 13, 14, 15, 300, 302, 303, 308, 317, 318, 400, 402, 403, 404, 405, 408, 409, 410, 411, 412, 413, 430, 435, 436, and 437. The student must select a field of applied music (known as the applied major field) for specialization. The student must earn 21 hours in the applied major field or 12 hours in the applied major field and 9 hours in some other field of applied music and must pass an examination including Grade XII in his applied major field. Three hours in piano are also required except that on passing a satisfactory examination (Grade VI) in piano the Head of the Department of Music may per-

mit the substitution of other credit in applied music. If the student takes work in violin, Music 01, 02, and 03 may be omitted; if the student takes work in voice, Music 04, 05, and 06 may be omitted; and 1 hour of work in Music 300 to 303 may be omitted for each quarter of work in an instrument corresponding to the instruments studied in Music 300 to 303. Each student must make a public appearance in the applied major field.

Activities: A student whose applied major field is voice must take 12 quarters of work in chorus. A student whose applied major field is an instrument is required to take 6 quarters in ensemble and, unless the instrument is piano or organ, 12 quarters of work in orchestra or band or both, and 3 quarters in chorus. Attendance at recitals and public music events presented by the Department of Music is required. The Head of the Department of Music may in special cases excuse students from the above activities.

Students may also major in applied music in case the applied major field is voice, piano, organ, violin, viola, or cello. The major must include Music 13, 14, 15, 308, 317, 318, 400, 402, 403, 404, 405, 408, 409, 410, 411, 412, 414, 415, 416, and 2 hours from 300, 302, and 303. The student must earn at least 21 hours in the applied major field and 3 hours in other applied music, or 24 hours in the applied major field; must pass an examination in the applied major field (Grade XVIII); and must give a recital in the senior year.

Activities: A student whose applied major field is voice must take 12 quarters of work in chorus; a student whose applied major field is a stringed instrument must take 12 quarters of work in orchestra and 6 quarters in ensemble; and a student whose applied major field is piano or organ must take 6 quarters of work in ensemble. Attendance at recitals and public music events presented by the Department of Music is required. The Head of the Department of Music may in special cases excuse students from the above requirements.

Students desiring to minor in the field of music must choose one of the following:

A. Vocal music for elementary grades

The requirements are Music 13, 14, 15, 400, 402, and 6 hours in voice. The student must have or attain suitable proficiency in piano and must take six quarters in chorus or glee club.

B. Vocal music for high schools

The requirements are Music 13, 14, 15, 408, 412, 430, and 6 hours in voice. The student must have or attain suitable proficiency in piano and must take six quarters in chorus or glee club.

C. Band and orchestra conducting

The requirements are Music 01, 02, 03, 13, 14, 15, 300, 302, 303, 412, 413, and 6 hours in a field of applied music. The student must have or attain suitable proficiency in piano and must take six quarters of band or orchestra.

A student whose minor is in the field of music must attend all recitals for six quarters unless released by the Head of the Department of Music.

01. **Violin in Class A**—Drill credit. Two periods a week.
02. **Violin in Class B**—Drill credit. Prerequisite: Music 01. Two periods a week.
03. **Violin in Class C**—Drill credit. Prerequisite: Music 02. Two periods a week.
04. **Voice in Class A**—Drill credit. Two periods a week.
05. **Voice in Class B**—Drill credit. Prerequisite: Music 04. Two periods a week.
06. **Voice in Class C**—Drill credit. Prerequisite: Music 05. Two periods a week.
10. **Elements of Music**—2 hours. No credit for a student whose major is in the field of music. Introductory course in school music consisting of singing, rhythmic development, and elementary theory. Daily.
11. **Music for Kindergarten-Primary Grades**—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. No credit for a student who has credit for Music 400. Prerequisite: Music 10 or equivalent preparation. Four periods a week.
12. **Music for Intermediate Grades**—2 hours. No credit for a student whose major is in the field of music. No credit for a student who has credit for Music 402. Training in singing; essentials of theory; sight singing, ear training, and dictation; elementary conducting. Prerequisite: Music 10 or equivalent preparation. Four periods a week.
13. **Aural Theory I**—3 hours. Eurythmics. Elementary theory. Simple rhythmic and melodic dictation. Sight singing of folk songs. Elementary key-board harmony. Daily.

14. Aural Theory II—3 hours. Sight singing of melodies involving chromatic difficulties. Melodic dictation in major and minor with modulations to nearly related keys. Harmonic dictation using principal triads in root position and in inversions. More advanced keyboard harmony using cadence formulas and modulations. Rhythmic dictation involving syncopation. Prerequisite: Music 13. Daily.

15. Aural Theory III—3 hours. Introduction to part writing. Advanced harmonic dictation using secondary triads, all inversions and modulations. Melodic dictation in major and minor modulating to all related keys and involving more difficult leaps and rhythms. Keyboard harmony continued, including harmonization of simple tunes and figured basses at sight and modulating to all keys. Introduction of alto and tenor clefs in sight singing. Singing of part songs at sight. Prerequisite: Music 14. Daily.

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

302. *Orchestral Instruments II—1 hour. Wood-wind instruments.

303. *Orchestral Instruments III—1 hour. Brass instruments.

Study of instrument in class; selection and care of instrument; methods of instruction. Two periods a week.

308. Harmony I—3 hours. A course designed to familiarize the student with the construction and manipulation of all types of seventh chords and ninth chords, and chromatic alterations of fundamental harmonies. Harmonic analysis, keyboard harmonization, and aural perception of chords in harmonic progressions are emphasized. Prerequisite: Music 15.

317. Harmony II—3 hours. Devoted to study of methods of modulation and ornamental harmony such as suspensions, anticipations, organ point, and passing notes. This course emphasizes practical application of the work in Harmony I, i.e., piano accompaniments to songs, keyboard harmonization, and original settings for children's rhymes. Prerequisite: Music 308.

318. Harmony III—3 hours. A study of modern harmonic devices, classification and evolution of modern harmonies. A study of the harmonic contributions of contemporary composers. Emphasis on original examples of such devices as polytonality, chord-building by fourths, and whole-tone writing. Modal harmonies and duodecuple construction. Prerequisite: Music 317.

*Credit only for a student whose major or minor is in the field of music.

400. School Music Methods I—3 hours. No credit for a student who has credit for Music 11. Materials and methods for kindergarten and primary grades. Prerequisite: Music 15.

402. School Music Methods II—3 hours. No credit for a student who has credit for Music 12. Materials and methods for intermediate grades. Prerequisite: Music 15.

403. Counterpoint I—2 hours. The species in two, three, and four parts. Motive development and imitation. Original work with early polyphonic forms. Prerequisite: Music 318.

404. Counterpoint II—2 hours. Inventions and choral forms. Analysis of the Bach two-part inventions and organ choral preludes. Prerequisite: Music 403.

405. Counterpoint III—2 hours. Canon and fugue. Analysis of Bach's Well-Tempered Clavichord. Prerequisite: Music 404.

408. School Music Methods III—3 hours. Materials and methods for junior and senior high schools. Prerequisite: Music 15.

409. *Orchestration I—1 hour. Prerequisite: Music 318.

410. *Orchestration II—1 hour. Prerequisite: Music 409.

411. Orchestration III—1 hour. Prerequisite: Music 410.

Study, arrangement, and preparation of orchestral scores.

412. Conducting—2 hours. Baton techniques, score reading; practice in conducting. Prerequisite: Music 15. Three periods a week.

413. Band Management—2 hours. Development of school bands; marching and drill maneuvers; arrangement and preparation of band scores. Prerequisite: Music 412. Three periods a week.

414. **Composition I—1 hour. The phrase and its development and harmonic equipment. The period form single and double. Prerequisite: Music 437.

415. **Composition II—1 hour. The song forms; the two-part 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.

*Music 411 must be completed before credit for Music 409 and 410 may be used in meeting the requirements for graduation.

**Music 416 must be completed before credit for Music 414 or 415 may be used in meeting the requirements for graduation.

430. Vocal Materials—1 hour. Materials for vocal ensembles, glee clubs, choruses, and a cappella choirs. Prerequisite: Music 412. Two periods a week.

435. Music History and Form I—2 hours. Survey of the development of music from its primitive origins through classical antiquity up to the end of the 18th century. Music literature from Gregorian chant to the Mozart symphonies and the operas of Gluck studied by means of phonograph records and slides. Early forms, suites, song forms, sonata form. Prerequisite: Music 318. Three periods a week.

436. Music History and Form II—2 hours. Music of the 19th century. Literature from Beethoven to Debussy. Development of romanticism, nationalism, program music. The music dramas of Wagner. Analysis of a Beethoven symphony. Prerequisite: Music 435. Three periods a week.

437. Music History and Form III—2 hours. Music of the 20th century in all countries with special emphasis on the growth of music in America. Development of new forms. Analysis of a modern work. Prerequisite: Music 436. Three periods a week.

490. Supervision of Music—2 hours. Credit also as a course in education for a student whose major is in the field of music. History of public school music in the United States. The present school music curriculum. Criteria for the evaluation of music teaching and problems of supervising the music program. Prerequisite: 20 hours of credit in music and Education 460.

Applied Music

For each hour of credit the work in applied music requires one lesson a week for one quarter. A student whose major is music may earn two hours of credit by taking two or more lessons a week. This work is evaluated by means of grades ranging from I to XVIII which are determined by the difficulty of the selection rendered and by the quality of the performance. The student must show improvement as the work in any line progresses. For information concerning the requirements for each grade consult the Head of the Department of Music.

With the permission of the Head of the Department of Music a student whose major is in music may register in the junior and senior years for courses in applied music which are open to sophomores, juniors and seniors, or to juniors and seniors without having had previous courses in the same field.

100. **Applied Music I**—The 1st, 2nd, and 3rd quarters of work in voice.

320. **Applied Music II**—The 4th, 5th, and 6th quarters of work in voice.

420. **Applied Music III**—The 7th to 12th quarters of work in voice.

101. **Applied Music IV**—The 1st, 2nd, and 3rd quarters of work in piano or organ.

321. **Applied Music V**—The 4th, 5th, and 6th quarters of work in piano or organ.

421. **Applied Music VI**—The 7th to 12th quarters of work in piano or organ.

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

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

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

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

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

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

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

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

424. **Applied Music XV**—The 7th to 12th quarters 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.

Physical Education for Men

L. L. Mendenhall, M.A., Professor of Physical Education for Men and Head of the Department

Paul F. Bender, D.Ed., Assistant Professor of Physical Education for Men

Arthur Dickinson, M.A., Assistant Professor of Physical Education for Men

David H. McCuskey, M.A., Instructor in Physical Education for Men

Oliver M. Nordly, B.A., Instructor in Physical Education for Men

Clyde L. Starbeck, B.S., Instructor in Physical Education for Men

Lawrence W. Whitford, M.A., Instructor in Physical Education for Men

Max L. Durfee, M.D., Health Director

A major in physical education (men) must include Physical Education 300, 351, 352, 353, 354, 451, 452, 455, 456, 457, 463, 471, 472, 473, and 490.

The work of a student whose major is physical education (men) must include Biological Science 11 and 300.

A minor in physical education (men) must include Physical Education 455, 456, 457, and 473; courses in Football, Baseball, Basketball, Track and Field, and electives to make a total of at least 20 hours.

