

4-1-1954

Bulletin 206 - 1954-1955

Eastern Illinois University

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EASTERN ILLINOIS STATE COLLEGE

1954-55 BULLETIN

A. TEACHING CURRICULA

I. M.S. in Ed.

II. B.S. in Ed.

Elementary Education

Secondary Education

Art

Botany

Business

Chemistry

English

Languages

Geography

Home Economics

Industrial Arts

Mathematics

Music

Physical Education

Physics

Social Science

Speech

B. TWO-YEAR CURRICULA

I. General

II. Pre-Professional



JAN 3 '55

DIRECTIONS FOR CORRESPONDENCE

In order to avoid delay in answering inquiries, we are listing below the names of the administrative officers, together with the division of the college work which comes under their supervision.

General Policy of the College

ROBERT GUY BUZZARD, President

Admission of Students, Transcripts, and Requests for Catalogues

BLANCHE CLAIRE THOMAS, Registrar

Academic Work of Students and Advanced Standing

HOBART FRANKLIN HELLER, Dean of the College

Housing, Student Employment, and Personal Problems

RUDOLPH DONALD ANFINSON, Dean of Men

ELIZABETH KNIGHT LAWSON, Dean of Women

Veterans Services

RUDOLPH DONALD ANFINSON, Director

Audio-Visual Center

ARTHUR FRANCIS BYRNES, Director

Pemberton Hall

MARYANN EHRHARDT, Social Director

Lincoln Hall

EDITH CARDI, Social Director

Douglas Hall

DONALD A. KLUGE, Social Director

Payment of Fees

RAYMOND ROSCO GREGG, Business Manager

Teacher Training

HANS C. OLSEN, Director of Teacher Training

Bureau of Teacher Placement

WILLIAM H. ZEIGEL, Director

Student Health

DR. LAURO MONTEMAYOR, College Physician

MARY ELLEN THOMPSON, College Nurse

Textbook Library

HENRY JOHNSON ARNOLD, Manager

Extension Courses

BRYAN HEISE, Director of Extension

Public Relations and Alumni Services

STANLEY M. ELAM

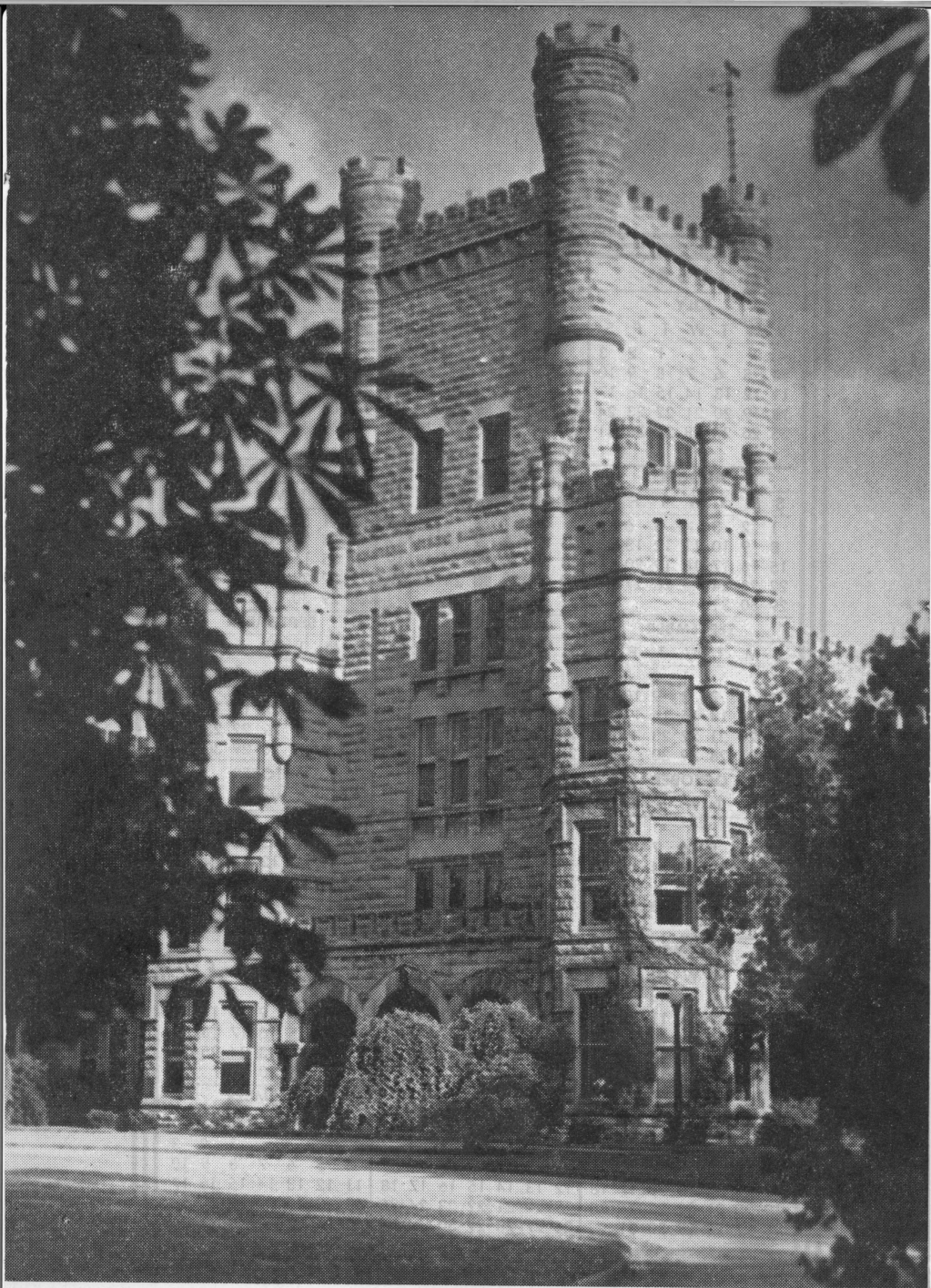
Food Services

RUTH H. GAERTNER, Director

Information Regarding Summer Session

BLANCHE CLAIRE THOMAS, Registrar, or

HOBART FRANKLIN HELLER, Dean



**Old Main, first building erected
on the Eastern Campus, 1899**

1954**JULY**

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NOVEMBER

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DECEMBER

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STATE OF ILLINOIS

WILLIAM G. STRATTON, Governor

EASTERN ILLINOIS STATE COLLEGE BULLETIN

No. 206

April 1, 1954



55th YEAR

ACADEMIC RECORD 1953-54 SESSIONS

ANNOUNCEMENTS FOR 1954-55 SESSIONS

Eastern Illinois State College Bulletin, issued quarterly, by the Eastern Illinois State College, Charleston, Illinois. Entered March 5, 1902, as second-class matter, at the post office at Charleston, Illinois. Act of Congress, August 24, 1912.

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COLLEGE CALENDAR, 1954-55

Fall Quarter, 1954

Tuesday, September 7 ----- Faculty Day
Wednesday, September 8 thru
Friday, September 10 ----- Orientation for Freshmen
and Transfer Students
Saturday, September 11 ----- Registration
Monday, September 13 ----- Classes begin
Friday, October 8 ----- Eastern Division Meeting, IEA
Friday, October 29 ----- Homecoming begins, 12 noon
Saturday, October 30 ----- Homecoming
Wednesday, November 24 ----- Thanksgiving recess, 12 noon
Monday, November 29 ----- Classes resume, 1 p.m.
Friday, December 3 ----- Fall Quarter ends

Winter Quarter, 1954-55

Monday, December 6 ----- Registration
Friday, December 17 ----- Christmas recess, 5 p.m.
Monday, January 3 ----- Classes resume, 8 a.m.
Wednesday, March 9 ----- Winter Quarter ends

Spring Quarter, 1955

Monday, March 14 ----- Registration
Thursday, April 7 ----- Easter recess, 12 noon
Monday, April 11 ----- Classes resume, 1 p.m.
Sunday, May 29 ----- Baccalaureate, 10:30 a.m.
Sunday, May 29 ----- Commencement, 3:00 p.m.
Monday, May 30 ----- Memorial Day, holiday
Friday, June 3 ----- Spring Quarter ends

Summer Term, 1955

Monday, June 13 ----- Registration
Tuesday, June 14 ----- Classes begin
Monday, July 4 ----- Independence Day, holiday
Thursday, August 4 ----- Commencement
Friday, August 5 ----- Summer Term Ends

THE TEACHERS COLLEGE BOARD

EX OFFICIO MEMBERS

DR. VERNON L. NICKELL

Superintendent of Public Instruction, Springfield

MR. MORTON H. HOLLINGSWORTH

Director of Finance, Springfield

ALEXANDER SUMMERS, Mattoon	1953-55
CHAUNCEY B. WATSON, SR., DeKalb	1953-55
WALTER FREDENHAGEN, Naperville	1953-55
CARL DUNBAR, Macomb	1953-57
CLARENCE ROPP, Normal	1953-57
DR. WILLIAM C. REAVIS, Chicago	1953-57
ROYAL A. STIPES, JR., Champaign	1953-59
MRS. HARRIET LOWDEN MADLENER, Oregon	1953-59
LEWIS M. WALKER, Gilman	1953-59

DR. RICHARD G. BROWNE, Executive Officer, Springfield

CHARLES G. LANPHIER, Secretary, Springfield

The Teachers College Board was "created to operate, manage, control and maintain the Illinois State Normal University at Normal, the Northern Illinois State Teachers College at DeKalb, the Eastern Illinois State College at Charleston, and the Western Illinois State College at Macomb" by House Bill Number 992, 67th General Assembly, State of Illinois, 1951.

ADMINISTRATIVE OFFICE PERSONNEL

1953-54

Office of the President

ROBERT GUY BUZZARD, Ph.D. ----- President
NORMA JEAN WINKLEBLACK ----- Secretary

Office of the Dean and Registrar

HOBART FRANKLIN HELLER, Ph.D. ----- Dean
§JOAN CATHARINE MADDEN, B.S. in Ed. ----- Secretary
†BLANCHE CLAIRE THOMAS ----- Registrar
HELEN JOSEPHINE WHALEN ----- Clerk-Stenographer
§JOY CARLISLE ----- Clerk-Stenographer
JEAN STORY ----- Clerk-Typist
LOIS PINKARD ----- Clerk-Stenographer
NED STUART SCHROM, Ed.D. ----- Director of Admissions

Office of the Dean of Women

ELIZABETH KNIGHT LAWSON, Ph.D. ----- Dean of Women
FLORENCE LEONE FAIR, A.B. ----- Clerk-Stenographer

Office of the Dean of Men and Veterans Services

RUDOLPH DONALD ANFINSON, Ph.D. ----- Dean of Men
MARGARET J. McGURTY ----- Clerk-Stenographer
MARY ANN VOGEL ----- Clerk-Stenographer

Office of the Director of Placement

WILLIAM HENRY ZEIGEL, Ph.D. --- Director of Placement Bureau
DOROTHY MAE BECK ----- Clerk-Stenographer
DONNA ELLIS ----- Clerk-Typist

Office of the Director of Teacher Training

HANS CHRISTIAN OLSEN, Ph.D. --- Director of Teacher Training
ROGENE BORDON, M.S. in Ed. ----- Clerk-Typist
THOMAS ARTHUR PHILLIPS, Ed.D. --- Principal of High School
HELEN MARIE MOLTZ ----- Clerk-Typist
WILLIAM B. KNOX, Ph.D. ----- Principal of Elementary School
JANET OZIER ----- Clerk-Stenographer

Office of Extension

BRYAN HEISE, Ph.D. ----- Director of Extension

Office of Director of Student Activities

WILLIAM JOSEPH CRANE, Ph.D. -- Director of Student Activities

Office of Director of Audio-Visual Center

ARTHUR FRANCIS BYRNES, Ed.D. ----- Director of
Audio-Visual Center
MARY MARTHA RUNNELS ----- Clerk-Typist

Office of Food Services

RUTH H. GAERTNER, M.S. ----- Director
DORIS MAE DOWNS, B.S. in Ed. ----- Supervisor
CAROL EUNICE PETERSON, B.S.I.Mgt. ----- Supervisor

§ On Leave, 1953-54.

† Disability leave.

Office of Health Service

LAURO R. MONTEMAYOR, M.D. ----- College Physician
MARY ELLEN THOMPSON, R.N. ----- College Nurse
†MARY JUNE BLAND, R.N. ----- College Junior Nurse
EMMA IRENE FREEMAN, R.N., (Substitute) ----- College Nurse
EVELYN LUCILE ROBY ----- Clerk-Typist

Office of Director of Public Relations and Alumni Services

STANLEY MUNSON ELAM, A.M. ----- Director
KENNETH EUGENE HESLER, B.S. in Ed. ----- Assistant Director
MARCIA JEAN LEVITT ----- Clerk-Stenographer

Business Office

RAYMOND ROSCO GREGG, A.M. ----- Business Manager
VIOLET BIRD TAYLOR, B.A. ----- Office Supervisor
DOROTHY VIRGINIA DAVIS ----- Secretary
PATRICIA FLORINA BARCHÉ ----- Stenographer
JEANIE WALLACE ----- Clerk-Stenographer
CLEO BERNICE THOMPSON ----- Bookkeeping Machine Operator
PATRICIA L. RICHARDSON ----- Clerk-Typist
ANN SIVERLY ----- Clerk-Typist

Office of Textbook Library

HENRY JOHNSON ARNOLD, A.M. -- Manager of Textbook Library
FLORENCE EILEEN KELLY ----- Clerk-Typist

Douglas Hall

DONALD ARTHUR KLUGE, M.A. ----- Social Director
JEANETTE R. KLUGE, A.B. ----- Assistant Social Director
CAROL EUNICE PETERSON, B.S.I.Mgt. ----- Supervisor of Foods

Lincoln Hall

EDITH GLORIA CARDI, M.S. in Ed. ----- Social Director
CAROL EUNICE PETERSON, B.S.I.Mgt. ----- Supervisor of Foods

Pemberton Hall

MARYANN EHRHARDT, M.S. in Ed. ----- Social Director
DORIS MAE DOWNS, B.S. in Ed. ----- Supervisor of Foods

Library

ROSCOE FREDERICK SCHAUPP, Ph.D. ----- Librarian
MILDRED MILLER REA ----- Clerk-Typist
LEYLA JANE PECK ----- Clerk-Typist

Buildings and Grounds

GERALD TYSON CRAVEY, B.S. in M.E. ----- Superintendent of
Plant Maintenance
ROBERT L. GONDERMAN, M.S. ----- Landscape Architect
CAMILLE F. MONIER ----- Grounds Foreman
EDGAR BERT RENNELS ----- Head Janitor
DON METCALF ----- Chief Plant Operating Engineer

† On leave, 1953-54.

**EASTERN ILLINOIS STATE COLLEGE
CHARLESTON**

FACULTY, 1953-54

Asterisk (*) indicates Head of Department
Date of joining staff in parentheses.

ADMINISTRATION

- ROBERT GUY BUZZARD, Ph.D. ----- *President*
Diploma, Illinois State Normal University, 1914; S.B., 1916,
S.M., The University of Chicago, 1917; Ph.D., Clark Uni-
versity, 1925; A.M., University of Illinois, 1938. (1933)
- HOBART FRANKLIN HELLER, Ph.D. ----- *Dean*
B.S., Gettysburg College, 1924; A.M., 1931, Ph.D., Columbia
University, 1940. (1931)
- ELIZABETH KNIGHT LAWSON, Ph.D. ---- *Dean of Women*
B.A., 1927, M.A., Bucknell University, 1935; Ph.D., New
York University, 1939. (1939)
- RUDOLPH DONALD ANFINSON, Ph.D. ----- *Dean of Men
and Director Veterans Services*
B.Ed., State Teachers College, St. Cloud, Minnesota, 1932;
M.A., 1933, Ph.D., University of Minnesota, 1939; Graduate
study, Leland Stanford University, 1950-51. (1940)
- WILLIAM JOSEPH CRANE, Ph.D. ----- *Director of
Student Activities*
B.A., University of Wisconsin, 1942; M.A., University of
Colorado, 1950; Ph.D., Yale University, 1952. (1952)
- STANLEY MUNSON ELAM, A.M. *Director of Public Relations
and Alumni Services*
B.Ed., Eastern Illinois State Teachers College, 1938; A.M.,
University of Illinois, 1942; Graduate study, University of
Illinois, summers, 1950, 1951, 1952, and year 1951-52. (1946)
- KENNETH EUGENE HESLER, B.S. in Ed. *Assistant Director
of Public Relations and Alumni Services*
B.S. in Ed., Eastern Illinois State College, 1951. (1951)
- WILLIAM HENRY ZEIGEL, Ph.D. ----- *Director of
Placement Bureau*
B.S., Kirksville State Teachers College, 1925; A.M., 1926,
Ph.D., University of Missouri, 1930. (1937)

- NED STUART SCHROM, Ed.D. ----- *Director of Admissions*
 B.S. in Ed., 1948, M.Ed., 1949, Ed.D., University of Missouri,
 1953. (1953)
- BLANCHE CLAIRE THOMAS ----- *Registrar (1922)*
- RAYMOND ROSCO GREGG, A.M. ----- *Business Manager*
 Diploma, Southern Illinois State Normal University, 1917;
 Ph.B., 1922, A.M., The University of Chicago, 1923; Gradu-
 ate study, The University of Chicago, summers, 1926, 1927,
 1929, 1930, 1933 and 1934. (1934)
- HANS CHRISTIAN OLSEN, Ph.D. ----- *Director of*
Teacher Training
 A.B., Nebraska State Teachers College, 1920; M.A., 1922,
 Ph.D., Columbia University, 1926 (1938)
- THOMAS ARTHUR PHILLIPS, Ed.D.----- *Principal of*
High School
 B.Ed., Southern Illinois State Normal University, 1938;
 M.S., 1941, M.Ed., 1947, Ed.D, University of Illinois, 1951.
 (1948)
- WILLIAM B. KNOX, Ph.D. --- *Principal of Elementary School*
 B.S. in Ed., Central State Teachers College, Stevens Point,
 Wisconsin, 1938; M.S., 1952, Ph.D., University of Wisconsin,
 1953. (1953)
- BRYAN HEISE, Ph.D. ----- *Director of Extension*
 A.B., 1919, A.M., Ohio State University, 1925; Ph.D., Uni-
 versity of Michigan, 1937, (1937)
- ARTHUR FRANCIS BYRNES, Ed.D. ----- *Director of*
Audio-Visual Center
 B.S., Manhattan College (New York), 1940; M.Ed., Spring-
 field College, 1942; Ed.D., New York University, 1951.
 (1949)
- LAURO RUBEN MONTEMAYOR, M.D. ---- *College Physician*
 B.S., 1941, M.D., University of Nuevo Leon, Monterrey,
 Mexico, 1947. (1953)
- VIRGINIA CAROLYN GILBERT RYLE, M.N. ----- *Health*
Co-ordinator
 B. Ed., Eastern Illinois State Teachers College, 1940; M.N.,
 Western Reserve University, 1946. (1952)
- MARY ELLEN THOMPSON, R.N. ----- *College Nurse*
 Student, North Dakota Agricultural College, 1903-4; Stu-
 dent, State Normal School, Moorhead, Minnesota, 1905-6;
 Graduate, St. John's Training School for Nurses, Fargo,
 North Dakota, 1916. (1930)

- EMMA IRENE FREEMAN, R.N. ----- *College Nurse*
R.N., Training School for Nurses, Cook County Hospital,
Chicago, 1918; Certified Public Health Nurse, Washington
University, 1931. (Substitute) (1953)
- MARY JUNE BLAND, R.N. ----- *College Junior Nurse*
R.N., Wesley Memorial Hospital, Chicago, 1948. (On leave,
1953-54). (1949)
- EDITH GLORIA CARDI, M.S. in Ed. ----- *Social Director,*
Lincoln Hall
B.S., State Teachers College, Potsdam, New York, 1951;
M.S. in Ed., Indiana University, 1953. (1953)
- DONALD ARTHUR KLUGE, M.A. ----- *Social Director,*
Douglas Hall
Ph.B., Carroll College, 1947; M.A., Northwestern University,
1951. (1952)
- MARYANN EHRHARDT, M.S. in Ed. ----- *Social Director*
Pemberton Hall
A.B., Western College, 1948; M.S. in Ed., Indiana University,
1950; Graduate study, Indiana University, 1950-52. (1952)
- DORIS MAE DOWNS, B.S. in Ed. ----- *Supervisor of Foods,*
Pemberton Hall
B.S. in Ed., Eastern Illinois State College, 1952. (1952)
- CAROL EUNICE PETERSON, B.S.I. Mgt. --- *Supervisor of*
Foods, Lincoln and Douglas Halls
B.Ed., University of Toledo, 1934; B.S.I. Mgt., Iowa State
College, 1952. (1952)
- RUTH HENDERSON GAERTNER, M.S. ----- *Director of*
Food Services
B.S. in Ed., Eastern Illinois State Teachers College, 1945;
M.S., Iowa State College, 1951. (1947)
- HENRY JOHNSON ARNOLD, A.M. ----- *Manager of*
Textbook Library
A.B., DePauw University, 1923; A.M., University of Illinois,
1928. (1935)

ART

- MILDRED* RUTH WHITING, Ph.D.* ----- *Professor*
B.F.A., 1928, A.M., 1933, Ph.D., University of Nebraska,
1938. (1936)
- CALVIN COUNTRYMAN, A.M. ----- *Assistant Professor*
Ph.B., The University of Chicago, 1934; A.M., Colorado

State College of Education, 1941; Graduate study, University of Minnesota, summer, 1949; Pennsylvania State University, 1952-53. (1945)

CARL EDWIN SHULL, A.M. ----- *Assistant Professor and Director of Paul Sargent Art Gallery*
B. Ed., Eastern Illinois State Teachers College, 1939; A.M., George Peabody College for Teachers, 1940; Graduate study, Art Institute of Chicago, 1941, 1942, 1946; Ohio State University, summers, 1948, 1949, 1950, 1951, and year 1952-53. (On leave, 1953-54). (1947)

GIFFORD C. LOOMER, Ph.D. ----- *Assistant Professor*
B.Ed., Whitewater State Teachers College (Wisconsin), 1938; B.A., Iowa State Teachers College, 1941; M.A. Teachers College, Columbia University, 1947; Ph.D., University of Wisconsin, 1952. (1951)

LYNN EDGAR TRANK, M.F.A. ----- *Assistant Professor*
B.F.A., University of Nebraska, 1942; B.F.A., Washington University, 1948; M.F.A., State University of Iowa, 1950; Graduate study, Art School, University of Michoacan San Nicolas Hidalgo, 1950-51. (1952)

JUNE MARIE KRUTZA M.F.A. ----- *Assistant Professor*
B.A., Manchester College, 1945; A.M.T., 1951, M.F.A., Indiana University, 1952. (Substitute) (1952)

CARY IRWIN KNOOP, M.F.A. ----- *Instructor in Art*
B.A., James Millikin University, 1950; M.F.A., University of Illinois, 1953. (Substitute) (1953)

BIOLOGICAL SCIENCE

Botany

ERNEST LINCOLN STOVER, Ph.D.* ----- *Professor*
B.S., 1917, M.S., Ohio State University, 1921; Ph.D., The University of Chicago, 1924; Resident Doctor, University of Washington Biological Station, summer, 1926; University of Michigan Biological Station, summer, 1932; Cornell University, summer, 1936; University of Wyoming Science Camp, summer, 1940. (1923)

HIRAM FREDERICK THUT, Ph.D. ----- *Professor*
B.A., Bluffton College, 1925; M.A., 1926, Ph.D., Ohio State University, 1930; Resident Doctor, Iowa State College, summer, 1939; Cornell University, summer, 1941. (1932)

KENNETH EUGENE DAMANN, Ph.D. -- *Associate Professor*
B.S., Kent State University, 1938; M.S., 1940, Ph.D., North-

western University, 1943; Plankton Consultant, Federal Security Agency, summers, 1949 and 1950. (1947)

Zoology

WALTER MERRITT SCRUGGS, Ph.D., Pd.D.* ---- *Professor*
B.Ed., Eastern Illinois State Teachers College, 1928; M.S.,
University of Illinois, 1935; Ph.D., Harvard University
1942; Pd.D., Eastern Illinois State College, 1949. (1929)

HAROLD MAXON CAVINS, Ed.D. ----- *Professor*
B.S., University of Illinois, 1924; M.S., The Pennsylvania
State College, 1928; Ed.D., Stanford University, 1941.
(1928)

HARRY EDWARD PETERKA, Ph.D. --- *Associate Professor*
A.B., Yankton College, 1928; M.A., University of South Da-
kota, 1931; Ph.D., University of Kansas, 1935. (1947)

GARLAND TAVNER RIEGEL, Ph.D. ---- *Associate Professor*
A.A., Hannibal-LaGrange College, 1934; B.S., 1938, M.S.,
1940; Ph.D., University of Illinois, 1947; Postdoctorate Fel-
lowship, University of Illinois, 1947-48. (1948)

MAX BURTON FERGUSON, Ph.D. ----- *Associate Professor*
B.A., Iowa State Teachers College, 1939; M.A., 1947, Ph.D.,
State University of Iowa, 1950. (1950)

VERNE BURTON KNISKERN, Ph.D. --- *Associate Professor*
B.S., 1947, M.S., 1948, Ph.D., University of Michigan, 1950.
(1950)

DONALD ARTHUR KLUGE, M.A. ----- *Instructor*
Ph.B., Carroll College, 1947; M.A., Northwestern University,
1951. (1952)

BUSINESS EDUCATION

JAMES MICHAEL THOMPSON, Ed.D.* ----- *Professor*
B.S., Nebraska State Teachers College, 1929; A.M., Colorado
State College of Education, 1933; Ed.D., New York Uni-
versity, 1936. (1937)