During one of the first four quarters in residence men students who have not passed a swimming test given by the department must complete a course in swimming.

Courses Offered to Both Men and Women

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

301. **Kinesiology**—3 hours. Body mechanics in relation to physical development and efficiency. Physical Education 300 must precede or accompany this course.

407. **School Health Problems**—3 hours. No credit for a student who has credit for Biological Science 300. 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.

408. Therapeutic Exercise—2 hours. Theory and practice of remedial posture measures and massage in the school program. Prerequisite: Physical Education 300, 301, and Biological Science 11.

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: Biological Science 11 and Physical Education 300.

471. History and Principles of Physical Education—3 hours. For women this course must be accompanied by Physical Education for Intermediate Grades as arranged.

492. Tests and Measurements in Physical Education—2 hours. Credit also as a course in education for a student whose major is physical education. Analysis, interpretation, and use of tests in physical education. Prerequisite: Education 460.

Courses Offered to Men

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, diamond-ball, floor and mat work, football, games, golf, gymnastics, handball, modified activities, six-man football, soccer, soft ball, speedball, beginning swimming, advanced swimming, tennis, touch football, track and field, volleyball, and wrestling.

Men and women may enter any activity course offered by either department of physical education, without earning physical education credit, upon the approval of the head of the department giving the course. If credit is desired, the advance approval of the heads of both departments and the Dean of the Faculty is required.

351. Football I—2 hours. Physical Education 01: Football must accompany this course.

352. Basketball I—2 hours. Physical Education 01: Basketball must accompany this course.

353. Baseball—2 hours. Physical Education 01: Baseball must accompany this course.

354. Track and Field—2 hours. Physical Education 01: Track and Field must accompany this course.

451. Football II—2 hours. Physical Education 01: Football must accompany this course. Prerequisite: Physical Education 351.

452. Basketball II—2 hours. Physical Education 01: Basketball must accompany this course. Prerequisite: Physical Education 352.

455. Gymnastics—2 hours. Gymnastic marching. Elementary exercises on bars, horse, mats, and other apparatus. Physical Education 01: Gymnastics must accompany this course.

456. Swimming—2 hours. Physical Education 01: Swimming must accompany this course.

457. Activities for Schools—2 hours. Activities suitable for the growing child at different age levels. Physical Education 01: Games must accompany this course.

458. Wrestling—2 hours. Physical Education 01: Wrestling must accompany this course.

459. Recreational Leadership—2 hours. City, county, state, and national organizations promoting recreational activities. Playground equipment and programs. Physical Education 01: Games must accompany this course.

463. Training and First Aid—2 hours. Diet; treatment of injuries; massage and bandaging; lectures, demonstrations, and practice. Prerequisite: Biological Science 11 and Physical Education 300.

472. Supervision of Physical Education—3 hours. This course must be taken in conjunction with Methods in Physical Education. Prerequisite: Physical Education 351 or 451 and 352 or 452.

473. Organization and Administration of Physical Education—3 hours.

490. Methods in Physical Education—2 hours. Credit also as a course in education for a student whose major is physical education (men). This course must be taken in conjunction with Supervision of Physical Education. Prerequisite: Education 460.

Physical Education for Women

Monica R. Wild, Ph.D., Professor of Physical Education for Women and Head of the Department

Doris E. White, M.A., Associate Professor of Physical Education for Women

Dorothy Humiston, Ph.D., Assistant Professor of Physical Education for Women

Grace Van Ness, M.A., Assistant Professor of Physical Education for Women

Dorothy Michel, M.A., Instructor in Physical Education for Women

Maude E. Moore, M.A., Instructor in Physical Education for Women

Thelma Short, M.A., Instructor in Physical Education for Women

Max L. Durfee, M.D., Health Director

A major in physical education (women) must include Physical Education 100, 300, 301, 303, 305, 401, 402, 403, 404, 406, 407, 408, 410, 471, and 492.

The work of a student whose major is physical education (women) must include Biological Science 11 and 100; and four courses in Physical Education 01 each quarter unless the student is released by the adviser from this requirement. The student must pass a test in the playing of piano accompaniments for rhythmic work in physical education.

A minor in physical education (women) must include Physical Education 300, 305, and 471; 5 hours of work selected from courses 401, 402, 403, and 404; at least 5 hours of elective work in physical education for women; and at least two courses in Physical Education 01 each quarter for six quarters unless released from this requirement by the Head of the Department of Physical Education for Women.

With the consent of the adviser a student may register for four courses in Physical Education 01 each quarter provided that the total number of periods required for this work does not exceed eight periods a week.

Courses Offered to Both Men and Women

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

301. Kinesiology—3 hours. Body mechanics in relation to physical development and efficiency. Physical Education 300 must precede or accompany this course.

407. School Health Problems—3 hours. No credit for a student who has credit for Biological Science 300. 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.

408. Therapeutic Exercise—2 hours. Theory and practice of remedial posture measures and massage in the school program. Prerequisite: Physical Education 300, 301, and Biological Science 11.

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.

471. History and Principles of Physical Education—3 hours. For women this course must be accompanied by Physical Education for Intermediate Grades as arranged.

492. Tests and Measurements in Physical Education—2 hours. Credit also as a course in education for a student whose major is physical education. Analysis, interpretation, and use of tests in physical education. Prerequisite: Education 460.

Courses Offered to Women

01. Physical Education

The work in Physical Education 01 required of all women students is selected from the following courses:

Group Games and Team Sports: games (representative activities for various age groups), simple team games (mainly the lead-up games to the major sports), beginning baseball, advanced baseball, beginning basketball, advanced basketball, beginning hockey, advanced hockey, beginning volleyball, advanced volleyball, beginning soccer, advanced soccer, speedball, fieldball, lacrosse, and cricket.

Individual and Dual Activities: combat activities, handball, beginning archery, advanced archery, archery golf, indoor archery, track and field, beginning swimming, first intermediate swimming, second intermediate swimming, life saving, advanced swimming, golf, beginning tennis, intermediate tennis, advanced tennis, canoeing, fencing, horseback riding, winter sports, ice skating, stunts and contests, games and athletics (a combination of simple team games and track and field), outing activities, recreational games (deck tennis, paddle tennis, badminton, ping pong, etc).

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 tap and clog, advanced tap and clog, rhythmic form and analysis.

Gymnastics: the technique of gymnastics, therapeutic gymnastics, gymnastics, Danish gymnastics.

Physical Education for Special Groups: fundamentals of rhythmic education, physical education for primary grades, physical education for intermediate grades, elements of motor skills, activities for high school and adult recreation.

Men and women may enter any activity course offered by either department of physical education, without earning physical education credit, upon the approval of the head of the department giving the course. If credit is desired, the advance approval of the heads of both departments and the Dean of the Faculty is required.

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.

303. Club and Camp Leadership—3 hours. Organization and activities of girls clubs; correlation with the physical education program of the school; summer program; camp craft. This course must be accompanied by Outing Activities.

304. The Teaching of Basketball—1 hour. No credit for a student whose major is physical education (women). Recitation, 1 period a week; laboratory work, 2 periods a week.

305. Play and Recreational Leadership—3 hours. Play as education. Age needs. Yearly and daily program planning. Playground equipment and sites. This course must be accompanied by Games.

401. The Dance in Education—2 hours. Dancing as an art; fundamentals in rhythmic education; the teaching of dancing in the public school physical education program. This course must be accompanied by two of the following activity courses as arranged: Fundamentals of Rhythmic Education, Folk Dancing, Tap and Clog, and First Dancing.

402. The Teaching of Basketball and Swimming—3 hours. This course must be accompanied by Basketball and Swimming as arranged.

403. The Teaching of Hockey, Soccer, and Tennis—2 hours. This course must be accompanied by Tennis and Hockey or Soccer as arranged.

404. The Teaching of Baseball and of Track and Field—3 hours. This course must be accompanied by Baseball and Track and Field as arranged.

406. Administration of Physical Education—3 hours. Program of instruction and of free-time recreation; equipment, gymnasium, play fields, locker room, swimming pool. Budget; supervisory problems; community relationships.

Science

Emmett J. Cable, Ph.D., Professor of Earth Science and Head of the Department

Louis Begeman, Ph.D., Professor of Physics, Emeritus, Part-time Service

R. L. Abbott, Ph.D., Professor of Biology

Alison E. Aitchison, M.S., Professor of Geography

Robert W. Getchell, Ph.D., Professor of Chemistry

W. H. Kadesch, Ph.D., Professor of Physics

C. W. Lantz, Ph.D., Professor of Biology

H. Earl Rath, Ph.D., Professor of Health Education

O. B. Read, M.A., Professor of Chemistry

Winfield Scott, Ph.D., Professor of Agriculture

S. Freeman Hersey, B.Ph., Associate Professor of Physics, Emeritus, Part-time Service

Marguerite Uttley, Ph.D., Associate Professor of Geography

Martin L. Grant, Ph.D., Assistant Professor of Biology

A major in science must include Science 15, 16, and 490; 25 hours from a field of special interest which may be either biological science, chemistry, or physics; 10 hours from each of the two above mentioned fields which have not been chosen as the field of special interest; and 7 hours from Earth Science 360, 474, and 475. No one of the required minors shall be in the field of science.

A major in earth science must include Science 15 and 16; Earth Science 493; and at least 18 hours of work selected from Earth Science 162, 360, 366, 460, 462, 464, 466, 468, 470, 474, and 475.

A minor in biological science must include Science 15; Biological Science 100 and 102; and at least 5 hours of elective work in biological science or Physical Education 300.

A minor in chemistry consists of Science 16; and 15 hours of work in chemistry.

A minor in physics consists of Science 16; and at least 15 hours of work in physics.

A minor in earth science consists of at least 20 hours of work in earth science except that credit in Science 16 may be used in meeting the requirements of this minor.

A minor in agriculture consists of Science 15; and at least 18 hours of work in agriculture.

General Courses in Science

15. Survey of Biological Sciences—5 hours. No credit for a student who has credit in Biological Science 10. A survey of the basic principles of both plant and animal biology, with special emphasis upon their relationship to man. Recitations, 3 periods a week; laboratory work, 4 periods a week.

16. Survey of Physical Sciences—5 hours. No credit for a student who has credit in Physics 50 (Everyday Physical Science, General Science B). Survey of basic concepts in chemistry, physics, astronomy, climatology, geology, and of other phases of earth science. Recitations, 3 periods a week; laboratory work, 4 periods a week.

Both of these courses must precede other courses in the Department of Science, except Biological Science 10, 12, and 13 and courses in geography, unless otherwise stated.

490. The Teaching of Science—2 hours. Credit also as a course in education for a student whose major is science. Prerequisite: 15 hours in science and Education 460.

I. Biological Science

10. Nature Study—5 hours. No credit for a student who has credit for Science 15. The more conspicuous types of plant and animal life with special emphasis on trees, birds, and insects. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

12. Health Education A—3 hours. No credit for a student who has credit for Biological Science 13 or 300. Personal, community, and school hygiene. Aims and methods of health education with emphasis on child health.

13. Health Education B—2 hours. No credit for a student who has credit for Biological Science 12 or 300. Community and school hygiene with emphasis on personal health and hygiene.