EARL SAMUEL DICKERSON, Ed.D. ----- *Professor*
B.S., Indiana State Teachers College, 1930; M.S., University
of Illinois, 1934; Ed.D., New York University, 1941. (1935)

JAMES FRANCIS GIFFIN, Ph.D. ----- *Associate Professor*
B.S. in Ed., Eastern Illinois State College, 1946; M.C.S.,
Indiana University, 1947; Ph.D., Northwestern University,
1953. (1947)

CLIFFORD LAWRENCE FAGAN, Ph.D. - *Associate Professor*
B.S. in Ed., State Teachers College, Kirksville, Missouri,
1937; M.A., 1940, Ph.D., State University of Iowa, 1949.
(1949)

JESSIE MARTHA HUNTER, M.A.-----*Assistant Professor*
Normal Diploma, Ferris Institute, 1917; Palmer Method
Summer Schools, Cedar Rapids, 1922, Boulder, 1924; A.B.,
1931, M.A., Michigan State College 1932; Graduate study,
Columbia University, 1935-36. (1937)

BERTRAND PRESTON HOLLEY, M.A.----*Assistant Professor*
B.A., Murray State College, Kentucky, 1944; M.A., North-
western University, 1947; Graduate study, Indiana Univer-
sity, summer, 1948; Northwestern University, summer, 1949;
State University of Iowa, summers, 1950, 1951, and 1952;
Northwestern University, 1951-52. (1946)

ROY MAX, Jr. M.B.A.-----*Assistant Professor*
B.S. in B. Adm., Bowling Green State University, 1948;
M.B.A., University of Denver, 1949; Graduate study, Ohio
State University, summers, 1950, 1951, and 1952. (1949)

EDUCATION

EMMA REINHARDT, Ph.D.*-----*Professor*
Diploma, Illinois State Normal University, 1921; A.B., 1924,
M.A., 1925, Ph.D., University of Illinois, 1927. (1927)

DONALD ALLEN ROTHSCILD, Ph.D.-----*Professor*
A.B., 1924, M.A., University of Illinois, 1927; Ph.D., State
University of Iowa, 1932; Part-time study, University of
Illinois, 1937-38. (1934)

ARTHUR USHER EDWARDS, Ph.D.-----*Professor*
A.B., Iowa State Teachers College, 1924; A.M., 1928, Ph.D.,
State University of Iowa, 1932. (1937)

BRYAN HEISE, Ph.D.-----*Professor*
A.B., 1919, A.M., Ohio State University, 1926; Ph.D., Uni-
versity of Michigan, 1937. (1937)

WILLIAM HENRY ZEIGEL, Ph.D.-----*Professor*
B.S., Kirksville State Teachers College, 1925; A.M., 1926,
Ph.D., University of Missouri, 1930. (1937)

HANS CHRISTIAN OLSEN, Ph.D.-----*Professor*
A.B., Nebraska State Teachers College, 1920; M.A., 1922,
Ph.D., Columbia University, 1926. (1938)

- ELIZABETH KNIGHT LAWSON, Ph.D.-----*Professor*
A.B., 1927, M.A., Bucknell University, 1935; Ph.D., New
York University, 1939. (1939)
- RUDOLPH DONALD ANFINSON, Ph.D.-----*Professor*
B.Ed., State Teachers College, St. Cloud, Minnesota, 1932;
M.A., 1933, Ph.D., University of Minnesota, 1939; Graduate
study, Leland Stanford University, 1950-51. (1940)
- THOMAS ARTHUR PHILLIPS, Ed.D.-----*Associate Professor*
B.Ed., Southern Illinois State Normal University, 1938;
M.S., 1941, M.Ed., 1947, Ed.D., University of Illinois, 1951.
(1948)
- ARTHUR FRANCIS BYRNES, Ed.D.-----*Associate Professor*
B.S., Manhattan College (New York), 1940; M. Ed., Spring-
field College, 1942; Ed.D., New York University, 1951.
(1949)
- DONALD LEWIS MOLER, Ph.D.-----*Assistant Professor*
B.S., Kansas State Teachers College, 1939; M.E., 1949, Ph.D.,
University of Kansas, 1951. (1951)
- WILLIAM JOSEPH CRANE, Ph.D.-----*Assistant Professor*
B.A., University of Wisconsin, 1942; M.A., University of
Colorado, 1950; Ph.D., Yale University, 1952. (1952)
- WILLIAM B. KNOX, Ph.D.-----*Assistant Professor*
B.S. in Ed., Central State Teachers College, Stevens Point,
Wisconsin, 1938; M.S., 1952, Ph.D., University of Wisconsin,
1953. (1953)
- FRANCIS RAYMOND McKENNA, Ed.D.---*Assistant Professor*
B.A. in Ed., State Teachers College, North Dakota, 1934;
M.Mus., Northwestern University, 1939; M.Ed., 1951, Ed.D.,
Harvard University, (January) 1954. (1953)
- NED STUART SCHROM, Ed.D.-----*Assistant Professor*
B.S. in Ed., 1948, M.Ed., 1949, Ed.D., University of Missouri,
1953. (1953)
- MARYANN EHRHARDT, M.S. in Ed.-----*Instructor*
A.B., Western College, 1948; M.S. in Ed., Indiana Univer-
sity, 1950; Graduate study, Indiana University, 1950-52.
(1952)

ENGLISH

- EUGENE MELVILLE WAFFLE, Ph.D.*-----*Professor*
A.B., Indiana State Teachers College, 1925; M.A., Columbia
University, 1932; Ph.D., George Peabody College for Teach-
ers, 1939. (1926)

- FRANCIS WILLARD PALMER, Ph.D.-----*Professor*
B.A., 1934, M.A., 1936, Ph.D., State University of Iowa,
1939. (1945)
- GLADYS WINIFRED EKEBERG, Ph.D.---*Associate Professor*
B.S., 1927, M.A., Northwestern University, 1930; Ph.D., Uni-
versity of Wisconsin, 1942. (1945)
- ROBERT LEE BLAIR, Ph.D.-----*Associate Professor*
B.A., 1928, M.A., Ohio State University, 1929; Ph.D., Uni-
versity of Illinois, 1936; Postgraduate study, The Univer-
sity of Chicago, summer, 1936; New York University, sum-
mers, 1945, 1946. (1946)
- RUTH HUFF CLINE, Ph.D.-----*Associate Professor*
B.A., Bridgewater College, 1922; M.A., Vanderbilt Uni-
versity, 1926; A.M., Radcliffe College, 1928; Ph.D., The Univer-
sity of Chicago, 1939. (1947)
- JUDD KLINE, Ph.D.-----*Associate Professor*
B.S., 1937, M.A., 1939, Ph.D., University of Minnesota, 1947.
(1948)
- EMMA CHENAULT KELLY, Ed.D. -----*Assistant Professor*
A.B., University of Kentucky, 1927; M.A., Columbia Uni-
versity, 1937; Ed.D., New York University, (October) 1953.
(1946)
- MERRILIE MATHER, Ph. D.-----*Assistant Professor*
A.B., 1942, A.M., 1943, Ph.D., Boston University, 1950.
(1951)
- GEORGE WILLIAM ROMMEL, Ph.D.-----*Assistant Professor*
B.S. in Ed., Northern Illinois State Teachers College, 1946;
M.A., 1951, Ph.D., Northwestern University, 1953. (1953)

FOREIGN LANGUAGES

- KEVIN JOSEPH GUINAGH, Ph.D.*-----*Professor*
A.B., 1919, A.M., St. Vincent College, 1921; Graduate study,
Catholic University of America, 1921-23; Ph.D., University
of Pittsburgh, 1931; Part-time study, University of Illinois,
1938. (1931)
- ELLEN ELIZABETH MICHAEL, Ph. D.---*Associate Professor*
A.B., Coe College, 1928; A.M., The University of Chicago, summer,
1929; Graduate study, The University of Chicago, summer,
1934; Columbia University, summer, 1935; Institut de
Phonetique, Paris, summer, 1936; Middlebury College, sum-
mers, 1939 and 1940; University of Mexico, summer, 1941;
University of Illinois, summer, 1942; Ph.D., Laval Univer-
sity, 1948. (1930)

VERNON LOCKWOOD ANDERSON, Ph.D.-----*Assistant Professor*
 B.A., 1939, M.A., University of Utah, 1950; Ph.D., Stanford University, 1953. (1953)

GEOGRAPHY

BYRON KURTZ BARTON, Ph.D.*-----*Professor*
 B.Ed., Illinois State Normal University, 1938; M.A., 1939, Ph.D., University of Nebraska, 1949. (1948)

ROSE ZELLER, Ph.D. -----*Professor*
 B.Ed., Illinois State Normal University, 1926; M.A., 1930, Ph.D., Clark University, 1940. (1930)

RUBY MILDRED HARRIS, S.M.-----*Associate Professor*
 Diploma, Eastern Illinois State Normal School, 1912; S.B., 1923, S.M., The University of Chicago, 1932; Graduate study, The University of Chicago, summer, 1936, spring and summer, 1941. (On leave, 1953-54) (1923)

ALBERT WARREN BROWN, D.S.Sc.-----*Assistant Professor*
 A.B., 1949, D.S.Sc., Syracuse University, 1952. (1952)

HEALTH EDUCATION

HAROLD MAXON CAVINS, Ed.D.*-----*Professor*
 B.S., University of Illinois, 1924; M.S., The Pennsylvania State College, 1928; Ed.D., Stanford University, 1941. (1928)

HARLAND ALLAN RIEBE, Ed.D.-----*Associate Professor*
 B.A., Iowa State Teachers College, 1941; M.A., Teachers College, Columbia University, 1946; Ed.D., University of Colorado, 1950. (1950)

VIRGINIA CAROLYN GILBERT RYLE, M.N.-----*Instructor*
 B.Ed., Eastern Illinois State Teachers College, 1940; M.N., Western Reserve University, 1946. (1952)

HOME ECONOMICS

SADIE OCKEY MORRIS, Ph.D.*-----*Professor*
 B.S., 1922, M.A., Utah State Agricultural College, 1924; Ph.D., Columbia University, 1933; Postgraduate study, Iowa State College, summer, 1935; University of California, summer, 1938. (1939)

RUTH SCHMALHAUSEN, D.Ed.-----*Professor*
Ph.B., The University of Chicago, 1923; M.A., Columbia
University, 1932; D.Ed., Pennsylvania State College, 1944.
(1937)

HELEN LOUISE DEVINNEY, A.M.-----*Assistant Professor*
B.Ed., Eastern Illinois State Teachers College, 1935; A.M.,
Columbia University, 1940; Graduate study, Columbia Uni-
versity, summers, 1945, 1946; Ohio State University, 1950-
51. (1943)

RUTH HENDERSON GAERTNER, M.S.-----*Instructor*
B.S. in Ed., Eastern Illinois State Teachers College, 1945;
M.S., Iowa State College, 1951. (1947)

JULIA KILPATRICK, M.S.-----*Instructor*
B.S. in Ed., University of Missouri, 1937; M.S., Iowa State
College, 1942. (1950)

ELIZABETH WILSON, M.S.-----*Instructor*
B.S. in Ed., Northeast Missouri State Teachers College,
1940; M.S., Virginia Polytechnic Institute, 1951. (1952)

INDUSTRIAL ARTS

WALTER ALLEN KLEHM, Ed.D.*-----*Professor*
B.A., North Central College, 1924; M.A., University of Illi-
nois, 1929; Ed.D., University of Missouri, 1937. (1938)

RUSSELL HENRY LANDIS, D. Ed.-----*Professor*
B.S., The Stout Institute, 1930; M.S., Iowa State College,
1934; D. Ed., Pennsylvania State College, 1940. (1930)

EWELL WELDON FOWLER, Ed.D.-----*Associate Professor*
B.S., East Texas State Teachers College, 1934; M.S., Agri-
cultural and Mechanical College of Texas, 1937; Ed.D., Uni-
versity of Missouri, 1949. (1941)

CHARLES ARTHUR ELLIOTT, Ed.D.----*Associate Professor*
B.Ed., Eastern Illinois State Teachers College, 1931; M.Ed.,
1946, Ed.D., University of Missouri, 1953. (1946)

HARRY GUNDERSON, Ed.D.----- *Associate Professor*
B.S. in Ed., Ohio State University, 1932; M. S. in Ed., 1940,
Ed.D., Indiana University, 1949. (1948)

GLENN SPENSER DUNCAN, Ed.D.-----*Associate Professor*
B.S. in Ed., State Teachers College, Maryville, Missouri,
1932; A.M., 1942, Ed.D., University of Missouri, 1950.
(1950)

LIBRARY

ROSCOE FREDERICK SCHAUPP, Ph.D.*-----*Professor and*
Librarian

A.B., University of Nebraska, 1926; M.A., 1929, Ph.D., Ohio State University, 1934; A.B.L.S., University of Michigan., 1939. (1945)

HARRIET LOVE, M.S.-----*Assistant Professor*
A.B., Vassar College, 1926; Certificate, Library School of the University of Wisconsin, 1927; M. S., School of Library Science, Western Reserve University, 1932. (1932)

MARGARET LORENA EKSTRAND, AM. in L.S.----*Assistant Professor*
B.Ed., Illinois State Normal University, 1933; B.S. in L.S., George Peabody College for Teachers, 1942; A.M. in L.S., University of Michigan, 1948. (1942)

MARY ELIZABETH SCOTT, M.S. in L.S.---*Assistant Professor*
B.A. in L.S., 1935, B.A., University of Oklahoma, 1936; M.S., in L.S., Columbia University, 1943. (1948)

JAMES GLENN EBERHARDT, M.S. in L.S.-----*Assistant Professor*
B.A. in Ed., University of Florida, 1940; M.S. in L.S., George Peabody College for Teachers, 1949. (1949)

BENJAMIN MORGAN LEWIS, A.M. in L.S.-----*Assistant Professor*
B.A., Ohio Wesleyan University, 1941; A.M., 1947, A.M. in L.S., University of Michigan, 1950. (1951)

LEE ANNA JEWELL SMOCK, A.M.-----*Instructor*
B.A., Bethany College, 1925; A.M., University of Kansas, 1931; B.S., in L.S., University of Illinois, 1942. (1944)

MARY STELLA CARR, A.M.-----*Instructor and High School Librarian*
A.B., Hanover College, 1948; A.M., George Peabody College for Teachers, 1949. (1949)

MATHEMATICS

LAWRENCE ALBERT RINGENBERG, Ph.D.*-----*Professor*
A.B., B.S. in Ed., Bowling Green State University, 1937; M.A., 1939, Ph.D., Ohio State University, 1941. (1947)

HOBART FRANKLIN HELLER, Ph.D.-----*Professor*
B.S., Gettysburg College, 1924; A.M., 1931, Ph.D., Columbia University, 1940. (1931)

DAVID JOHN DAVIS, Ph.D.-----*Associate Professor*
A.B., 1930, A.M., Miami University, 1938; Ph.D., University of Michigan, 1950. (1950)

LESTER RAYMOND VANDEVENTER, Ed.D.-----*Assistant
Professor*
B.Ed., Eastern Illinois State Teachers College, 1938; M.S.,
1941, Ed.D., University of Illinois, (January) 1954. (1946)

MUSIC

LEO J. DVORAK, Ph.D.*-----*Professor*
B.A., B.M., Upper Iowa University, 1932; M.A., 1933, Ph.D.,
State University of Iowa, 1939. (1940)

ROBERT AUSTIN WARNER, Ph.D.-----*Associate Professor*
B.A., Iowa State Teachers College, 1933; M.A., Eastman
School of Music, University of Rochester, 1938; Ph.D., Uni-
versity of Michigan, 1951. (1938)

EARL WOODROW BOYD, Ph.D.-----*Associate Professor*
B.M., 1940, M.A., University of Wisconsin, 1946; Ph. D.,
State University of Iowa, 1951. (1947)

GEORGE STEVE WESTCOTT, Ph.D.-----*Associate Professor*
A.B., Adams State College (Colorado), 1946; M.A., 1947,
Ph.D., State University of Iowa, 1949. (1949)

JOHN LOUIS REZATTO, Ed.D.-----*Associate Professor*
B.S., Central State Teachers College, Stevens Point, Wiscon-
sin, 1931; M.S., University of North Dakota, 1937; Ed.D.
University of Colorado, 1951. (1951)

ETHEL IRENE HANSON, A.M.-----*Assistant Professor*
Diploma, Milwaukee State Teachers College, 1916; B.M.,
1926, A.M., University of Wisconsin, 1935; Graduate study,
University of Southern California, summer, 1941; Temple
University, summer, 1950; University of Southern Califor-
nia, summer, 1952. (1927)

CATHERINE ANNE SMITH, M.M.-----*Instructor*
B.M., 1947, M.M., Indiana University, 1948; Aspen Institute
Aspen, Colorado, summer, 1951. (1949)

PHYSICAL EDUCATION

Men

JOHN WILLIAM MASLEY, D.Ed.*-----*Professor*
B.S. in Ed., Northern Illinois State Teachers College, 1946;
M.A., University of California, 1947; D.Ed., Pennsylvania
State College 1950. (1952)

- CLIFTON WASHINGTON WHITE, D.Ed.---*Associate Professor*
B.A., University of Denver, 1930; M.S., 1941, D. Ed., University of Oregon, 1946. (1947)
- MAYNARD O'BRIEN, M.S.-----*Assistant Professor*
B.S., Illinois Wesleyan University, 1931; M.S., University of Illinois, 1946; Graduate study, University of Illinois, summers, 1946, 1948, 1949, 1950, 1951, 1953, and year 1951-52. (1946)
- REX VIRGIL DARLING, P.E.Dir.-----*Assistant Professor*
B.Ed., Illinois State Normal University, 1939; M.S., Indiana University, 1946; P.E. Dir., Indiana University, 1949; Graduate study, Indiana University, summer, 1950. (1945)
- WILLIAM HOLLAND GROVES, Ph.D.----*Assistant Professor*
B. Ed., Southern Illinois University, 1941; M.A., 1949, Ph.D., State University of Iowa, 1952. (1951)
- JOHN NANOVSKY, Pe.D.-----*Assistant Professor*
B.S. in Ed., Miami University, 1938; Ed.M., University of Pittsburgh, 1941; P.E. Dir., 1951, Pe.D., Indiana University, 1952. (Substitute) (1952)
- ROBERT ALLEN CAREY, Pe.D.-----*Assistant Professor*
B.S., LaCrosse, Wisconsin, State Teachers College, 1943; M.S., University of Wisconsin, 1947; Pe.D., Indiana University, (February) 1954. (1953)

Women

- FLORENCE McAFEE, Ed.D.*-----*Professor*
B.A., The Pennsylvania State College, 1923; Two-year certificate, Graduate Department of Hygiene and Physical Education, Wellesley College, 1924; A.M., Columbia University, 1931; Ed. D., New York University, 1940. (1924)
- EDITH CRAWFORD HAIGHT, Ph.D.-----*Associate Professor*
A.B., The Women's College of the University of North Carolina, 1915; Two-year certificate, Graduate Department of Hygiene and Physical Education, Wellesley College, 1919; M.A., Columbia University, 1926; Ph.D., New York University, 1944. (1938)
- ALINE RUTH ELLIOTT, M.A.-----*Assistant Professor*
B.S. in Ed., Kansas State Teachers College, 1927; M.A., University of Iowa, 1940; Graduate study, New York University, 1949-50. (1944)
- WINIFRED HENRIETTA BALLY, M.A.---*Assistant Professor*
B. Ed., Illinois State Normal University, 1933; M.A., New

York University, 1937; Graduate study, New York University, 1951-52. (1946)

DOROTHY MAE HART, M.S.-----*Instructor*
B.S. in Ed., Southern Illinois Normal University, 1946;
M.S., University of Illinois, 1947; Graduate study, New York University, summer, 1952. (On leave, 1953-54) (1947)

CHARLOTTE LaVERNE LAMBERT, M.A.-----*Instructor*
B.A., Evansville College, 1944; M.A., State University of Iowa, 1949. (On leave, 1953-54) (1949)

JULIA RUTH DENHAM, M.A.-----*Instructor*
B.A., William Smith College, 1936; M.A., Columbia University, 1945. (1953)

MARTHA MARISE DAVES, M.A.-----*Instructor*
B.S., Alabama College, 1944; M.A., New York University, 1946. (Substitute) (1953)

RENATE MILLY LENEL-----*Exchange Instructor*
Diploma, Queen Alexandra's House. Physical Training College, 1937. (1953)

PHYSICAL SCIENCE

Chemistry

HARRIS EUGENE PHIPPS, Ph.D.*-----*Professor*
A.B., 1926, M.A., Oberlin College, 1928; Ph.D., University of Illinois, 1931. (1931)

LAWSON FRANCIS MARCY, Ph.D.-----*Associate Professor*
B.A., Evansville College, 1924; M.A., Columbia University, 1926; Ph.D., Ohio State University, 1943. (1944)

MELVIN ORVIL FOREMAN, Ph.D.-----*Associate Professor*
B.S., Capital University, 1925; S.M., Ph.D., The University of Chicago, 1929; Graduate study, University of Illinois, summer, 1950. (1946)

SIDNEY RUSSELL STEELE, Ph.D.-----*Associate Professor*
B.S., University of Toledo, 1939; Ph.D., Ohio State University, 1943. (1947)

Physics

GLENN QUENTIN LEFLER, Ph.D.*-----*Professor*
A.B., 1929, A.M., 1932, Ph.D., Indiana University, 1936. (1946)

- IRVIN LEE SPARKS, Ph.D.-----*Associate Professor*
B.S., Central Missouri State College, 1943; A.M., 1948, Ph.D.,
University of Missouri, 1951. (1951)
- ROBERT CLINTON WADDELL, M.S. ----*Assistant Professor*
B.S. in Ed., Eastern Illinois State College, 1947; M.S., Uni-
versity of Illinois, 1948; Graduate study, Iowa State Col-
lege, summers, 1949, 1950, 1951, and 1952. (On leave, 1953-
54) (1948)
- PERCY SCOTT SMITH, Ph.D.-----*Assistant Professor*
A.B., 1943, Ph.D., Cornell University, 1951. (Substitute)
(1953)

SOCIAL SCIENCE

- CHARLES HUBERT COLEMAN, Ph.D.*-----*Professor*
A.B., George Washington University, 1924; A.M., 1926,
Ph.D., Columbia University, 1933. (1926)
- GLENN HURON SEYMOUR, Ph.D.-----*Professor*
A.B., 1924, M.A., 1925, Ph.D., University of Illinois, 1929;
Post-graduate study, University of Wisconsin summer, 1939.
(1929)
- WILLIAM GERBING WOOD, Ph.D.-----*Professor*
A.B. Illinois Wesleyan University, 1927; A.M., 1933, Ph.D.,
University of Illinois, 1938. (1938)
- DONALD RHODES ALTER, Ph.D.-----*Associate Professor*
B.S. in Ed., University of Missouri, 1920; A.M., Columbia
University, 1924; Ph.D., University of Illinois, 1934; Post-
graduate study, Harvard University, summer, 1938. (1934)
- RAYMOND ARTHUR PLATH, Ph.D.-----*Associate Professor*
B.S., 1933, M. Ph., 1936, Ph.D., University of Wisconsin,
1939. (1946)
- WILLIAM DILWORTH MINER, Ph.D.-----*Associate Professor*
A.B., Knox College, 1936; A.M., 1948, Ph.D., Indiana Uni-
versity, 1950. (1950)

SPEECH

- JAMES GLENN ROSS, Ph.D.*-----*Professor*
B.A., 1925, M.A., 1928, Ph.D., Ohio State University, 1933.
(1934)
- ELBERT RAYMOND MOSES, JR., Ph.D.---*Associate Professor*
A.B., University of Pittsburgh, 1932; M.S., 1934; Ph.D.,

University of Michigan, 1936; Post-graduate study, summer, 1938, Oberlin College. (1946)

EARNEST GLENDON GABBARD, M.A.---*Assistant Professor*
A.B., Berea College, 1941; M.A., State University of Iowa, 1947; Graduate study, University of Illinois, summers, 1951 and 1952; State University of Iowa, year 1952-53. (On leave, 1953-54) (1947)

EARL PHIPPS BLOOM, A.M. -----*Assistant Professor*
A.B., 1943, A.M., University of Illinois, 1948; Graduate study, University of Illinois, years 1948-52. (Substitute) (1952)

ERNEST GORDON BORMANN, Ph.D.----*Assistant Professor*
B.A., University of South Dakota, 1949; M.A., 1951, Ph.D., State University of Iowa, 1953. (1953)

WAYNE LaVERNE THURMAN, Ph.D.----*Assistant Professor*
A.B., B.S. in Ed., Southeast Missouri State Teachers College, 1948; M.A., State University of Iowa, 1949; Ph.D., Purdue University, 1953. (1953)

TRAINING SCHOOLS

HANS CHRISTIAN OLSEN, Ph.D.-----*Director of*
Teacher Training
A.B., Nebraska State Teachers College, 1920; M.A., 1922, Ph.D., Columbia University, 1926. (1938)

Elementary School

WILLIAM B. KNOX, Ph.D.-----*Assistant Professor and*
Principal of Elementary School
B.S. in Ed., Central State Teachers College, Stevens Point, Wisconsin, 1938; M.S., 1952, Ph.D., University of Wisconsin, 1953. (1953)

MAURICE HARLAN STUMP, A.M.-----*Instructor and*
Eighth Grade Critic
A.B., 1949, A.M., Colorado State College of Education, 1950. (1952)