100. Animal Biology—5 hours. Life processes and structure of animals. 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.

108. Invertebrate Zoology—5 hours. Anatomy and physiology of several type-forms in each division of invertebrate animals. Prerequisite: Biological Science 100. Recitations, 3 periods a week; laboratory work, 4 periods a week.

300. Hygiene and Sanitation—5 hours. No credit for a student who has credit for Biological Science 12 or 13. Personal hygiene. Sanitation. School health problems; heating, lighting, ventilation, spread of communicable diseases. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

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

403. Plant Morphology—5 hours. Morphology and evolution of the great groups of plants, with special emphasis upon algae, fungi, mosses, and ferns. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

406. Plant Ecology and Taxonomy—5 hours. Effects of environment upon plant growth and plant distribution. Identification, field recognition, and economic importance of seed plants of our local flora; evolution of flowering plants. Prerequisite: Biological Science 102. Recitations, 3 periods a week; laboratory work, 4 periods a week.

408. Bacteriology—5 hours. Micro-organisms, their classification, morphology, and physiology; their relation to health, sanitation, and food preservation. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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.

2. Chemistry

121. Inorganic Chemistry I—5 hours. The non-metallic elements and their compounds and chemical theory. Recitations, 3 periods a week; laboratory work, 4 periods a week.

122. Inorganic Chemistry II—5 hours. Prerequisite: Chemistry 121. 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. Prerequisite: Chemistry 122. Recitations, 2 periods a week; laboratory work, 6 periods a week.

321. Organic Chemistry—5 hours. Essentials of organic chemistry. Prerequisite: Chemistry 122. Recitations, 3 periods a week; laboratory work, 4 periods a week.

322. Organic Preparations—5 hours. Synthesis of typical compounds representative of organic reactions. Prerequisite: Chemistry 321. Laboratory work, 10 periods a week.

324. Quantitative Analysis I—5 hours. Gravimetric analysis. Prerequisite: Chemistry 124. Laboratory work, 10 periods a week.

326. Quantitative Analysis II—5 hours. Volumetric analysis. Prerequisite: Chemistry 122. Laboratory work, 10 periods a week.

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

421. Water Analysis—3 hours. Methods in analysis of water to determine its suitability for drinking, laundry, and industrial purposes. Prerequisite: Chemistry 124. Laboratory work, 6 periods a week.

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. Prerequisite: 5 hours of credit in quantitative analysis. Laboratory work, 10 periods a week.

424. Physical Chemistry—5 hours. Prerequisite: Chemistry 124.

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

3. Physics

140. Mechanics—5 hours. Prerequisite: high-school physics or Mathematics 100, 101, or 110. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

341. Sound and Light—5 hours. Prerequisite: Physics 140 or equivalent preparation. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

343. Heat, Electricity, and Magnetism—5 hours. Prerequisite: Physics 140. Recitations, 3 periods a week; laboratory work, 4 periods a week.

440. Measurements in Electricity and Magnetism—5 hours. Resistance, electromotive force, current, capacitance, inductance, magnetic field strength, and other electrical and magnetic quantities are accurately measured, and the instruments of measurement studied. Prerequisite: Physics 343 or equivalent preparation. Laboratory work, 10 periods a week.

441. Alternating Currents—5 hours. Includes a study of industrial alternating currents, and of high frequency currents, circuits, and devices used in radio. Prerequisite: Physics 140 and 343. Recitations, 3 periods a week; laboratory work, 4 periods a week.

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

445. Kinetic Theory and Thermodynamics—5 hours. Prerequisite: Physics 343. Recitations, 3 periods a week; laboratory work, 4 periods a week.

4. Earth Science

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.

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

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

460. Mineralogy—5 hours. Descriptive and determinative mineralogy. Recitations, 3 periods a week; laboratory work, 4 periods a week.

461. Meteorology—3 hours. Composition and physics of the air; weather forecasting; weather map making; instruments and their uses.

462. Climatology—2 hours. Comparison of European and American schemes of climatic classification. Description, explanation, distribution, and habitability of climatic regions of the world. Prerequisite: Earth Science 461.

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.

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 occupancy. Prerequisite: entrance credit or college credit in American history.

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

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

472. Commercial and Industrial Geography—5 hours. Commodities of international trade; trade routes of the world; ocean transportation.

474. Dynamic Geology—2 hours. Agencies at work in producing land forms; rocks and rock structures; diastrophism and volcanism.

475. Historical Geology—3 hours. Origin of the earth; its history and development of life.

488. Units in Geography—3 hours. Organization of geographic units for elementary and secondary schools, types of learning activities, techniques of testing.

493. The Teaching of Geography—2 hours. Credit also as a course in education for a student whose major is earth science. Selection and organization of geographic materials for presentation in grades four to nine inclusive. Prerequisite: 5 hours of college work in geography and Education 460, or 5 hours of geography and 15 hours in kindergarten-primary education or elementary education.

5. Agriculture

Only Science 15 is prerequisite to Agriculture 80 and 82.

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.

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

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

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

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

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

480. Soil Fertility—2 hours.

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

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

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

487. **Farm Management**—3 hours.

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

489. **Organization and Administration of General Agriculture**—3 hours. The course of study for the various grades, securing and organizing materials, equipment of the laboratory and library.

494. **Methods in Agriculture**—2 hours. Prerequisite: 10 hours of agriculture and Education 460.

Social Science

M. R. Thompson, Ph.D., Professor of Economics and Head of the Department

Carl H. Erbe, Ph.D., Professor of Government

George C. Robinson, Ph.D., Professor of Government

Sara M. Riggs, B.L., Associate Professor of History, Emeritus, Part-time Service

Marshall R. Beard, Ph.D., Associate Professor of History

Ralph R. Fahrney, Ph.D., Associate Professor of History

Mary B. Hunter, M.A., Associate Professor of Economics

Leland L. Sage, Ph.D., Associate Professor of History

Fred W. Wellborn, Ph.D., Associate Professor of History

Richards C. Osborn, Ph.D., Instructor in Economics

A major in social science must include 10 hours of history (courses 303 and 304 recommended); 10 hours in economics (course 152 required); 5 hours in sociology (course 358 recommended); 10 hours in government (course 132 required); Social Science 490; and 20 hours of additional credit in social science. No one of the required minors may be in the field of social science.

A major in history must include History 14, 303, and 304; Social Science 490; Government 132; Economics 152, and the following additional work: 18 hours of elective work in history which should be distributed over the several fields of history; 5 hours of elective work in government; and 5 hours of electives in economics and sociology (Sociology 358 recommended). No one of the required minors shall be in the field of social science.

Foreign language is recommended for students majoring in history or social science who are not familiar with at least one foreign language and especially for students who plan to do graduate work.

A minor in history consists of 23 hours, of which 20 hours should be chosen from History 13 or 14, 104, 112, 303, 304, and 402.

A minor in government consists of at least 20 hours of work in government.

A minor in economics and sociology consists of at least 20 hours of work in economics and sociology.

General Courses in Social Science

10. *Contemporary Affairs A— $\frac{1}{2}$ hour.

400. *Contemporary Affairs B— $\frac{1}{2}$ hour.

490. **The Teaching of the Social Sciences**—2 hours. Credit also as a course in education for a student whose major is history or social science. Prerequisite: 15 hours of social science and Education 460.

I. History

13. **European Backgrounds of American Civilization**—5 hours.

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

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

104. **English History since 1688**—5 hours.

112. **Modern Europe to 1870**—5 hours.

301. **Medieval Civilization**—5 hours.

303. **Modern Europe since 1870**—5 hours. No credit for a student who has credit in European History since 1815 or European History since 1914.

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.

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

401. **History of Iowa**—2 hours.

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

407. **Economic and Social History of Europe**—5 hours. The transition from feudalism; the new industrialism; the ascendancy of British enterprise; trade rivalry among the powers; the economic aspects of the World War and the post-war period.

*Courses 10 and 400 may be repeated for credit toward graduation.

408. The British Empire—5 hours. An intensive study of British possessions throughout the world since 1815.

410. The Far East—3 hours. Brief course including recent history of China, Japan, and India. Offered 1941-42 and alternate years.

411. 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.

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.

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

416. Latin-American History—3 hours. The development of the Latin-American States and their relations to the United States. Offered 1941-42 and alternate years.

2. Government

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.

134. Parliamentary Law—1 hour.

332. Principles of Political Science—5 hours. 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. Offered 1941-42 and alternate years.

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. Offered 1941-42 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. Offered 1940-41 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.

432. State and Local Government—5 hours. State, county, township, and village government in the United States. Offered 1941-42 and alternate years.

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

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. Offered 1940-41 and alternate years.

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.

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.

3. Economics and Sociology

Economics

152. Principles of Economics I—5 hours.

153. Economic History of the United States—5 hours.

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

354. Money and Banking—5 hours.

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.

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

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

456. **Public Finance**—5 hours. Expenditures, sources, and administration of public funds.

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

462. **Transportation and Public Utilities**—5 hours. Problems of highway, water, rail, and air transportation and of public utilities; valuation, rates, service requirements, regulation.

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

466. **Foreign Trade Problems**—3 hours. International trade; foreign exchange; trade policies and tariffs; international debts. Prerequisite: Economics 152. Offered 1940-41 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.

360. **Social Problems**—2 hours.

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.

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

Teaching

Eva May Luse, Ph.D., Professor of Teaching and Director of Student Teaching

Junetta Heinonen, Ph.D., Associate Professor of Teaching

Cyril L. Jackson, M.A., Associate Professor of Teaching

Marna Peterson, M.A., Associate Professor of Teaching

E. Grace Rait, M.A., Associate Professor of Teaching

Mary C. Anderson, M.A., Assistant Professor of Teaching

Mary P. Caldwell, M.A., Assistant Professor of Teaching

Margaret Divelbess, M.A., Assistant Professor of Teaching

Mabelle M. Gross, M.A., Assistant Professor of Teaching

Rose L. Hanson, M.A., Assistant Professor of Teaching

Dora E. Kearney, M.A., Assistant Professor of Teaching

Dorothy May Koehring, Ph.D., Assistant Professor of Teaching

Olive Paine, Ph.D., Assistant Professor of Teaching

Annabelle Pollock, M.A., Assistant Professor of Teaching

Nathaniel O. Schneider, M.A., Assistant Professor of Teaching

Minnie E. Starr, M.S., Assistant Professor of Teaching

Myrtle M. Stone, M.B.A., Assistant Professor of Teaching

Marguirette May Struble, Ph.D., Assistant Professor of Teaching

Eulalie Turner, M.A., Assistant Professor of Teaching

Alta L. Wilmarth, M.A., Assistant Professor of Teaching

Verna J. Adney, M.A., Instructor in Teaching

Lucile E. Anderson, M.A., Instructor in Teaching

Alice Bakken, M.A., Instructor in Teaching

Esther Boehlje, M.A., Instructor in Teaching

M. Elisebeth Brugger, M.A., Instructor in Teaching

Ethel M. Fitzsimons, M.A., Instructor in Teaching

Merna I. Fletcher, M.A., Instructor in Teaching

Zelwyn Graham, M.A., Instructor in Teaching

Agnes Gullickson, M.A., Instructor in Teaching

Selma B. Hill, M.A., Instructor in Teaching

Marie Hjelle, M.A., Instructor in Teaching

Marguerite R. Hyde, M.A., Instructor in Teaching

Edna Mantor, M.A., Instructor in Teaching

Eleonore Martin, M.A., Instructor in Rural Teaching

Margaret L. Messing, M.Mus., Instructor in Teaching

Ruth J. Michaelson, M.A., Instructor in Teaching

Emma Opfer, M.A., Instructor in Teaching

Erma Belle Plaehn, Ph.D., Instructor in Teaching

M. Mildred Rice, M.A., Instructor in Teaching

Mae E. Ruppel, M.A., Instructor in Teaching

Selma Schumann, M.A., Instructor in Teaching

Ernestine L. Smith, M.S., Instructor in Teaching

Credit used in meeting the requirement in teaching of any curriculum must be earned in courses offered by the Department of Teaching at this institution.