SAMUEL EDWARD PISARO, M.E.-----*Assistant Professor*
and Seventh Grade Critic
B.E., State Teachers College, Geneseo, New York, 1949; M.E., State Teachers College, Buffalo, New York, 1951; Graduate study, University of Buffalo, summers, 1951, 1952, 1953. (1953)

- LORENE ELIZABETH ZIEGLER, A.M.---*Assistant Professor
and Sixth Grade Critic*
B.Ed., Illinois State Normal University, 1942; M.A., North-
western University, 1947; Graduate study, Columbia Uni-
versity, summers, 1950, 1951, and 1952. (On leave, 1953-54)
(1947)
- SARAH E. FREDENBERGER, A.M.-----*Instructor and
Sixth Grade Critic*
B.S. in Ed., Eastern Illinois State College, 1946; A.M.,
George Peabody College for Teachers, 1953. (Substitute)
(1953)
- FLORENCE ESTALENE REID, M.A.-----*Assistant Professor
and Fifth Grade Critic*
Diploma, National Kindergarten and Elementary School,
1921; B.A., Iowa State Teachers College, 1930; M.A., Uni-
versity of Iowa, 1937; Graduate study, Pennsylvania State
College, summer, 1939; University of Iowa, summer, 1944.
(1946)
- MYRTLE ARNOLD, A.M.----- *Assistant Professor and
Fourth Grade Critic*
Diploma, St. Cloud State Teachers College, 1917; B.S., Uni-
versity of Minnesota, 1930; A.M., George Peabody College
for Teachers, 1935; Graduate study, University of Wyoming,
summer, 1939; University of Southern California, 1945-46.
(1930)
- NANNILEE SAUNDERS, A.M.-----*Assistant Professor and
Third Grade Critic*
B.S., George Peabody College for Teachers, 1929; M.A., Co-
lumbia University, 1935; Graduate study, George Peabody
College for Teachers, summer, 1940, years 1947-49. (1935)
- VELMA VALERA COX, M.Ed.-----*Instructor and Second
Grade Critic*
B.S. in Ed., 1935, M. Ed., University of Missouri, 1948; Grad-
uate study, University of Missouri, summer, 1951; George
Peabody College for Teachers summer, 1952. (1948)
- VIRGINIA ANN TATE, M. Ed.-----*Instructor and First
Grade Critic*
B.S. in Ed., 1940, M.Ed., University of Missouri, 1951. (1952)
- GLENN SPENCER DUNCAN, Ed.D.-----*Associate Professor
in Industrial Arts*
B.S. in Ed., State Teachers College, Maryville, Missouri,
1932; A.M., 1942, Ed. D., University of Missouri, 1950. (1950)

- MARIE GRACE GARDNER FOWLER, M.S.-----*Instructor in
Home Economics*
B.S., West Texas State Teachers College, 1927; M.S., Iowa
State College, 1935. (1952)
- ETHEL IRENE HANSON, A.M.---*Assistant Professor in Music*
Diploma, Milwaukee State Teachers College, 1916; B.M.,
1926, A.M., University of Wisconsin, 1935; Graduate study,
University of Southern California, summer, 1941; Temple
University, summer, 1950; University of Southern Califor-
nia, summer, 1952. (1927)
- JESSIE MARTHA HUNTER, M.A.-----*Assistant Professor
in Penmanship*
Normal Diploma, Ferris Institute, 1917; Palmer Method
Summer Schools, Cedar Rapids, 1922, Boulder, 1924; A.B.,
1931, M.A., Michigan State College, 1932; Graduate study,
Columbia University, 1935-36. (1937)
- VIRGINIA OCTAVIA WHEELER HYATT, A.M.----*Assistant
Professor in Art*
B.S. in Ed., 1929, A.M., University of Missouri, 1931; Grad-
uate study, University of Missouri, 1940-42. (On leave,
1953-54) (1944)
- CARY IRWIN KNOOP, M.F.A. -----*Instructor in Art*
B.A., James Millikin University, 1950; M.F.A., University
of Illinois, 1953. (Substitute) (1953)
- CHARLOTTE LaVERNE LAMBERT, M.A.-----*Instructor in
Physical Education*
B.A., Evansville College, 1944; M.A., State University
of Iowa, 1949. (On leave, 1953-54) (1949)
- RENATE MILLY LENEL-----*Exchange Instructor in
Physical Education*
Diploma, Queen Alexandra's house. Physical Training Col-
lege, 1937. (1953)
- HARRIET LOVE, M.S.-----*Assistant Professor and Librarian*
A.B., Vassar College, 1926; Certificate, Library School of
the University of Wisconsin, 1927; M.S., School of Library
Science, Western Reserve University, 1932. (1932)
- PARIS JOHN VAN HORN, P.E.Dir.-----*Assistant Professor
in Physical Education*
B.S., Indiana State Teachers College, 1926; M.S. in Ed., 1935,
P.E.Dir., Indiana University, 1947. (On leave, 1953-54)
(1935)

Eastern State High School

- THOMAS ARTHUR PHILLIPS, Ed.D.-----*Associate Professor
and Principal of High School*
B.Ed., Southern Illinois State Normal University, 1938;
M.S., 1941, M.Ed., 1947, Ed.D., University of Illinois, 1951.
(1948)
- WINIFRED HENRIETTA BALLY, M.A.---*Assistant Professor
in Girl's Physical Education*
B.Ed., Illinois State Normal University, 1933; M.A., New
York University, 1937; Graduate study, New York Univer-
sity, year 1951-52. (1946)
- MARY STELLA CARR, A.M.-----*Instructor and
High School Librarian*
A.B., Hanover College, 1948; A.M., George Peabody College
for Teachers, 1949. (1949)
- CALVIN COUNTRYMAN, A.M.-----*Assistant Professor in Art*
Ph.B., The University of Chicago, 1934; A.M., Colorado
State College of Education, 1941; Graduate study, Univer-
sity of Minnesota, summer, 1949; Pennsylvania State Uni-
versity, 1952-53. (1945)
- DAVID JOHN DAVIS, Ph.D.-----*Associate Professor
in Mathematics*
A.B., Miami University, 1930; A.M., 1938, Ph.D., University
of Michigan, 1950. (1950)
- WILLIAM FRANK EAGAN, M.Ed.-----*Instructor in
Social Science*
B.A., Elmhurst College, 1942; M.Ed., Loyola University,
1949; Graduate study, Loyola University, 1949-50, summer,
1952. (1952)
- ALINE RUTH ELLIOTT, M.A.-----*Assistant Professor
in Physical Education*
B.S. in Ed., Kansas State Teachers College, 1927; M.A., Uni-
versity of Iowa, 1940; Graduate study, New York Univer-
sity, 1949-50. (1944)
- CHARLES ARTHUR ELLIOTT, Ed.D.-----*Associate Professor
in Industrial Arts*
B.Ed., Eastern Illinois State Teachers College, 1931; M.Ed.,
1946, Ed.D., University of Missouri, 1953. (1946)
- WALTER LUCIEN ELMORE, M.A. in Ed.---*Assistant Professor
in Boy's Physical Education and Athletic Coach*
A.B., Georgetown College, 1942; M.A. in Ed., University of
Kentucky, 1948; Graduate study, University of Illinois, sum-
mers, 1949, 1951, 1952. (1948)

- MARIE GRACE GARDNER FOWLER, M.S.,-----*Instructor
in Homemaking*
B.S., West Texas State Teachers College, 1927; M.S., Iowa
State College, 1935. (1952)
- GERTRUDE HENDRIX, M.S., A.M.-----*Assistant Professor
in Mathematics*
A.B., DePauw University, 1926; M.S., (Education), 1930,
A.M. (Mathematics), University of Illinois, 1935; Graduate
study, The University of Chicago, summers, 1940 and 1941,
and year 1946-47. (1930)
- ARNOLD JOHN HOFFMAN, M.S. ----*Assistant Professor in
Chemistry and Physics*
B.S., Eureka College, 1930; M.S., University of Illinois, 1932;
Graduate study, University of Illinois, summer, 1946. (1945)
- LELA LOUISE JOHNSON, M.C.S.-----*Assistant Professor in
Business Education*
A.B., 1931, M.C.S., Indiana University, 1946; Graduate study,
New York University, summers, 1949 and 1950. (1947)
- ICA MARKS, M.S.----*Assistant Professor in Biological Science*
B.Ed., Eastern Illinois State Teachers College, 1927; M.S.,
Ohio State University, 1929; Graduate study, State Univer-
sity of Iowa, 1929-30; University of Michigan, summers,
1935, 1936, and 1938; University of California, summer,
1951. (1932)
- MILDRED DOLE MORGAN, M.A.-----*Assistant Professor in
English and Director of Guidance*
B.S., University of Illinois, 1929; M.A., Columbia University,
1934; Graduate study, University of Wisconsin, summer,
1942; Columbia University, summers, 1946, 1948, and 1949.
(1946)
- LOUISE MURRAY, M.A.-----*Instructor in English*
B.A., University of Toronto, 1945; M.A., Teachers College,
Columbia University, 1949. (1951)
- JOHN ROBERT PENCE, M.M.Ed.-----*Instructor in Music*
B.P.S.M., Indiana University, 1942; M.M.Ed., Oberlin Col-
lege, 1951. (1951)
- ROBERTA LEE POOS, A.M.--*Instructor in English and Speech*
B.Ed., Illinois State Normal University, 1927; A.M., Univer-
sity of Illinois, 1935; Graduate study, Pennsylvania College
for Women, summer, 1937. (1935)
- OTHO JAMES QUICK, M.A.-----*Assistant Professor
in Industrial Arts*
B.Ed., Eastern Illinois State Teachers College, 1936; M.A.,
University of Minnesota, 1946; Graduate study, Univer-

sity of Minnesota, summers, 1948 and 1951; Cornell University, summer, 1949; Penn State College, summer, 1950; University of Minnesota, 1952-53. (1946)

DONALD FRED TINGLEY, Ph.D.-----*Assistant Professor
in Social Science*
B.S. in Ed., Eastern Illinois State College, 1947; A.M., 1948,
Ph.D., University of Illinois, 1952. (Substitute) (1953)

PARIS JOHN VAN HORN, P.E.Dir.-----*Assistant Professor
in Physical Education*
B.S., Indiana State Teachers College, 1926; M.S. in Ed.,
1935, P.E.Dir., Indiana University, 1947. (On leave, 1953-
54) (1935)

EXTENSION

BRYAN HEISE, Ph.D.-----*Director of Extension, Education*
RUDOLPH DONALD ANFINSON, Ph.D. -----*Education*
BYRON KURTZ BARTON, Ph.D.-----*Geography*
ROBERT LEE BLAIR, Ph.D.-----*English*
ARTHUR FRANCIS BYRNES, Ed.D.-----*Education*
HAROLD MAXON CAVINS, Ed.D.-----*Health Education*
RUTH HUFF CLINE, Ph.D.-----*English*
CALVIN COUNTRYMAN, A.M.-----*Art*
WILLIAM JOSEPH CRANE, Ph.D.-----*Education*
KENNETH EUGENE DAMANN, Ph.D.-----*Botany*
GLENN SPENSER DUNCAN, Ed.D.-----*Industrial Arts*
LEO J. DVORAK, Ph.D.-----*Music*
JAMES GLENN EBERHARDT, M.S. in L.S.-----*Library*
EWELL WELDON FOWLER, Ed.D.-----*Industrial Arts*
EDITH CRAWFORD HAIGHT, Ph.D.-----*Physical Education*
ELIZABETH KNIGHT LAWSON, Ph.D.-----*Education*
FRANCIS RAYMOND McKENNA, Ed.D.-----*Education*
WILLIAM DILWORTH MINER, Ph.D.-----*Social Science*
DONALD LEWIS MOLER, Ph.D.-----*Education*
ELBERT RAYMOND MOSES, Ph.D.-----*Speech*
HERLAND ALLAN RIEBE, Ed.D.-----*Health Education*
JAMES GLENN ROSS, Ph.D.-----*Speech*
CAROLYN GILBERT RYLE, M.N.-----*Health Education*
HIRAM FREDERICK THUT, Ph.D.-----*Botany*
WILLIAM GERBING WOOD, Ph.D.-----*Social Science*
WILLIAM HENRY ZEIGEL, Ph.D.-----*Education*
ROSE ZELLER, Ph.D.-----*Geography*

FACULTY ASSISTANTS

NANCY BORMANN, M.A.----- *Women's Physical Education*

DORIS MAE DOWNS, B.S. in Ed.-----*Supervisor of Foods,
Pemberton Hall*
 JEANETTE R. KLUGE, A.B. -----*Assistant Director,
Douglas Hall*
 LUCILLE N. McKENNA, A.M.-----*Recorded Music Library*
 WALTER WILLIAM MONTROSS-----*Printer*
 CAROL EUNICE PETERSON, B.S.I.Mgt.-----*Supervisor of
Foods, Lincoln and Douglas Halls*
 VANLOU P. TRANK, M.S. in Ed.-----*Registrar's Office*