In all work in 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 quarter, 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 6 hours of additional credit in teaching in the senior year unless released from this requirement by the Director of Student Teaching. If the major is elementary education, kindergarten-primary education, or nursery school-kindergarten education, the requirement is 5 hours of additional credit. Critics in training are permitted to register for the last 5 or 6 hours of teaching in the junior year.

The scholarship average required before a student is permitted to register for teaching is the same as that required for graduation. (See page 53). A student must make application for teaching at least one quarter in advance of the time when the work in teaching is to be taken.

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 Director of Student Teaching 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 quarter. For further particulars consult the Director of Student Teaching.

A critic in training may receive a department certificate in critic training on meeting the requirements for a degree and completing six quarters 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 quarters of credit in critic training in meeting the requirements for a department certificate in critic training.

01. Directed Observation of Intermediate Grade Work—Credit required on the curriculum for teachers in grades above the primary. Observation and discussion of illustrative lessons. Lectures. Selection and planning of units of work. Prerequisite: Psychology 15. Three periods a week.

02. Directed Observation of Kindergarten-Primary Work—Credit required 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. Prerequisite: Psychology 15. Three periods a week.

5. Rural Observation and Participation—2 hours. Credit only on the curriculum for teachers in rural schools. Observation of illustrative lessons with discussion and plan writing. Three periods on each of two afternoons a week.

302, 402. *Nursery School Teaching. Prerequisite: Teaching 02, Industrial Arts 21, and 10 hours of psychology and education. The equivalent of five periods of classroom work and two periods of conference a week are required for each 5 hours of credit.

304, 404. *Kindergarten - Primary Teaching. Prerequisite: Teaching 02, and 10 hours of psychology and education. Five periods of classroom work and two periods of conference a week are required for each 5 hours of credit.

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

400. *High School Observation and Participation—2 hours. Prerequisite: Psychology 315. Four periods a week.

408. *High School Teaching. Prerequisite: Teaching 400 and 10 hours of psychology and education. Five periods of classroom work and two periods of conference a week are required for each 6 hours of credit.

470. Critic Training—15 hours. Six quarters of training. Students are selected for this work by the Director of Student Teaching. Prerequisite: two years of college credit.

*Not more than a total of 15 hours of credit in all courses 302 to 408 inclusive may be used in meeting the requirements for graduation on any curriculum.

Extension Service

Extension Service For 1940-41

The extension service includes consultative service, correspondence work, and extension class work.

Consultative 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.

Fees

The fee for extension credit work is \$4 a quarter hour payable in advance. A matriculation fee of \$5 is charged for first enrollment whether for residence or extension credit work.

Refunds

The entire correspondence fee may be refunded if the application is rejected. No refund may be made after three months from the date of registration. Refunds may be made only in case of personal illness certified to by a physician, or registration for the same course in residence. In any case except that of rejection of the application, the refund shall not exceed four-fifths of the fee paid, less \$1.00 for each lesson submitted by the student. When a matriculation fee has been paid in connection with registration for correspondence work, no part of the matriculation fee may be refunded unless the application is rejected.

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 quarter hours of credit by extension work in any one calendar year. No student may earn more than 5 quarter 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 two times as many grade points as hours of credit at this institution or must have maintained as high scholarship standing at another institution.

At least two written lessons for each quarter 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 Bureau of Extension Service.

Courses Approved For Correspondence Work

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

Commercial Education

	Hours
51: Shorthand II.....	5
352: Commercial Correspondence.....	3
353: Advertising.....	3
354: Commercial Law I.....	5
360: Accounting I.....	5
361: Accounting II.....	5
362: Accounting III.....	5
450: Commercial Law II.....	3
452: Secretarial Training II.....	2
453: Retail Merchandising.....	3
454: Salesmanship.....	2
455: Marketing.....	3
494: The Teaching of Typewriting.....	1
495: The Teaching of Shorthand.....	2

Education

	Hours
Psychology	
15: Educational Psychology A.....	5
315: Educational Psychology B.....	5
415: Child Psychology.....	3
416: Psychology of Adolescence.....	3
420: Social Psychology.....	5
Education	
38: The Teaching of Social Studies in the Elementary School.....	2
425: Statistical Methods in Education.....	2
436: Reading and Language in the Elementary School.....	5
455: Educational Tests for the Elementary School.....	3
468: The Junior High School.....	3
475: School Administration.....	5
488: History of Education.....	5

English

	Hours
100: English II.....	5
300: Advanced Exposition.....	5
315: Medieval Literature.....	5
330: The Contemporary Novel.....	5
400: Advanced Story Writing.....	5
435: The English Novel to 1900.....	5
442: American Poets since 1865.....	2
443: American Prose Writers since 1865.....	3
445: American Literature, 1620-1865.....	5
460: History of the English Language.....	5

Home Economics

	Hours
60: Nutrition of Children.....	3

Languages

	Hours
French	
301: Modern French Prose.....	3
302: Short French Plays.....	2
German	
301: Recent German Prose.....	5
302: Goethe's Hermann und Dorothea.....	2
303: Schiller's Dramas.....	5
304: German Drama of the 19th Century.....	5
306: German Composition and Advanced Grammar.....	3
401: German Lyrics and Ballads.....	5
402: Scientific German.....	5
Latin	
104: Cicero's Orations I.....	5
108: Vergil II.....	5
110: Pliny's Letters.....	5
Spanish	
301: Spanish Prose.....	3
302: Spanish Short Stories.....	2
303: Modern Spanish Novel.....	3
304: Spanish and Spanish-American Life.....	2
305: Contemporary Spanish Drama.....	3
307: Readings from Contemporary Spanish Authors.....	2

Mathematics

	Hours
10: Principles of Elementary Mathematics I.....	5
100: Mathematics I, College Algebra.....	5
101: Mathematics II.....	5
102: Mathematics III.....	5
305: Modern Geometry A, Projective Geometry.....	3
306: Modern Geometry B, Advanced Euclidian Geometry.....	2
401: Theoretical Mechanics A.....	3
407: History of Mathematics.....	3
415: Calculus I.....	5
416: Calculus II.....	5

Music

	Hours
308: Harmony I.....	3
317: Harmony II.....	3
318: Harmony III.....	3
403: Counterpoint I.....	2
404: Counterpoint II.....	2
405: Counterpoint III.....	2
435: Music History and Form I.....	2
436: Music History and Form II.....	2

Science

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

Social Science		Hours
490: The Teaching of the Social Sciences		2
History		
14: American History to 1865		5
102: English History to 1688		5
104: English History since 1688		5
112: Modern Europe to 1870		5
303: Modern Europe since 1870		5
304: American History since 1865		5
401: History of Iowa		2
407: Economic and Social History of Europe		5
410: The Far East		3
412: Diplomatic History of the United States		5
Government		
132: American Government	3 or 5	
342: Modern European Governments		5
432: State and Local Government		5
434: Municipal Government		5
442: School Laws of Iowa		3
Economics and Sociology		
152: Principles of Economics I		5
356: Labor Problems		3
358: General Sociology		5
360: Social Problems		2
468: The Family		3
470: Population		3
472: Crime and Poverty		5

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.

The conditions for admission to extension class work are the same as for admission to residence work except that any student may be admitted to an extension class for work without credit.

For each quarter 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.

Commercial Education

	Hours
40: Introduction to Business	5
352: Commercial Correspondence	3
353: Advertising	3
354: Commercial Law I	5
360: Accounting I	5
361: Accounting II	5
362: Accounting III	5
450: Commercial Law II	3
451: Secretarial Training I	3
452: Secretarial Training II	2
454: Salesmanship	2

Education

Psychology	Hours
15: Educational Psychology A	5
315: Educational Psychology B	5
415: Child Psychology	3
416: Psychology of Adolescence	3
420: Social Psychology	5

Education

10: Introduction to Elementary Education	5
25: Reading and Mathematics for Primary Grades	5
30: Language and Literature for Kindergarten-Primary Grades	3
38: The Teaching of Social Studies in the Elementary School	2
45: Elementary School Management	3
305: Introduction to Secondary Education	5
436: Reading and Language in the Elementary School	5
442: Literature for Kindergarten-Primary Children	5
446: Teaching Techniques	2
455: Educational Tests for the Elementary School	3
458: Mental Tests	3
460: Methods and Measurements in the High School	5
464: The Kindergarten-Primary Curriculum	5
470: Elementary School Supervision	5
488: History of Education	5

English

English	Hours
1: English I	5
100: English II	5
110: The Appreciation of Literature	5
300: Advanced Exposition	5
330: The Contemporary Novel	5
425: Victorian Literature	5
435: The English Novel to 1900	5
440: Contemporary English Poets	2
442: American Poets since 1865	2
443: American Prose Writers since 1865	3
445: American Literature, 1620-1865	5
Speech	
110: Public Speaking	5
485: Speech Correction	5

Languages		
French		Hours
101: French I		5
102: French II		5
103: French III		5
German		
101: German I		5
102: German II		5
103: German Stories and Plays		5
Latin		
101: Elementary Latin I		5
102: Elementary Latin II		5
103: Elementary Latin III		5
104: Cicero's Orations I		5
107: Vergil I		5
108: Vergil II		5
Spanish		
101: Spanish I		5
102: Spanish II		5
103: Spanish III		5
Mathematics		Hours
10: Principles of Elementary Mathematics I		5
100: Mathematics I, College Algebra		5
102: Mathematics III		5
305: Modern Geometry A, Projective Geometry		3
306: Modern Geometry B, Advanced Euclidian Geometry		2
307: Mathematics of Finance		3
401: Theoretical Mechanics A		3
406: Statistical Measurement		5
415: Calculus I		5
Science		Hours
Biological Science		
412: Heredity		3
Earth Science		
162: Elements of Geography		5

History		Social Science	Hours
14:	American History to 1865		5
102:	English History to 1688		5
104:	English History since 1688		5
112:	Modern Europe to 1870		5
303:	Modern Europe since 1870		5
304:	American History since 1865		5
401:	History of Iowa		2
407:	Economic and Social History of Europe		5
411:	American Constitutional History		5
412:	Diplomatic History of the United States		5
Government			
132:	American Government		5
340:	Political Parties		3
342:	Modern European Governments		5
432:	State and Local Government		5
434:	Municipal Government		5
438:	World Government and Politics		5
442:	School Laws of Iowa		3
Economics and Sociology			
152:	Principles of Economics I		5
356:	Labor Problems		3
358:	General Sociology		5
360:	Social Problems		2
454:	Corporation Finance and Investments		5
456:	Public Finance		5
468:	The Family		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, 1938-39