DISABILITY LEAVE

§HOWARD DeFOREST WIDGER, Ph.D.-----*Professor*
 HARRY LOUIS METTER, Ph.D.-----*Professor*
 GILBERT T. CARSON, A.M.-----*Assistant Professor*
 RUTH HOSTETLER, A.M.-----*Assistant Professor*
 BLANCHE C. THOMAS-----*Registrar*

EMERITUS FACULTY

FISKE ALLEN, A.M.-----*Professor Emeritus*
 SIMEON E. THOMAS, LL.D.-----*Professor Emeritus*
 ANNIE LAURA WELLER, A.B., S.B. ----*Professor Emeritus*
 EDSON H. TAYLOR, Ph.D.-----*Professor Emeritus*
 ISABEL McKINNEY, A.M.-----*Professor Emeritus*
 CHARLES STOCKMAN SPOONER, Ph.D. *Professor Emeritus*
 CHARLES P. LANTZ, Pd.D.-----*Professor Emeritus*
 MARY JOSEPHINE BOOTH, B.L.S., Litt.D. *Associate Professor
and Librarian Emeritus*
 ALBERT B. CROWE, A.M.-----*Associate Professor Emeritus*
 EDITH E. RAGAN-----*Assistant Professor Emeritus*
 LENA B. ELLINGTON, A.M.-----*Assistant Professor Emeritus*
 EDITH LEVAKE, A.M.-----*Assistant Professor Emeritus*
 LEAH STEVENS CASTLE, S.M. *Assistant Professor Emeritus*
 RUTH CARMAN, M.A.-----*Assistant Professor Emeritus*
 GILBERTA COFFMAN-----*Instructor Emeritus*
 ALICE McKINNEY, A.M.-----*Instructor Emeritus*



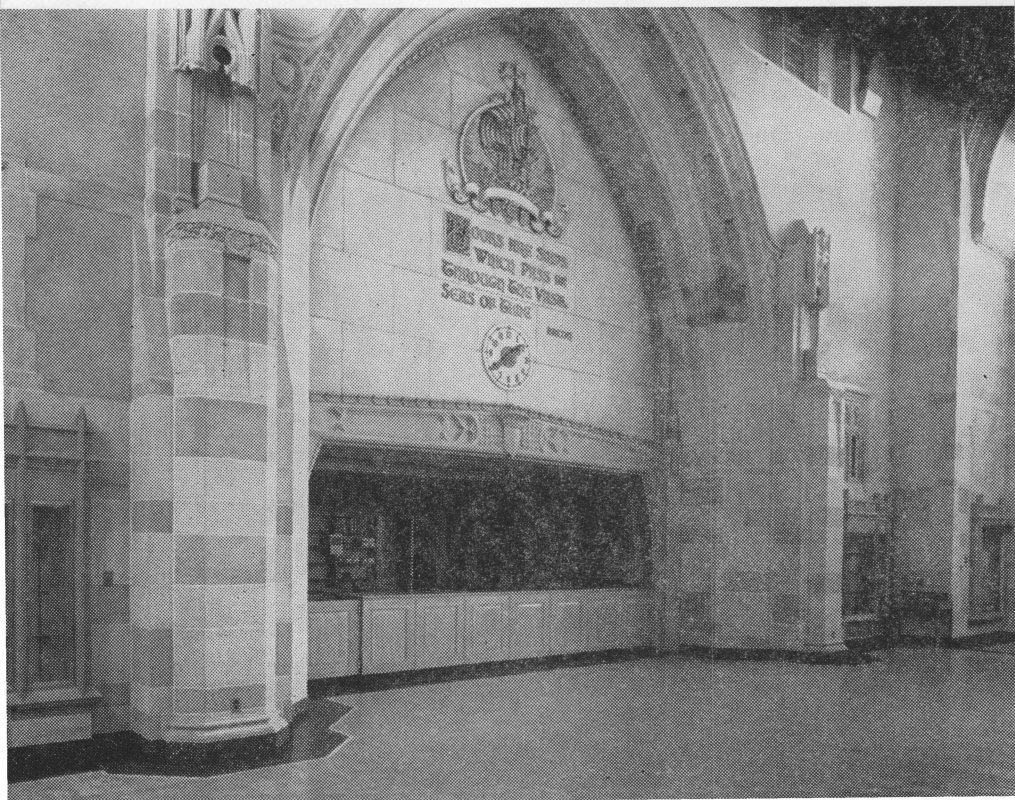
Above—Home Management Houses (left), Completed in 1952; Mary J. Booth Library (right), Completed in 1950.

Below—Lincoln and Douglas Residence Halls, Completed in 1952.





Eastern's beautiful library offers unusual facilities for study and recreation. Above—Reference room. Below—Lobby and checkout desk.



1. GENERAL INFORMATION

OBJECTIVE

The general objective of the Eastern Illinois State College is to provide persons who have chosen teaching as a life work with an integrated general and professional education.

In harmony with this objective the prospective teacher is expected:

(1) To develop scholarship in the subject matter of the chosen teaching fields and an appreciation of the acquisition of scholarship.

(2) To acquire the professional techniques and understandings basic to the development of teaching skill.

(3) To grow personally into that degree of fitness which characterizes the good teacher and which functions in making the teacher a constructive influence in the guidance of youth.

(4) To integrate the above accomplishments into an appreciation of the contributions of the past, and to emphasize the obligation of a teacher in the public schools to further the common enterprises which advance the democratic scheme of human living.

ORGANIZATION

The Eastern Illinois State College comprises the College and the Training Schools.

The Training Schools include the Elementary School of grades one to eight, inclusive, and the Eastern State High School of grades nine to twelve inclusive. The Eastern State High School is recognized as standard by the Office of the State Superintendent of Public Instruction, and is on the accredited list of the North Central Association of Colleges and Secondary Schools.

RATING

The Eastern Illinois State College is recognized with full standing as a College in the American Association of Colleges for Teacher Education. It is an accredited college in the North Central Association of Colleges and Secondary Schools. The College is an institutional member of the American Council on Education.

LOCATION

Charleston, county seat of Coles County, is located on the New York Central (Big Four) Railroad running between St. Louis and Indianapolis, and on the Nickel Plate Railroad running between St. Louis and Toledo. The main line of the Illinois Central Railroad,

extending south from Chicago, passes through Mattoon, twelve miles to the west of Charleston. The city has a population of 9,164.

Charleston is on Illinois Route 16, running west through Litchfield, Hillsboro, Pana, Shelbyville, Mattoon, and eastward to Paris and Terre Haute, Indiana. Illinois Route 130 begins at Charleston and extends south through Greenup, Newton, and Olney to Albion.

A bus line connects Charleston with Mattoon, Decatur, and Springfield to the west, and with Paris, Terre Haute, and Indianapolis to the east.

HISTORY

In order to provide more adequate facilities for the training of teachers for the public schools of the state, the General Assembly of Illinois, by an act approved May 22, 1895, established the Eastern Illinois State Normal School. By an act approved June 3, 1921, the institution was named "Eastern Illinois State Teachers College at Charleston." By an act approved July 21, 1947, the name of the college was changed to "Eastern Illinois State College."

On September 7, 1895, the five trustees provided for in the act selected a beautiful forty-acre tract of land three-quarters of a mile south of the public square of Charleston. The citizens of Charleston bought the land and presented it to the state.

December 2, 1895, the contract was made for the erection of the building at a cost of \$180,000. The corner stone was laid on the afternoon of May 27, 1896. The building and grounds were dedicated August 29, 1899, and on September 12, 1899, the institution was opened to students.

S. M. Inglis, chosen in 1898 to be the first president of the institution, died before he could assume his office. Livingston C. Lord became the first president, opening the school on September 12, 1899, and served as administrator until his death, May 15, 1933. Edson H. Taylor, Professor of Mathematics, served as acting president from May 16, 1933, until September 30, 1933. Robert G. Buzzard began service as the second president on October 1, 1933.

During the first year there were nineteen members of the faculty and two hundred and forty students. At the end of the first year, June, 1900, four students were granted the diploma of the school.

During the summers from 1901 to 1919, a six-week session was offered for teachers. From 1920 to 1932, the College offered a twelve-week summer quarter. In 1933 and 1934 a six-week summer term was offered. From 1935 to 1941 an eight-week summer term was offered. In 1942 a ten-week summer term was offered, divided into two half terms of five weeks each. In 1943 an eleven-week summer term was offered, divided into two half terms—the first term of six weeks and the second term of five weeks. A mid-spring session of six weeks was offered from 1920 to 1929. Since 1944 summer sessions of eight weeks have been offered, with certain courses available during

the first six weeks of the term from 1944 to 1947.

In 1907 the power of conferring degrees was granted to the institution by the General Assembly. Courses leading to the degree of Bachelor of Education (B.Ed.) were announced in 1920. Beginning with the class of 1944 the degree was changed to Bachelor of Science in Education (B.S. in Ed.).

Courses leading to the degree of Master of Science in Education were announced in 1951; the first Master's degrees were conferred in a Summer Commencement, July 31, 1952. The Master's degree was recognized by the North Central Association of Colleges and Secondary Schools in March, 1953.

BUILDINGS AND GROUNDS

Grounds. The grounds cover an area of one hundred and forty-seven acres including the original tract of forty acres which became the campus proper, seventy-two acres purchased in 1931 and named Lincoln Field, and several adjoining parcels purchased in 1946 and 1947.

The recent acquisitions were made in order to provide space for a twenty-five year plan of campus development. This plan is based upon a study of the probable expansion of college functions. The Lincoln Field area is to be developed mainly for physical and health education and recreation purposes. Work toward this objective was begun in 1948 with extensive re-grading of the area and the construction of an athletic field, tennis courts, softball diamonds, golf course, and other practice fields. In the recently purchased tract east of the main campus an athletic field for Eastern State High School is being constructed. Projects currently under way should, when completed, give the College superior facilities for a modern program of recreational activities.

The main campus has been graded and landscaped in harmony with the twenty-five year plan. Work on this project was begun in 1948 with the construction of new sidewalks and the laying out of parking areas.

Main Building. The main building is a three-story structure, three hundred and twenty-three feet in length, built of rough Bedford stone. It is in the Norman style, with a tower which is the neighborhood landmark. In this building are offices, the assembly room, music and art rooms, and classrooms.

Pemberton Hall. The General Assembly of 1907 appropriated \$100,000 for a woman's building and gymnasium—the first appropriation for a woman's building ever made in the State of Illinois. A fine stone structure was finished and occupied January 4, 1909. The building contains rooms for ninety-one girls, a dining room, and spacious living rooms.

High School Building. The General Assembly of 1911 appropriated \$75,000 for a training school building. The building, of smooth Bedford stone, was completed in 1913, and used for the Elementary School until April, 1953, when the building was vacated for remodeling. Upon completion of the changes it was occupied by the High School, with classrooms also assigned to college classes.

Practical Arts Building. The General Assembly of 1925 appropriated \$175,000 for a practical arts building which was completed in 1929. This building furnishes facilities for students who wish to specialize in industrial arts or home economics.

Shops are provided for practice in hand and machine woodwork, sheet metal work, general and machine metal work, electrical construction and installation, printing, mechanical drawing, woodfinishing and crafts.

The Home Economics Department is located on the second floor of this building. Here are food laboratories, sewing rooms, fitting rooms, a lecture room, a dining room, a unit kitchen, foods classroom, offices and reception room.

Charles Philip Lantz Gymnasium. In 1935 the General Assembly appropriated \$1,000,000 for buildings and improvements at the state teachers colleges. The Teachers College Board allotted \$350,000 for the construction of a Health Education building and a Science building at Charleston. The Federal Public Works Administration added \$285,750 as a building grant. The Health Education building cost approximately \$490,000. It was dedicated May 14, 1938 as the Health Education Building and rededicated on October 18, 1953 as the Charles Philip Lantz Gymnasium.

The building contains a men's gymnasium with bleacher capacity of approximately two thousand, a women's gymnasium, classrooms, quarters for the College Health Service, and rooms for corrective gymnastics, the dance, and other purposes. A kitchen which adjoins the women's gymnasium makes it possible to use the building for banquets, and a well-equipped stage with dressing rooms permits the use of the men's gymnasium as an auditorium with a combined seating capacity of three thousand persons on the main floor and the bleachers.

Science Building. An additional allotment of \$175,000 was made to provide funds for the completion of the Science building. Its total cost with equipment was approximately \$383,000. It was completed in September, 1939. It contains classrooms and laboratories for the departments of Botany, Chemistry, Geography, Physics, and Zoology.

The Mary J. Booth Library. The library building, completed in 1950, is one of the best of its kind in the Middle West. Intended as a cultural center of the College, care was taken to provide excellent facilities for study and recreational activities. Among the features are the Franklyn L. Andrews Recorded Music Room, named for a

member of the English department from 1929 until his death in 1944, the Paul Turner Sargent Art Gallery, named for the prominent Illinois artist, an alumnus of the class of 1906, and a small auditorium. The visual education service has quarters in this building. A smoking lounge is provided for the use of faculty and students. Total cost of the building and equipment was approximately \$2,200,000.