A list of graduates from November, 1938, to August, 1939

Four-Year Curricula

DEGREE CURRICULUM ORGANIZED FOR MAJOR SUBJECTS

Major and minor lines of work are indicated

The Degree of Bachelor of Arts November, 1938

Blakely, Miriam C.—History—English, Biological Science, Economics and Sociology	Dumont
Christianson, Tilda A.—History—English	Scarville
Goldsmith, Harlan H.—Mathematics—History, Commercial Education	Clarence
Harms, Mattie—Commercial Education—Earth Science, Economics and Sociology	Allison
Johnson, Evelyn Victoria—English—History, Speech	Kiron
Kester, Betty Louise—Physical Education (Women)—History, Biological Science, Economics and Sociology	Greene
Roberts, Bertha Belle—Elementary Education—English, Biological and Physical Science, History	Collins

March, 1939

Blake, Merton James—Earth Science—History, Commercial Education	Volga City
Calhoun, Lyss S.—English—History, Economics and Sociology, Earth Science	Des Moines
Hansen, Maynard W.—Mathematics—English, Commercial Education	Central City
**Hudson, Bernice C.—French—History, English, Latin, Earth Science	Dougherty
Hutchison, George—Social Science—English, Commercial Education, Economics and Sociology	Lake City
Lounsberry, Clara Louise—English—Biological Science, History, Government	Marshalltown
Mathers, Carol Kenneth—Earth Science—History, Biological Science	Cedar Falls
Mitchell, Mary Elizabeth—Nursery School-Kindergarten Education— English, Psychology	Gooding, Idaho
Nielsen, Valborg Ruth—Elementary Education—Biological and Physical Science, English, History	Cedar Falls

*Graduated with honors.

**Graduated with high honors.

***Graduated with highest honors.

May, 1939

Abram, Elizabeth Ann—Elementary Education—English, History, Earth Science.....	Cedar Falls
Allen, Harvey Ralph—History—Mathematics, French.....	Bloomfield
Anderson, Mabel L.—Mathematics—History, Government, Commercial Education.....	Fort Dodge
Ashley, Marian Louise—English—Speech, Biological Science, French.....	Cedar Falls
Aupperle, Robert N.—School Music (Vocal)—Earth Science, Economics and Sociology.....	Idaho Falls, Idaho
Bacon, Kathlyn—School Music (Instrumental-Piano)—History, English, French.....	Marshalltown
Baker, Marie F.—Applied Music (Piano)—History, Biological Science.....	Waterloo
Bank, Helen Katherine—Elementary Education—Art, English, Biological and Physical Science.....	Detroit, Michigan
**Bassel, Elaine Dorothea—Elementary Education—English, Earth Science, History.....	Waterloo
Beavo, Joseph A.—Commercial Education—Economics and Sociology, English, History.....	Dike
Beeson, M. Lucille—History—Government, English.....	Red Oak
Belthuis, Lyda Carol—Elementary Education—History, Earth Science, English.....	Parkersburg
Bidne, J. Arnold—Commercial Education—History, Mathematics.....	Northwood
Blakely, D. Jean—Commercial Education—History, English.....	Dumont
Blaufuss, Frieda Marie—School Music (Vocal)—English, German.....	Burlington
Block, Jane F.—Commercial Education—English, History.....	Aplington
Boers, Dora E.—Kindergarten-Primary Education—Biological and Physical Science, English, Art.....	Milford
Boshart, Gerald D.—Orchestral and Band Music—Physics, Economics and Sociology.....	Wayland
**Bovee, Eugene Cleveland—Biological Science—History, English.....	Sioux City
**Brindley, Mary Jane—Commercial Education—English, Speech.....	Cedar Falls
Brundage, Wilma Bernita—School Music (Vocal)—Speech, English, French.....	Waterloo
Burger, Helen—Speech—History, Earth Science, English.....	Cedar Falls
Burt, Mrs. Mina J.—History—English, Earth Science.....	Clemons
Carl, Jane—Applied Music (Violin)—Mathematics, English.....	Waterloo
Chase, Calvin L.—History—Government, Commercial Education.....	Greeley
Coffman, Doris Elisabeth—English—History, Speech, Mathematics.....	Richland
Colburn, Mary Elizabeth—English—Mathematics, Commercial Education, Speech.....	Lincoln, Nebraska
Crane, Helen F.—Latin—English, French, History.....	Waterloo
Crowell, Mary Jean—School Music (Vocal)—English, History.....	Mason City
Culbertson, Ruth—Kindergarten-Primary Education—English, History, Biological and Physical Science.....	Rockford, Illinois
Cutler, Elinor Mae—Speech—English, Spanish.....	Nora Springs
Devitt, Genevera Lenore—Elementary Education—Earth Science, History, Mathematics.....	Worthing, South Dakota
Dix, Meredith N.—Chemistry—Biological Science, Physics.....	Cedar Falls

Downing, Roger Lyle—School Music (Vocal)—Mathematics, History.....	Mason City
Duffy, Alleen—English—History, Speech.....	Graettinger
Dycus, James Talcott—School Music (Instrumental-Horn)— Mathematics, Physics.....	Hammond, Indiana
Easter, Howard—School Music (Instrumental-Piano)—Speech, French.....	Cedar Falls
Ellis, Dorothy Hamilton—Elementary Education—Earth Science, English.....	Osage
Everett, Frederick—Social Science—History, Biological Science, Mathematics.....	New Sharon
Everhart, Jean Cecil—School Music (Vocal)—English.....	Charles City
Fennema, Helen—Physical Education (Women)—Biological Science, Economics and Sociology, French.....	Monroe
Fisher, Amasette—Social Science—English, Home Economics, Earth Science, History.....	Waterloo
Frudeger, Janet—Kindergarten-Primary Education—English, Biological and Physical Science, History.....	Burlington
Gaede, Erwin—English—History, German.....	Tripoli
Gentner, Rogena A.—English—Speech, Spanish.....	Greenville, Ohio
Glade, Lois N.—School Music (Vocal)—Mathematics, English, French.....	Hartley
Gmelin, Helen—Physical Education (Women)—English, Biological Science.....	Elkader
Green, Don E.—Mathematics—Physical Education (Men), Physics Biological Science.....	Rolfe
Gronstal, Wilhelmina—Earth Science—English, History.....	Estherville
*Guetschow, Hazel R.—Mathematics—Physical Education (Women), History, Economics and Sociology.....	Paullina
Hamer, Mary E.—School Music (Instrumental-Piano)—History, English.....	Waterloo
Harding, Ruth E.—Commercial Education—English, Earth Science.....	Rockwell City
Harman, Metta I.—English—History, Speech, French.....	Sac City
Harman, Velma M.—History—English, Biological Science.....	Sac City
Hersch, Russell LeRoy—Mathematics—Physical Education (Men), English, Industrial Arts.....	Big Lake, Minnesota
Herwig, Roger W.—Industrial Arts—Mathematics, Agriculture.....	Council Bluffs
Hiller, Kathryn V.—Mathematics—Earth Science, Biological Science, Physics.....	Letts
Hoeffler, Dorothy Phoebe—Physical Education (Women)—English, Biological Science.....	Sioux City
Holst, Miriam Evelyn—Mathematics—English, History, Economics and Sociology.....	Keystone
Horgan, Jean Barbara—English—Speech, History, French.....	Postville
Huser, Louise Buhr—Home Economics—English, Chemistry.....	Schulenburg, Texas
*Isley, Wilma Arline—English—History, Earth Science, Economics and Sociology.....	Cedar Falls
Jensen, LeRoy N.—Mathematics—Industrial Arts, Physical Education (Men).....	Massena
Johnson, Floyd Edwin—Physics—Mathematics, School Music (Band and Orchestra Conducting—Trombone).....	Kiron
Johnson, Leevern Robert—Commercial Education—Physics, Mathematics.....	Earlham

Johnston, Rosemary—Home Economics—French, History, English	Waterloo
Jordan, James R.—Social Science—English, Commercial Education	Waterloo
**Jorgensen, Roy H.—Mathematics and Social Science—History, Government, Economics and Sociology	Eagle Grove
Kane, Allen E.—Industrial Arts—Biological Science, Agriculture	Farmersburg
Kenderdine, Helen Jane—Commercial Education— English, History	Dickens
Kenneally, Anita—Mathematics—History, English	Elkader
**Kirgis, Doris Jean—Mathematics and English— History, Speech	Bouton
Knapp, Walter W.—Social Science—Biological Science, History, Economics and Sociology	Waterloo
Knoche, Helen Margaret—Commercial Education—Mathematics, Government, English	Clarksville
Knowles, June—Physical Education (Women)—English, History, Biological Science	Waterloo
Koos, Catharine S.—Kindergarten-Primary Education—Art, Earth Science, English	Lamotte
Krafft, Leon—School Music (Instrumental-Clarinet)—History, Economics and Sociology	Cedar Falls
Kreussel, Eleanor Rae—English—French, History, Speech	Lamont
Kruse, Mabel Evangeline—School Music (Vocal)— English, German	Holland
Landgraf, Mary Jean—English—Mathematics, History, Speech	Waterloo
Leak, Rose Margaret—School Music (Vocal)— English, French	Williamsport, Indiana
Lenz, William—Applied Music (String Bass)—Government, Economics and Sociology	Dubuque
Liffring, Fredric Charles, Jr.—English—Spanish, Biological Science, History	Waterloo
Lund, Margaret Sue—History—English, French, Earth Science	Rockford, Illinois
Lundquist, Roy W.—History—English, Government, Economics and Sociology, Earth Science	Denison
Mammen, John Henry—History—Mathematics, Physics, German	Palmer
Manning, Genevieve—Elementary Education—Mathematics, Earth Science, Biological and Physical Science	Sac City
Marinan, Dorothy Jane—Commercial Education—English, French	Waterloo
Matthias, Gertrude C.—Kindergarten-Primary Education—English, Earth Science, Biological and Physical Science	Anamosa
McElhinney, Margaret Elinor—Speech—English, Commercial Education	Buckingham
McKellips, Evelyn E.—Kindergarten-Primary Education—English, Biological and Physical Science, Art	Lawton
Miller, Dorothy E.—Physical Education (Women)—Biological Science, English	West Bend
*Miller, F. Earl—Chemistry—Mathematics, Physics	McGregor
Mitze, Clark H.—School Music (Instrumental-Oboe)—Speech, Commercial Education	Cedar Falls
Moen, Marian I.—School Music (Vocal)—English, History	George

Moulton, Evelyn Margaret—English—Speech, History, Biological Science.....	Waverly
Myhr, Derwin C.—Biological Science—Chemistry, Physics.....	Cedar Falls
Neumeier, Florence—School Music (Instrumental-Piano)— Art, English.....	Gladbrook
Newton, Beverly Mae—Art—French, English, History.....	La Porte City
Newton, Charlotte Jeannette—Kindergarten-Primary Education— Art, English, History.....	La Porte City
North, James W.—Agriculture—Mathematics, History, Earth Science.....	Vail
O'Banion, Laura Mae—Elementary Education—Biological and Physical Science, Mathematics, English.....	Le Mars
Odland, Norine—Elementary Education—Earth Science, History, English.....	Clarion
Olsen, Roy—Commercial Education—Mathematics, Economics and Sociology.....	Cedar Falls
Olson, Leo Edward—Social Science—Economics and Sociology, Mathematics, Industrial Arts.....	Ames
*Parman, Lee Ferguson—Mathematics—Biological Science, English.....	Cedar Falls
Patterson, Lucille—Elementary Education—English, Biological and Physical Science, History.....	Des Moines
*Pritchard, Norris Taylor—Social Science—Economics and Sociology, Mathematics, Commercial Education.....	Dike
Rector, Sue Alice—School Music (Vocal)—English, History.....	Odebolt
Reinhart, Margaret E.—School Music (Vocal)—English, Economics and Sociology.....	Ridgeway
Rickey, Mary Elizabeth—Mathematics—English, History, Government.....	Washington
Rohde, F. Virginia—Applied Music (French Horn)— Mathematics, Physics.....	Davenport
Rosenberger, Ruth Olive—School Music (Vocal)— German, English.....	Cedar Falls
Ruggless, Charles B.—English—Economics and Sociology, Spanish, History.....	Prairie City
Runkle, Aleta Mae—School Music (Vocal)—English, History, French.....	Pisgah
Russell, Jeanne Elizabeth—Kindergarten-Primary Education— English, Earth Science, History.....	Winfield
Sadoff, Beulah—Commercial Education—History, English Economics and Sociology.....	Clarion
Sawyer, Eileen Bernice—School Music (Vocal)—English, French.....	Jewell
Scheibe, Elizabeth S.—History—English, French.....	Mason City
Schive, Maxine Amelia—English—French, Mathematics, History.....	Fort Dodge
Schmitt, Mary Margaret—Art—Earth Science, History.....	Alta
*Seybold, Ruth Emma Marie—Mathematics—English, Commercial Education.....	Ackley
**Siglin, Alice Jane—Elementary Education—Earth Science, History, Biological and Physical Science.....	Woodward
Simpson, Laura Mae—Speech—English, Commercial Education.....	Cedar Falls
Siverly, Russell E.—Commercial Education—Biological Science, English.....	Mount Union
Smith, Leona Frances—English—Speech, History.....	Correctionville
*Smock, Hubert Francis—English and French— Spanish, History.....	Keota

Spooner, Catherine Ellen—Commercial Education—English, Economics and Sociology, Speech	Storm Lake
Stringer, Lorraine Kathryn—Commercial Education—Physical Education (Women), English	Rockwell City
Stroup, Ralph K.—Commercial Education—Economics and Sociology, History	Wapello
*Sutz, Norma—Applied Music (Violin)—Art, English	Davenport
Taylor, Ozzo B.—Commercial Education—Mathematics, Economics and Sociology	Alden
Thomas, Dorothy Vaughan—School Music (Vocal)—English	Lime Spring
Thomsen, Marcia Dorthea—English—Speech, Mathematics, History	Laurens
Trottnow, Marcella Emma—Commercial Education—English, Economics and Sociology, German	Dysart
Trottnow, Neva Ellen—Social Science—English, Earth Science, History, Commercial Education	Dysart
Van Skike, Mary Maxine—English—Latin, Speech	Ireton
Walters, Wilma—Commercial Education—English, History, Economics and Sociology	Little Sioux
White, Maxine Jeannette—Elementary Education—History, English, Mathematics	Badger
Wilson, Lloyd Richard—Industrial Arts—Mathematics, Agriculture	Mason City
Witt, Elizabeth Anna—Kindergarten-Primary Education—English, History, Biological and Physical Science	Elkader
Wolito, Dolores—Kindergarten-Primary Education—History, English, Art	Algona
Yoseloff, Joe—Social Science—English, History, Speech	Mason City
August, 1939	
Alton, Everett—Mathematics—Physics, Biological Science, Economics and Sociology	Waterloo
Anderson, Edna Mae—School Music (Vocal)—English	Primghar
Belz, Berniece Jeannette—Kindergarten-Primary Education—Earth Science	Hartley
Boone, L. Llewellyn—History—Government, French, English, Mathematics	Dows
Borghart, Maude L.—Kindergarten-Primary Education—Economics and Sociology	Cedar Rapids
Brewer, Rosemary M.—Elementary Education—Music, English, History	Tripoli
Brown, Mabel L.—Commercial Education—English, History, Spanish	Augusta, Illinois
Button, Helen McCaw—Elementary Education—English, Earth Science, History	Waterloo
Bywater, Marjorie Adell—Art—History, Earth Science	Riceville
Campbell, Claude—School Music (Vocal)—Commercial Education, French	Des Moines
Carr, Constance—Kindergarten-Primary Education—English, Biological and Physical Science, Physical Education and Health	Hardy
Closson, Laura Turner—Nursery School-Kindergarten Education—Music, English, Biological and Physical Science	Waterloo
Closson, Mary Katherine—Social Science—English, French, History	Waterloo
Conklin, Margaret Josephine—Elementary Education—Earth Science, History, English	Nashua
Cosgrove, Mary Jo—Mathematics—History, English	Des Moines

Crowell, Kenneth Clark—History—Commercial Education, Economics and Sociology.....	Cedar Falls
Cummings, Merritt Frank—School Music (Instrumental-Tuba)— Mathematics, Economics and Sociology.....	Maynard
De Butts, Helen—English—Speech, History.....	Melbourne
Dempster, Ruby Henderson—Physical Education (Women)—English, Biological Science.....	Chicago, Illinois
Duffus, Marjorie Elaine—English—Latin, History.....	Eldora
Dunsmoor, Douglas De Witt—Commercial Education—Mathematics, English.....	Fort Dodge
**Farraan, Mildred R.—Kindergarten-Primary Teaching and Critic Training—English, History.....	Cherokee
Ferguson, Max Burton—Physics—Mathematics, Agriculture.....	Oskaloosa
Fisher, M. Annette—Kindergarten-Primary Education—Government, Earth Science.....	Grand Junction
**Fitzgerald, Dorothea Isabel—History—Government, English, Economics and Sociology.....	Boone
Gaffey, Arthur—Biological Science—History, Chemistry.....	Riceville
George, G. Myrle—Elementary Education—Earth Science, History, English.....	Waterloo
Gibbs, Geraldine Patricia—Kindergarten-Primary Education— English, History.....	Lamotte
Gibson, Richard Allison—Social Science—History, Speech, Earth Science, Commercial Education.....	Sioux Rapids
Gillham, Helen Louise—Kindergarten-Primary Education—History, Government.....	Radcliffe
Godfrey, Marcella—Elementary Education—History, Earth Science.....	Le Mars
Griggs, Wendell Walsh—Biological Science—History, Earth Science.....	Cedar Falls
Grodland, Merle Eugene—Industrial Arts—English, Mathematics.....	Clear Lake
Hansen, Mary N.—School Music (Instrumental-Violin)—English, Economics and Sociology.....	Cedar Falls
Hantelmann, Salina D.—Teaching and Critic Training (English)—History.....	Fenton
Hedemann, Robert F.—Social Science—History, Industrial Arts.....	Alpha
Hellestad, Vernice E.—Kindergarten-Primary Education— Music, English, History.....	Unity, Wisconsin
Hellwig, Roland Arthur—Social Science—English, Commercial Education.....	Keystone
Henney, George E.—Mathematics—History, English, Government, Commercial Education.....	Denison
Hon, Helen G.—Kindergarten-Primary Education—English, Psychology.....	Lake Worth, Florida
Howard, Charlotte Marie—Kindergarten-Primary Education—English, History, Biological and Physical Science.....	Marshalltown
Inglesby, Verna Isabelle—Kindergarten-Primary Education— English.....	Ames
Iseminger, Alice Pauline—Commercial Education— Mathematics, History.....	Hudson
Johnson, Shirley V.—Social Science—English, Earth Science, History.....	Missouri Valley
Johnston, Olive L.—Kindergarten-Primary Education— Psychology, English.....	Waterloo
Jones, Louise—Elementary Education—Earth Science, Art, Biological and Physical Science.....	Perry

Karr, Mildred E.—Kindergarten-Primary Education—English, History, Biological and Physical Science.....	West Des Moines
Kelly, Eleanor Joan—English—French, History.....	Waterloo
Knudson, Viola Beatrice—Kindergarten-Primary Education— Biological and Physical Science, History, English.....	Jewell
Kroeger, Helen J.—School Music (Vocal)—English, French.....	Preston
Kuempel, Marguerite C.—Kindergarten-Primary Education— Art, Psychology.....	Guttenberg
Lesch, Marvel Alice—Elementary Education—History, Earth Science, Physical Education and Health.....	Osage
Llewellyn, Mary E.—Elementary Education—Earth Science, History, English.....	Ottumwa
Lynch, Margaret Mary—Elementary Education—History, Home Economics.....	Waucoma
Lynch, Marjorie Mae—English—Speech, History.....	Cedar Falls
Marshall, Grace Fern—Elementary Education—English, History, Earth Science.....	Woolstock
McCormick, Elzora—Elementary Education—Earth Science, English, Mathematics.....	Lucas
McFadden, Alice—Kindergarten-Primary Education—Biological and Physical Science, English, Art.....	New London
McGilvrey, John—Agriculture—Physical Education (Men), Speech.....	Albia
McGinnis, Viola Vivian—Kindergarten-Primary Education—Music, English, Biological and Physical Science.....	Center Point
Miller, Olavia Dorothy—Social Science—English, Earth Science.....	Ayrshire
Morris, Harriet Elisabeth—English—Latin, History.....	Sioux City
Munns, Richard E.—Biological Science—Mathematics, History.....	Kansas City, Kansas
Myers, Dorothy May—Home Economics—Mathematics, Commercial Education.....	Cedar Falls
Orr, Thomas M.—Mathematics and Social Science—English, Government.....	Des Moines
Orton, Kenneth Leroy—Social Science—History, Economics and Sociology, Industrial Arts, Commercial Education.....	Williams
Padovan, Edna—Commercial Education—History, Earth Science.....	Numa
Parrish, G. Dale—History—Mathematics, Commercial Education.....	Ionia
Peak, Louisa Estella—Kindergarten-Primary Education— Psychology, Earth Science.....	Estherville
Peck, Geneva Evelyn—Kindergarten-Primary Education—Biological and Physical Science, English, Art.....	Cherokee
Phillips, Wilbur Wendell—Elementary Education—English, Mathematics, History.....	Deep River
Plank, Harold J.—Mathematics—Physical Education (Men), History.....	Bloomfield
Porteous, Floy—Kindergarten-Primary Education— Psychology.....	Manchester
Quirk, Eleanor Elizabeth—Kindergarten-Primary Education— Earth Science, History, English.....	Wall Lake
Rew, Orrie Kenneth—Industrial Arts—Physical Education (Men), History.....	Lamoni
Rich, Ivan J.—School Music (Vocal)—Economics and Sociology.....	Atlantic
Richards, Benjamin Billings—English—History, French.....	Dubuque
Rutenbeck, Martha Marie—Kindergarten-Primary Education— Earth Science, English.....	Lost Nation