Lincoln Hall and Douglas Hall. Lincoln Hall and Douglas Hall, dormitories housing and boarding 156 students each, were opened for service in September, 1952. Lincoln Hall is used at present for women, Douglas Hall for men. These dormitories cost approximately \$1,250,000 and are partially self-liquidating.

North House and South House. North House and South House are two ranch-type houses planned for demonstrating home management as a part of the required Home Economics curriculum. Each house accommodates a director, four students, and a resident baby. Each house cost approximately \$45,000. Use began in the spring of 1952.

Elementary School. The Elementary School is currently housed in a temporary building erected in 1948 for use as a library. An addition was constructed in the summer of 1953.

Greenhouse. A four-room greenhouse contains many plants of unusual interest and serves as an adjunct to the botanical laboratories.

Additional facilities for field observation and for obtaining laboratory materials are offered by a forest plantation within five minutes walk of the laboratories.

Married Student Housing Units. Apartments for married students have been provided by the erecting and remodeling of barracks buildings from war surplus and by the establishing of a trailer camp with trailers provided out of war surplus. These furnish accommodations for approximately one hundred and twenty student families.

Cafeteria and Student Lounge. Temporary buildings were erected in 1947 to house the activities of a college cafeteria and student lounge.

Annex. A temporary frame structure containing classrooms and offices for foreign languages, psychology and college publications was erected on the south campus in 1949.

Field House. A concrete block building adjacent to Lincoln Field was completed in the fall of 1952. The building was designed for the use of the home and visiting teams during football games as well as

to provide space for a refreshment booth, ticket booth, rest room facilities, and storage for athletic equipment.

EXPENSES

Fees described below are payable on registration day of each quarter. The fees for each quarter are \$30.00 distributed as follows:

Registration Fee	-----	\$20.00
Student Activities	-----	10.00
		<hr/>
Total	-----	\$30.00

Textbook Rental. The rental for textbooks is \$5.00 each quarter, payable by each student. (See page 48.)

Tuition. Tuition is free to legal residents of Illinois. A tuition fee of \$30.00 a quarter in addition to the other fees of the College is required of students who are not legal residents of Illinois.

Matriculation Fee. Applicants for the Master's degree program are required to pay a matriculation fee of \$5.00 unless they hold a Teachers College or Military Scholarship.

Extension Course Fee. (See page 75.)

Laboratory Fees. Laboratory fees may be charged students taking certain courses to cover supplies and breakage. The amount of the fee is stated in the course description.

Chemistry Breakage Ticket. A deposit of \$3.00 is required for a breakage fee ticket in all chemistry courses except Chemistry 340. Refund is made at the end of the quarter of amount not used for actual breakage and normal usage.

Materials. Fees for materials used are paid in certain courses in art, home economics, and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses, industrial arts courses Nos. 135, 226, 336, 375, 356, 420, and to home economics courses Nos. 201 and 304.

Applied Music Fee. A fee of \$7.50 is charged for each applied music course taken by a student whose major and minors are in fields other than music. All students in the music curriculum are required to provide themselves with music materials as recommended by the instructor for study purposes.

Music Instrument Fee. A music instrument fee of \$1.00 is charged music students enrolled in class methods courses.

Towel Deposit. A towel deposit of \$2.00 is required each quarter of each student who participates in physical education, intramurals,

and intercollegiate activities. One dollar of this amount is refunded when the towel is returned at the end of the quarter.

Locker Deposit. A locker deposit of \$2.00 is required for each locker issued. This fee is refunded when the padlock is returned at the end of the year.

Bowling Fee. A fee of \$3.00 is charged students enrolled in Physical Education 182 (Bowling). Students enrolled in this course need not purchase a towel ticket.

Graduation Fee. Candidates for graduation must make application for graduation at the Registrar's Office and pay the \$10.00 graduation fee by April 1. This fee includes the cost of cap and gown rental.

Transcript Fee. The original transcript of a student's record with one carbon copy will be mailed upon request without cost to the student; a transcript fee of \$1.00 is charged for additional copies of this transcript sent later. An additional fee of \$1.00 is charged for a transcript of a student's graduate record.

Refund of Fees. There is no refund of any fees in case a student withdraws later than the first ten calendar days following registration day. Application for refund must be made to the Registrar within that period.

Penalties. *Late Registration Fee.* An extra fee of \$3.00 is charged anyone who registers after the registration dates shown in the catalogue, or who fails to pay all fees on registration day.

Change of Program. A fee of \$1.00 is charged if a change in program is made after the third day of the quarter.

Textbook Library Fine. A fee of \$1.00 is charged if the student's record in the textbook library is not clear at the close of any quarter. Grades are withheld and registration denied until the record has been cleared.

General Library Fine. A fee of fifty cents is charged if the student's record at the general library is not clear at the close of any quarter. Grades are withheld and permission to register denied until the record has been cleared.

Tests. A fee of \$1.00 per test is charged for failure of any new students to take any of the tests scheduled as a part of orientation on the days when they are scheduled.

Picture. A fee of fifty cents is charged if three prints of the student's photograph to be taken by the official photographer are not filed in the Registrar's Office within three weeks after registration. There is no charge for the photographs if they are taken within the three weeks' period.

Board and Room. Dormitories. The charge for board and room in a college dormitory, including towels, linens, and laundry privileges, is \$192.00 per quarter. Payment of the \$192.00 may be made by one of the two following plans:

1. Payment in full on the first collection date
announced by the college -----\$192.00
2. Payment in three installments on dates announced
by the college as follows:

1st installment—Room Rent for one quarter	----\$48.00
One third of board payment	---- 48.00
	\$96.00
2nd installment—One third of board payment	----\$48.00
3rd installment—One third of board payment	----\$48.00

An additional charge is made for board and room during the Freshman Orientation period.

Dormitory charges may be altered at the beginning of any school term.

Board payments may be refunded when:

1. The student withdraws from college upon the recommendation of a physician;
2. Severe illness or death in the family necessitates withdrawing;
3. The student and the family are unable to finance continuation in college.

There will be no refund of room rent. There will be no refund of board for the week in which the student withdraws. Any board paid in advance, beyond the week in which the student withdraws, will be refunded upon certification to the Business Office, by the proper authorities, that the student has officially withdrawn on a specific date.

A deposit of \$10.00 is required for a reservation at the dormitories. This deposit is held as a guarantee against the destruction or loss of college property. It is refunded if the student cancels the reservation two weeks prior to the opening of the quarter. When occupancy ceases and all property and damage are satisfactorily accounted for, the deposit will be refunded in whole or in part.

Application for a reservation in Pemberton Hall or Lincoln Hall, women's dormitories, should be made to the Director of the Hall.

Application for a reservation in Douglas Hall, the men's dormitory, should be made to the Director of Douglas Hall.

Off Campus. Room without board can be obtained in houses on the approved list for \$3.50 to \$4.00 a week for each student (two students sharing a room). Single rooms cost \$4.00 to \$5.00 a week.

Fraternity and Sorority Houses. A limited number of students secure board and room in the houses of the sororities and fraternities to which they belong.

Married Students. Application for information regarding accommodations in the trailer camp or the barracks apartments should be made to the Dean of Men.

The College Cafeteria. Meals are provided Monday through Friday at reasonable cost in the College Cafeteria. A snack bar is open mornings and afternoons on these days.

FINANCIAL AID TO STUDENTS

Scholarships. *Military Scholarships.* Any person who served in the armed forces of the United States during World War I or between September 16, 1940 and the termination of the national emergency proclaimed by the President on December 16, 1950, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service and who possesses all necessary entrance requirements may be awarded a scholarship to any of the four State colleges, Southern Illinois University, and the University of Illinois.

This Military Scholarship covers registration and student activity fees at Eastern Illinois State College but it does not cover laboratory fees, book rental, fees for supplies and materials, and other miscellaneous fees.

The Military Scholarship may be secured by presenting a photostatic copy of the discharge or separation papers to the Director of Veterans Service. A Military Scholarship cannot be used when the student is receiving aid from the Federal Government under Public Law 16, Public Law 346, or Public Law 550.

Teachers College Scholarships. These scholarships were first authorized by an act of the General Assembly in 1935, which has been amended as follows: The principal of each recognized four-year public and parochial high school shall certify to the county superintendent of schools of the county in which the high school is located the names and addresses of all students who ranked scholastically in the upper third of their graduating class and who graduated from such school during the last preceding calendar year in the order of their scholastic rank at the time of graduation. The student must signify his intention to prepare to teach in the public schools of Illinois. The county superintendent shall then certify the names of these students to the Superintendent of Public Instruction who shall issue to each student a scholarship which shall be accepted by any state normal university or teachers college if the student meets the admission requirements of the college.

The holder of a Teachers College Scholarship must make application for enrollment in the College by August 15. The scholarship is forfeited if the holder is not enrolled within ten days after the opening of the quarter. The student must present the certificate to the Registrar on registration day. Book rent, laboratory fees, and fees

for supplies and materials are not covered by the scholarship. The scholarship entitles the holder to gratuitous instruction for a period of four school years (a school year being interpreted as one calendar year.)

Lindly Scholarships. Holders of valid Lindly Scholarships, issued before 1936 and received at the time of graduation from the eighth grade, pay only \$10.00 for the student activity fee and the book rent of \$5.00. The certificate must be presented on registration day.

The Livingston C. Lord Memorial Scholarship. The Alumni Association of the College has established a scholarship fund in memory of Livingston C. Lord, President of the College, 1899-1933.

The proceeds from this fund are used for scholarships which are awarded annually at Commencement to one or more junior students whose character, scholarship, and skill in teaching promise service of distinction in the field of education. One award was made in 1953. It went to Virginia Alice Carwell.

Illinois Congress of Parents and Teachers Scholarship. The Illinois Congress of Parents and Teachers gives \$200.00 each year to the College for scholarships which are awarded to students selected by the faculty committee on scholarships. The qualifications for eligibility are: high scholastic standing, good health, the need of financial aid, graduation from a high school having a parent-teacher association and membership in the Illinois Congress of Parents and Teachers. The applicant must signify intention to teach. Application for the scholarship should be made to the Dean of Women.

Pi Omega Pi Scholarship. In order to further interest in scholarship the Alpha Chi Chapter of Pi Omega Pi awards annually ten dollars (\$10.00) to the freshman Business Education major who at the end of the winter quarter has attained the highest general scholastic average. In order to qualify for the award the student shall also have attained at least an average of B (2.0) in a prescribed Business Education curriculum and shall hold active membership in the Business Club. In cases where candidates present equivalent scholastic ratings, preference will be given the candidate who indicates the greatest promise and interest in business education; such decision is made by members of the Chapter.

Paul Turner Sargent Memorial Scholarship. Kappa Pi sponsors a scholarship in memory of Paul Turner Sargent, landscape painter and alumnus of the College. An award of thirty dollars (\$30.00) is made annually to a high school senior for study in art at this institution during the following school year.

The Winnie Davis Neely Memorial Award. Sigma Tau Delta has established a scholarship fund in memory of Winnie Davis Neely, a member of the English department, 1934-1952. An award is made annually to the college student who submits the best manuscript in the literary contest sponsored by *Eastern State News* and Sigma Tau Delta. The award for 1953-54 was made to Virginia Carwell.

Other Scholarships. Limited funds for scholarships are available through gifts from alumni and other citizens. All awards from these sources are made by the Faculty Committee on Scholarships, subject to the following policy:

1. The amount of the award shall not exceed the amount of fees payable by the student.
2. Any department of the College may recommend students who display special talent in their area of training, and who need help.
3. No freshman may be considered whose four-year high school grade average is below C, nor any student of the College who is placed on probation.

Loan Funds. *The Student Loan Fund.* The Student Loan Fund of the Eastern Illinois State College makes it possible for a student in the junior or senior year to borrow, at a low rate of interest on a personal note, a sum of money that will help him to remain in college and complete the course. A grade point average of 1.5 (half way between C and B) is required.

Under the will of the late Dr. W. D. Morgan, of Charleston, there is given to the Student Loan Fund the annual income from about six thousand dollars, which is one-seventh of the estate. An additional amount will be received at the death of certain heirs.

In 1934 there was left to the College by the will of the late John L. Whisnand, of Charleston, upon the death of his widow, a portion of his estate as an endowment, the income from the endowment to be available for financial assistance to deserving students. The amount in trust with The Charleston National Bank as trustee is \$5,765.91.

The Adelia Carothers Fund. A fund known as "The Adelia Carothers Fund" has been established by the late Mrs. Ida Carothers Merriam and Mr. Charles G. Carothers in memory of their mother. This fund is to be loaned to young women students of high character and scholarship during the last half of their course.

The Kate Booker Stapp Fund. This fund is available to women students in teaching curricula who are widows (or whose husbands are incapacitated) with at least one child under the age of eighteen. The fund was established in 1948 by a gift of \$400 from Miss Helen Stapp in honor of her mother.