*Rutherford, Eileen—English—School Music (Vocal—H. S.), Speech.....	Greeley
*Scanlon, Jane—Elementary Education—English, Earth Science, Mathematics.....	DeWitt
Schneider, Dorothy Helen—Kindergarten-Primary Education— Psychology, English, History.....	Riverside
Shaw, Lucille Edna—Mathematics—English, Economics and Sociology.....	Boone
Simpson, Lucille Irene—English—History, Speech.....	Iowa Falls
Smith, Elizabeth R.—Kindergarten-Primary Education— Earth Science, Psychology.....	Sioux City
Stanfield, Clinton F.—Commercial Education—History, Economics and Sociology.....	Union
*Steinkamp, Charlotte—English—Speech, History.....	Seymour, Indiana
Stevenson, Lella Bernice—Nursery School-Kindergarten Education— Biological Science.....	Vinton
Stratman, Gertrude—Mathematics—Biological Science.....	Terrill
Strickland, Lorna Hartong—Nursery School-Kindergarten Education— English, Earth Science, Biological and Physical Science.....	Waterloo
Stutsman, Vera Venita—Kindergarten-Primary Education—English, History, Biological and Physical Science.....	Washington
Taylor, Grace Alta—French—English.....	Cedar Falls
Tillson, Alice E.—Nursery School-Kindergarten Education— Music, English, History.....	Cresco
Trefzger, Edwin Lee—Physical Education (Men)—Mathematics, Commercial Education.....	Inglewood, California
Trusler, Robert Francis—History—Industrial Arts, Economics and Sociology.....	South English
Turner, Avon Helen—English—Mathematics, Physical Education (Women), French.....	Belknap
Ure, Samuel—Commercial Education and Social Science— Mathematics, Economics and Sociology.....	Riceville
Utterback, Vena—Kindergarten-Primary Education—Psychology, Economics and Sociology.....	Sigourney
Van Engen, Lela G.—Elementary Education—History, Physical Education and Health, Biological and Physical Science.....	Webster City
Wadell, Grace E.—Kindergarten-Primary Education— Psychology.....	Waterloo
Warnock, Florence T.—Kindergarten-Primary Education— Biological Science.....	Waterloo
Weir, Oren J.—Commercial Education—School Music (Band and Orchestra Conducting—Cornet), Mathematics.....	Cedar Falls
West, Lena Stipp—English—History.....	Waterloo
White, Hubert William—Commercial Education—History, Economics and Sociology.....	Hamburg
Wilharm, Wanda Marie—Earth Science—History, French.....	Waverly
Williams, Edna D.—History—Speech, English.....	Bronson
**Williams, Virginia M.—Commercial Education—Economics and Sociology, History, Mathematics.....	Fort Dodge
Wittmer, Willis P.—School Music (Instrumental-Piano)— Mathematics, History.....	Kalona
Wittrig, Orlin S.—Commercial Education—English, Earth Science.....	Washington
*Wurtzer, Dorothy M.—Commercial Education and Social Science— Mathematics, History, Economics and Sociology.....	Clinton, Missouri
Zintz, Miles Vernon—Elementary Education—English, Mathematics, Earth Science.....	Piano

THE DEGREE OF BACHELOR OF SCIENCE IN SPECIFIED MAJOR LINES

Minor lines of work are indicated

The Degree of Bachelor of Science in Commercial Education

May, 1939

Frankenfield, Marie—History, Economics and Sociology, English.....	Charles City
Helm, Sophus—Earth Science, History, Economics and Sociology..	Ventura
Killam, Norma Jessie—School Music (Band and Orchestra Conducting- Piano), Physical Education (Women).....	Otho
McElhinney, Mary Elizabeth—English, Economics and Sociology	Buckingham
Murray, William Dale—History, Physical Education (Men), Economics and Sociology.....	Lamont
Peterson, Miriam E.—English, Government, Earth Science.....	Madrid
Riley, Hazel Geneva—Mathematics, English.....	Corning
Sadoff, Frances—History, Speech, English.....	Clarion

August, 1939

Carpenter, LaVern E.—English, Mathematics.....	Randalla
Finkenbinder, Ruth E.—English, Economics and Sociology.....	Kent, Illinois
Shepard, Raymond Rea—English, Speech.....	Hastings
Stephens, Ralph A.—Earth Science, Economics and Sociology...	Reinbeck

The Degree of Bachelor of Science in Elementary Education

August, 1939

Laun, Alice Marion—English, History.....	Floyd
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The Degree of Bachelor of Science in Home Economics

November, 1938

Palmquist, Marion E.—Physical Education (Women), English..	Smithland
Sigler, Rosemarie—Physical Education (Women), Art.....	Britt

March, 1939

Akin, Edith Lenore—English, Commercial Education.....	Waterloo
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May, 1939

Betz, Esther M.—History, Biological Science.....	Maynard
Boardman, Ruth Marian—Commercial Education, English.....	Cedar Falls
Breeden, Miriam Elizabeth—Biological Science, English.....	Kellogg
Brown, Marion Virginia—English, Commercial Education.....	Cedar Falls
Dean, Carrol C.—English, Economics and Sociology.....	Waterloo
King, Dorothy Elizabeth—Art, Commercial Education.....	Waterloo
Kuhl, Genevieve—English, Physical Education (Women), Biological Science.....	Ida Grove
Leichtman, Josephine—Commercial Education, Art.....	New Hampton
Thurston, Margaret L.—Speech, Commercial Education.....	Cedar Falls
Wilson, Grace Marguerite—Chemistry, English.....	Grinnell
Wright, Edith E.—English.....	Osage

August, 1939

Klingaman, Alice G.—English.....	La Verne, California
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The Degree of Bachelor of Science in Industrial Arts**May, 1939**

Benz, LaVerne F.—Mathematics, Agriculture.....	Randalia
Chatfield, Harold C.—Speech, Agriculture.....	Winterset
Healy, John Albert—Mathematics, Physical Education (Men).....	Mount Auburn
Kruse, Vernon William—Mathematics, Agriculture.....	Chapin

August, 1939

Allen, Ray Alfred—Agriculture.....	Van Wert
Beckley, Jay Fay—Agriculture, Economics and Sociology.....	Paullina
Fay, David S.—Mathematics, Agriculture.....	Troy Mills
Fields, Nathan A.—Agriculture.....	Boone
Hahn, Victor William—History.....	Ottumwa
McBurney, Cecil Clair—Agriculture.....	New Sharon

The Degree of Bachelor of Science in Opportunity Room Education**August, 1939**

Rafferty, Loretta Ann—English, Speech.....	Clermont
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The Degree of Bachelor of Science in Physical Education**November, 1938**

Buche, Jean Ann—English, Biological Science.....	Mitchell, South Dakota
Bute, Gordon T.—Industrial Arts, History.....	Wahpeton, North Dakota
Stainbrook, Gordon Walz—Mathematics, Commercial Education, Biological Science.....	Waterloo
Weatherwax, Kenneth C.—Mathematics, Physics.....	Ocheyedan

March, 1939

Rider, Carleton A.—Industrial Arts, Biological Science, Agriculture.....	Gilmore City
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May, 1939

Blanchard, Dorothy Mildred Verlee—English, Biological Science.....	Wapello
Brower, Everett G.—Biological Science, Industrial Arts, Agriculture.....	Lake View
Cranny, Cyril Patrick—Industrial Arts, Agriculture, Biological Science, Earth Science.....	Cedar Falls
Dayhoff, Charles S.—Mathematics, Physics.....	Kirkman
Edmonds, Elizabeth Anne—Biological Science, English.....	Miami, Missouri
Hughes, Bernard—Biological Science, Industrial Arts.....	Lime Spring
Missildine, Hubert L.—Mathematics, Physics, Biological Science.....	Dumont
Rehn, Evelyn Elise—Biological Science, Mathematics.....	Miles City, Montana
Schlesselman, Ruth E.—English, Biological Science.....	Laurel
Schley, Harry A.—Mathematics, Biological Science.....	Cedar Rapids
Vaughn, Merle L.—Agriculture, Biological Science.....	Benton
Wainwright, Wanda A.—Biological Science, History.....	Deep River

August, 1939

Breitbach, Louis Frank—History, Agriculture, Industrial Arts.....	Masonville
Elliott, Marjorie I.—Speech, Biological Science.....	Marshalltown
Harms, Paul C.—History, Economics and Sociology.....	Allison
Ingraham, Ivan Glen—Agriculture, Mathematics.....	Deep River
Luvaas, Clarence Burton—Biological Science, Economics and Sociology.....	Denison
Magovich, John—Industrial Arts, Biological Science, History.....	Buhl, Minnesota
Snell, Leland K.—Biological Science, Industrial Arts, Agriculture.....	Plymouth

Two-Year Curricula**Curriculum for Teachers in Grades above the Primary****November, 1938**

Clausen, Anna.....	Dexter
Fliss, Verlie B.....	Jesup
Kenyon, Willma Grace.....	Garner
Shellabarger, Wilma Verlee.....	Letts
White, Ruby Adaline.....	Cedar Falls

March, 1939

Carey, J. Pat.....	Baker, Montana
Gran, Inga Gunhild.....	Spring Grove, Minnesota
Richards, Marie.....	Clarksville
Street, Edith M.....	Grand River
Varlamos, Genevieve.....	Denison
Welch, Lucille.....	Afton

May, 1939

Bargmann, Lillian E.	Rodman
Bliss, Alice Estelle	Central City
Brandrup, Lila	Webster City
Bredbenner, Novella Dorothy	Klemme
Bro, Ingward C.	Kimballton
Chadwick, Leone Faye	Sibley
Challe, Evelyn H.	Jewell
Chilcote, Harriett Ann	Iowa Falls
Claussen, Pearl E.	Ricketts
Corderman, Eunice Jane	Waterloo
Crees, Henrietta	Atalissa
Daggett, Dorothy D.	Sanborn
Dodd, Helen A.	New Hartford
Drown, Jane L.	Curlew
Edgar, Freda	Massena
Elliott, Jean E.	New Hartford
Evans, Wilma Clarice	Casey
Fandel, Dorothea I.	Rodman
Folkerts, Marjorie Ann	Allison
French, Evangeline	Prairie City
George, Doris J.	Springville
Gildemeister, Elaine W.	Hubbard
Goodenow, Marian Elaine	Battle Creek
Gouge, Harriet M.	Corwith
Haney, Mabel Ellen	Perry
Hanisch, Evelyn M.	Grundy Center
Hanlon, Eleanor M.	Stanwood
Hauser, Lola Mae	Van Horne
Hiersche, Jeanette Mourene	Early
Hill, Eleanor	Maquoketa
Jones, E. Beatrice	Williamsburg
Knock, Edna V.	Holland
Knock, Leona M.	Holland
Larsen, Pauline H.	Cedar Falls
Lee, Edna M.	Morning Sun
Lindaman, Clara J.	Ackley
Llewelyn, Rosemary	Bloomfield
Lund, Dagmar	Hampton
McLeod, Maxine	Hawarden
Mickey, Martha Jane	Clinton
Mihalovich, Teresa	Rathbun
Miller, Alice	Grundy Center
Moore, Amelia Faye	Wadena
Muller, Wilma Alice	Ackley
Mumby, Vivian Elizabeth	Churdan
O'Laughlin, Ann	Washington
Olsen, Vernice Lucile	Kimballton
Olson, Vernal Genevieve	Jewell
Petersen, Selma	Ottosen
Pieper, Verda Marie	Vail
Riedinger, Merigene Elaine	Maquoketa
Royer, Carolyn	Woodbine
Rude, Margaret M.	Mapleton
Sawtelle, Quentin Lyle	Latimer
Sawtelle, Warren E.	Latimer

Schneider, Eleanor	Stanwood
Schow, Ruth	Garner
Schowalter, Mary Jane	Keokuk
Seefeld, Esther F.	Algona
Simonson, Agnes Elaine	Rolfe
Stouffer, Pauline R.	Buckingham
Taylor, K. Lorraine	Steamboat Rock
Thomas, Mabel Jean	Beaman
Tinnermeier, Helen Dorthea	Newton
Ullerich, Adella Marie	Van Horne
Underwood, Dorothy Jane	Albion
Weber, Tracy Florence	Charles City

August, 1939

Anderson, Martha C.	Ellsworth
Arnold, Evonne L.	Magnolia
Bekemeier, Elda	Hubbard
Bethel, Hollie B.	Crescent
Bishop, Dorothy M.	Rowley
Braland, Opal Alpha	Ellsworth
Budlong, Betty	Titonka
Clanton, Helen Ruth	Marathon
Dolmage, Eunice L.	Victor
Elvidge, Kathryn M.	Burt
Froning, Veloye Ardell	Chapin
Galagan, Catherine C.	Rockwell
Gordon, Ellen Louise	Glidden
Hedemann, Mrs. Gladys Curtis	Lucas
Hilmer, Phoebe Margaret	Keokuk
Johnson, Hada Marie	Dexter
Johnson, Ruth Charlotte	Havelock
Kennedy, Marian C.	Manchester
Kolthoff, Margaret G.	New Hampton
Kurtz, Irma	Dows
Lanning, Dorothea F.	Toddville
Licht, Irene C.	Lowden
Loy, Virginia C.	Dunlap
Luther, Doris Leona	Madrid
Matthias, Helene B.	Anamosa
Mowbray, Isabelle F.	Waterloo
Myrick, Nelda Grace	Estherville
Neville, Rosemary	Anamosa
Nielsen, Orval George	Elk Horn
Potter, Virgene Louise	Coon Rapids
Rasmuson, N. Marie	Rockwell City
Ruymann, Gertrude	Davenport
Stageman, Ruth E.	Neola
Thompson, Alice	Shell Rock
Thornblade, Wilma B.	Albion
Warnock, Muriel	Coggon
Whitten, Billie V.	Rowan
Willard, Rosella Ruth	Albion
Wood, Lucylle	Newton
Wulf, Ruth B.	Davenport

Curriculum for Teachers in Kindergarten-Primary Grades

November, 1938

Baxter, Loretta Victoria	Stuart
McMullin, G. Lucille	Casey
Reeve, Gladys Lucille	Cedar Falls

March, 1939

Junkin, Janice Etta	Earlham
Knudtson, Wanda Ruth	Bode
Pueggel, Agnes Louise	Clear Lake

May, 1939

Blesie, Dolores Mae	Renwick
Blumgren, Josephine A.	Odebolt
Boeckemeier, Kathleen Louise	Dumont
Bowman, Melba K.	Victor
Briggs, Eleanor J.	Sutherland
Cakerice, Gwendolyn R.	Eldora
Christ, Muriel Irene	Lake Park
Clancy, Grace M.	Hardy
Daugaard, Phyllis Pauline	Onawa
Decker, Grace Irene	Crookston, Minnesota
De Haan, Ruth	Prairie City
Denker, Jean Florence	Lester
Dentel, Ruth Rebecca	Faulkner
Dick, Martha Jane	Wyoming
Ellerbrock, Mary Elaine	Yetter
Evans, Alvina Mae	Linn Grove
Fisher, Mildred Hope	Renwick
Gaskell, Helene M.	Belle Plaine
Goodrich, Mariann	Council Bluffs
Grell, Viola M.	Ventura
Grum, Myrtle M.	Sigourney
Heron, B'Ann	Galena, Illinois
Holland, Madonna	Decorah
Humphrey, Mary Margaret	North English
Jennings, Mary Louise	Marshalltown
Johnson, L. Arlene	Cresco
Johnson, Marie Genevieve	Mount Pleasant
Johnston, Mary Beulah	Birmingham
Junkermeier, Neoma F.	Ledyard
Kail, Margaret A.	Spencer
Kirkpatrick, Lois Pauline	Keota
Kline, Margaret	Montezuma
Laipple, Zelma May	Hampton
Leinbaugh, Edythe M.	Clarence
Macy, Aletha Wilkey	Lynnville
Marsh, Harriet E.	Greene
Meyer, Ruth Charlotte	Eldridge
Miller, Adeline	Manning
Morse, Gayle Roberta	Hardy
Myers, Eleanor Sue	Colo
Neill, Fan	Council Bluffs
Nichols, Dorothy LoLeta	Clarion
Oliver, Kathleen	Lester

Oppedal, Elaine Elizabeth	Story City
Parker, Eileen	Russell
Paulsen, Elsie Mae	Peterson
Peterson, Mildred M.	Lawton
Piotter, Erna R.	Manawa, Wisconsin
Porter, Clara Irene	Iowa Falls
Porter, Wanda Neoma	Cumberland
Pratt, Cecile May	Boone
Putnam, Mildred E.	Montezuma
Ralston, Grace L.	Earlham
Rehder, Arlene Georgeann	Gladbrook
Richardson, Juanita Avon	Clarion
Risher, Maxine	Lynnville
Schaefer, Mabryn Louise	Lake Park
Skovgaard, Violet T.	Ringsted
Smith, Lucille C.	Auburn
Staub, Evelyn Mae	Wever
Strand, Mildred Eleanor	Primghar
Thomsen, Catherine M.	Laurens
Weaver, Beth Louise	Hawarden
Webbeking, Marlys	Waterloo
Welch, Eileen F.	Afton
Wood, Marjorie E.	Prescott
Wright, Alice Dale	Stanhope
Zeiger, Marjorie	Garner

August, 1939

Anderson, Ruth Marjorie	Cedar Falls
Axmear, Wilma S.	Cambridge
Bednar, M. Maxine	Manly
Bickel, Maxine Virginia	Cromwell
Bjornson, Alice Irene	Goldfield
Bolton, Rebecca Laurine	Estherville
Chamberlin, Ann A.	Dunlap
Clapsaddle, Lois C.	Conrad
Dailey, Beth Louise	Cedar Falls
Foster, Maxine	Cedar Falls
Gallagher, Madelyn Mae	Vail
Grimm, Etola D.	West Des Moines
Hartnell, Mary Irene	Stacyville
Hemer, Virginia L.	Arthur
Hemmes, Wilma Mae	Latimer
Hubbard, Mary Katherine	Sioux City
Iverson, Inez V.	Jewell
Kaiser, Viola R.	Aurora
Leinbaugh, Ruth Ione	Clarence
Mark, Lila Gay	Casey
Mather, Marjorie L.	Laurens
Meylink, M. Bernice	Hull
Miller, N. Jeanne	Conway
Missman, Virginia Irene	Britt
Mitchell, Lucile	Eldora
Nielsen, Lilly Mary	Racine, Wisconsin
Nyberg, Dolores L.	Postville
Porter, Ruth Adeline	Fort Dodge
Risher, Vesta E.	Mystic

Rose, Dorothy H.	Manly
Setchell, Dofothy Jeanne	Freeport, Illinois
Smith, Mary Elizabeth	Alden
Watrous, Neva Naomi	Coon Rapids
Wolf, Olive L.	Hospers

Number Receiving Degrees and Diplomas

NOVEMBER, 1938, TO AUGUST, 1939

	Men	Women	Total
1. The degree of bachelor of arts	82	187	269
2. Degree curricula in specified major lines			
a. The degree of bachelor of science in commercial education	5	7	12
b. The degree of bachelor of science in elementary education		1	1
c. The degree of bachelor of science in home economics		15	15
d. The degree of bachelor of science in industrial arts	10		10
e. The degree of bachelor of science in opportunity room education		1	1
f. The degree of bachelor of science in physical education	17	7	24
3. Two-year diplomas			
a. For teachers in the grades above the primary	5	113	118
b. For teachers in the kindergarten-primary grades		108	108
Total number of graduates	119	439	558

Summary of Attendance

JUNE 1, 1938, TO MAY 29, 1939

Classes of Students

	Men	Women	Total
Students with baccalaureate degrees on degree curricula	33	36	74
Undergraduate students on degree curricula			
Seniors	180	339	519
Juniors	157	493	650
Sophomores	180	170	350
Freshmen	313	205	518
Total on degree curricula	830	1207	2037
Students on two-year curricula			
Second-year students			
Curriculum for teachers in kindergarten-primary grades		195	195
Curriculum for teachers in grades above the primary	9	256	265
First-year students			
Curriculum for teachers in kindergarten-primary grades		304	304
Curriculum for teachers in grades above the primary	12	309	321
Total on two-year curricula	21	1064	1085
Students on one-year curriculum for teachers in rural schools	7	103	110
Students registered for twelve weeks of normal training and not on a curriculum	19	231	250
Special music students not on a curriculum	4	24	28
Special music students past 16 years of age and not high school graduates	5	21	26
Visitors	2	29	31
Special students		4	4
Total in residence	926	2719	3645
Students in extension work			
Correspondence work	39	183	222
Extension class work		6	6
Total in extension work	39	189	228
Grand total exclusive of duplicates and of pupils in the training school	945	2807	3752

Attendance By Quarters

	Men	Women	Total
Summer quarter	246	1479	1725
Fall quarter	661	1265	1926
Winter quarter	674	1222	1896
Spring quarter	610	1170	1780
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Total for fall, winter, and spring quarters exclusive of duplicates	764	1438	2202
Total in residence exclusive of duplicates and of pupils in the training school	926	2719	3645

Pupils in the Training School and in Affiliated Schools

	Boys	Girls	Total
Campus training school	191	229	420
Affiliated schools in classes taught by students			
Hudson			
Primary grades	25	33	58
Intermediate and upper grades	59	44	103
High school	51	34	85
Waterloo, East			
Primary grades	30	44	74
Intermediate grades	73	44	117
Junior high school	122	151	273
Waterloo, West			
Primary grades	48	34	82
Intermediate grades	89	89	178
Junior high school	63	78	141
Rural demonstration school	7	3	10
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Total in training schools	758	783	1541

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Iowa State Teachers College

Cedar Falls, Iowa

APPLICATION FOR ADMISSION

Date _____ 194 _____

1. Print name in full _____ (Mr., Miss, Mrs.)
Last First Middle Please check
2. Home address: Street and Number or R.F.D. _____
City _____ State _____
In what county do you live? _____
3. Name of parent or guardian _____
Address of parent or guardian _____
4. Date of birth _____
5. Graduate of what high school _____ Year _____
6. Other high schools attended _____
7. Have you asked the principal of each high school attended to send us a certificate of high school credits? _____
If you have attended a high school outside of Iowa please write us for a blank on which to record high school credits.
8. What other colleges have you attended? _____
9. Have you asked each college attended to send us an official transcript of your record? _____
10. When do you wish to enter? _____
11. What course do you plan to take? _____