The Alexander Briggs Loan Fund. This fund was established in 1949 by a gift of \$500 from Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the Main Building of the College, to be used for loans to students, preferably in mathematics.

Student Employment. Students desiring part time employment should apply to the Dean of Men or the Dean of Women. Students who have part time employment are expected to maintain a grade of C or higher in every subject.

Veterans. The College is cooperating with the Veterans Administration in the programs for the education and rehabilitation of veterans under Public Law 346 (the G. I. Bill), Public Law 16 (Vocational Rehabilitation Act) and Public Law 550 (Korean G. I. Bill).

Under Public Law 346 eligible veterans are entitled to a maximum of forty-eight months of training. Subsistence allowances are \$75.00, \$105.00 or \$120.00 a month. The government pays all fees and for certain supplies, not to exceed \$500.00 a school year.

Varying benefits for each veteran are furnished under Public Law 16.

Under Public Law 550 veterans receive one and one-half days of training for each day of service after June 27, 1950, the total not to exceed thirty-six months. Subsistence allowances are \$110.00, \$135.00, or \$160.00 a month. Tuition, fees, books and supplies are not paid for by the government.

Educational Benefit Act. The Illinois Educational Benefit Act of 1935 has been amended to read as follows:

Section 1. It is the duty of the Department of Registration and Education to provide, insofar as moneys are appropriated to it for such purposes, for matriculation and tuition fees, board, room rent, books and supplies for the use and benefit of children, not under sixteen and not over twenty-two years of age, who have for twelve months prior to their application for these benefits had their domicile in the State of Illinois, of World War I veterans who were killed in action or who died between April 6, 1917, and July 2, 1921, and of World War II veterans who were killed in action or died after December 6, 1941 and before the cessation of hostilities of such war, as a result of service in the Army, Navy, or Marine Corps of the United States, or from other causes in World War I or World War II; which orphans are attending or may attend a state educational institution of a secondary, or college grade, a business college, or any high school, vocational training school or other educational institution in this State where courses of instruction are provided in subjects which would tend to enable such orphans to engage in any useful trade, occupation or profession. Said children shall be admitted to state institutions of secondary or college grade free of tuition. **Provided however,** that not more than one hundred and fifty dollars (\$150) shall be paid for any one child for any one school year.

Application blanks to benefit from this act may be obtained from Miss Vera Mae Binks, Director of the Department of Registration and Education, Springfield, Illinois.

SERVICES

Housing Bureau. The College maintains a Housing Bureau to assist students in finding rooms. Householders who have rooms to rent to students are registered with the Bureau; the rooms are inspected, and when approved are added to the list of available rooms. Approved rooming houses display cards with such announcement.

Students are required to live in approved houses except when special permission to room elsewhere has been secured from the Dean of Men or the Dean of Women. It is to be understood that when a student rents a room in a dormitory or an approved house he or she agrees to comply with the existing rules and regulations.

Health Service. The College Health Service maintains offices and

examination rooms in the Charles Philip Lantz Gymnasium. A college physician and two nurses are employed. This service supervises the annual physical examination of students and the general health condition of the college community as recommended by the American Association of Colleges for Teacher Education.

Students receive seven days of free hospital care upon recommendation of the Health Service. The Hospitalization Board, composed of faculty members and elected students, assists in the determination of policy for the hospitalization plan.

The Health Council is a committee of faculty members whose function it is to consider problems related to the health of students, including the college environment in its relationship to student health, and to consider ways in which the College may aid public schools in implementing the Basic Plan for Student Health and Health Education as it was formulated by the Illinois Joint Committee on School Health. The following persons comprised the Council in 1953-54: Carolyn Gilbert Ryle, Chairman; Hobart F. Heller, Dean; Rudolph D. Anfinson, Dean of Men; Dr. Lauro Montemayor, College Physician; Mr. Cavins, Mr. Cravey, Mr. Damann, Mr. Elmore, Miss Haight, Mr. Kluge, Miss Marks, Mr. Masley, Mr. Pisaro, Mr. Riebe.

Reading Clinic. The Reading Clinic is located on the ground floor of Pemberton Hall. The services of the Reading Clinic are available to all regularly enrolled students. Non-credit courses designed to improve reading speed, comprehension, and general study habits are offered each quarter of the academic year. Application for admission to one of the programs should be made early in the quarter.

In addition to the college reading program, some children, usually selected from the campus elementary school, are accepted for corrective work in reading. Junior, senior, and graduate students who are taking advanced work in reading obtain practical experience by working with these children under supervision.

The Speech and Hearing Clinic. The Speech and Hearing Clinic is housed in a suite of rooms in Pemberton Hall. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvement of speech disorders. The services are available without charge to college students, training school pupils, and children and adults in east central Illinois. Junior and senior students in the courses in speech and hearing obtain their required clinical practice by working with these cases under supervision.

Library. The College Library offers unusual facilities for study and recreation. About 80,000 books and over 600 current magazines are available for the use of students and faculty; in addition, there are approximately 14,000 bound magazines, and extensive picture and pamphlet collections. A Browsing Room for general reading is provided; the Music Listening Room, with its store of classical and popular records, is open on regular schedule to students; and there are frequent exhibitions of paintings and craft work in the Art Gal-

lery. The Audio-Visual Department is housed in the Library, as well as the Library Science Department. An orientation course in the use of the library (Library Science 120) is required of all entering freshmen.

Separate high school and elementary school libraries are operated as part of the College library system. Trained librarians are in charge of these collections, which contain about 12,000 books and 50 or more current periodicals. All materials have been carefully selected to meet the needs of the students in the training schools, and prospective teachers are urged to familiarize themselves with the two libraries.

Audio-Visual Center. Films, educational disc recordings, filmstrips, tape recordings and slides are circulated from the Audio-Visual Center, which makes available film strips, slide and opaque projection equipment, public address facilities, microphones, amplifiers, tape recorders, playbacks, and phonographs. A library of frequently used educational materials is maintained. Consultive service is encouraged and a staff of trained projectionists and equipment operators is available for classroom, academic, and allied activities.

Textbook Library. Basic textbooks for college courses are loaned to students through the Textbook Library. The book rent is paid at the time of registration in consideration of this service. Laboratory manuals, special notebooks, and other materials not classified as basic textbooks must be purchased by the student as needed.

Textbooks must be returned in satisfactory condition by a specified time at the end of each quarter, and damage other than that of ordinary wear must be paid for by the student. Students who note damage in textbooks issued to them must report such condition to the manager of the Textbook Library within the first two weeks or be held liable for the damage. Grades are withheld, permission to register denied, and a fine of \$1.00 is imposed if the student's record in this library is not clear.

Entertainment Course. The College Entertainment Board presents a series of concerts each year to which students are admitted by presentation of the recreation tickets. Tickets for the series may be purchased by anyone interested.

Concerts presented in 1953-54 were:

October 29—"Il Trovatore" by the Charles L. Wagner Opera Company.

November 24—Louis Sudler, baritone.

March 24—"Pygmalion" by the Dublin Players.

May 4—Mildred Dilling, harpist and Charlene Dilling Brewer, violinist.

Bureau of Teacher Placement. The Bureau of Teacher Placement serves the public school officials of Illinois by assisting them to

secure well-qualified teachers. It serves the student and alumni by assisting them to secure positions.

The Bureau of Teacher Placement furnishes to prospective employers information needed in considering applicants. This information is in pamphlet form and consists of the applicant's photograph, personal data, scholastic record, student-teaching record, high-school record, experience record, extra-curricular activity record, and references.

The Bureau maintains a follow-up service through a program of visits and by means of reports from teachers themselves as well as from supervising officers of schools in which graduates have been placed.

The services of the Bureau are free to undergraduates who have been enrolled in the College for at least one year and to graduate students who have attended for one term. Registration with the Bureau is prerequisite to graduation. Alumni may re-register with the Bureau with the payment of a \$1.00 fee.

Assembly. College assembly is held twice each month. The program is planned by a board chosen by the Student Association.

Student Lounge. The student lounge is under the supervision of the Student Association. It is located in a temporary building adjoining the College cafeteria.

STUDENT ACTIVITIES

Government and Regulations. In the belief that the extra-curricular activities of a college may help to promote desirable personal growth, such activities are encouraged. Activities that increase interest in departmental or subject-matter fields, in music, in dramatics and public speaking, in journalism, in organized social life, in current affairs, and in recreation and athletics form the college program.

All students are automatically members of the Student Association, which is governed by the Student Senate made up of elected officers and committee chairmen and by the Student Assembly composed of the Senate and all committee members.

Extra-curricular activities and the Student Health Service are financed by a Student Activities Fee paid at the time of registration. This fee covers admission to the numbers of the Entertainment Course, to athletic events, to the musical programs, to college debates and oratorical contests, and entitles the student to a copy of the weekly paper, *The Eastern State News*, and if in attendance the three quarters of the regular year, to a copy of the college annual, *The Warbler*. This fee is divided among the various activities by an Apportionment Board. The major activities are in turn governed by boards composed of faculty and students, with student representation in majority. The boards for 1953-54 with their chairmen are as follows:

BOARD	CHAIRMAN
Apportionment	D. A. Rothschild
Assembly Board	Charles H. Coleman
Men's Athletics	James M. Thompson
Women's Sports	Winifred Bally
Entertainment	Harris E. Phipps
Forensics and Dramatics	J. Glenn Ross
Health and Hospitalization ..	Mary Ellen Thompson
Music Activities	Leo J. Dvorak
Student Publications	Francis W. Palmer

Each organization receiving funds from the Student Activities Fee presents an annual accounting of receipts and disbursements through the President of the College to the State Teachers College Board.

The following regulations govern student activities:

1. No extra-curricular organization, club, sorority, or fraternity may be organized without recognition by the faculty committee on student organization and the Student Association.
2. All organizations must file a copy of their constitution and by-laws with the faculty committee.
3. Any organization whose activities are suspended by the President of the College must apply to the faculty committee for reinstatement.
4. No organization may have a business or social meeting or a rehearsal on the campus without a faculty adviser present.
5. All officers must maintain an academic standing of 1.6.
6. All organizations must file with the Director of Student Activities a list of all officers as soon as they are elected.
7. A student who is on probation may participate in extra-curricular activities only with the permission of the Dean.

Pan-hellenic Council is composed of two elected representatives from each social sorority. The purpose of the Council is to deal with problems confronting the sororities and to establish and administer governing rules.

Interfraternity Council is composed of three elected representatives from each social fraternity. The purpose of the Council is to handle problems and to govern the operation of the fraternities.

Publications. An eight-to-ten-page newspaper, *The Eastern State News* (originally *The Normal School News*, then successively *The Teachers College News* and *The Eastern Teachers News*) is published by a student staff with a faculty adviser. It appears each Wednesday except after holidays and final examinations. Special issues mark special occasions or events. Publication during summer school is usually maintained on a modified schedule. Staff membership is open to all students. The editor, business manager, and advertising manager are appointed by the Board of Student Publications, upon written

application. Staff organization is then completed by the three appointed members. Most staff members find it advisable to enroll in journalism courses offered by the Department of English. Since 1930, when it became a member of the Columbia Scholastic Press Association, the *News* has stood high among college newspapers of its class throughout the United States. It has maintained an unbroken record of "first place" in the Columbia rating, and in 1935 and onward from 1937 it has won the highest distinction of Medalist. Special All-Columbian awards, given in seven fields ranging from advertising to editorials, have been received annually since 1936, with the exception of one year (1950). In 1948, 1949, 1951, and 1953 the award was on editorials. In the rating of the Associated Collegiate Press (formerly a part of the National Scholastic Press Association), the *News* received its 12th All-American award in 1953. *The Eastern State News* also holds membership in the Illinois College Press Association and the Illinois Press Association.

The college yearbook, *The Warbler*, is issued annually as a pictorial and achievement record of the college. A student editorial staff, supervised by a faculty adviser, is responsible for the publication. Staff membership is open to any student in the college. The 1953 *Warbler* received a "first-class" rating by the Associated Collegiate Press, and a "first-place" rating by the Columbia Scholastic Press Association.

Social Activities. Student social activities are under the general supervision of the Director of Student Activities in cooperation with the Dean of Women and the Dean of Men. The Group Coordination committee of the Student Association is in charge of preparing the calendar of social events each year, which involves the scheduling of and planning of all campus social functions except those arranged by departmental clubs.

Varsity Club. Membership is composed of winners of varsity monograms achieved through intercollegiate athletic competition.

The purpose of this organization is: to promote an attitude of sportsmanship, cooperation, and brotherhood; promote school spirit among athletes and the student body; and encourage a spirit of good sportsmanship among both competitors and spectators.

The club sponsors numerous activities throughout the school year.

Women's Athletic Association. The purpose of this association is to advance the standards of sportsmanship and promote the spirit of play. It is organized into clubs, such as hockey, volleyball, badminton, bowling, basketball, softball, archery, golf, tennis, social dancing, and the modern dance. Any woman is eligible for club membership and the W.A.A. letter or sweater is awarded to those who receive a specified number of credits. The organization sponsors co-educational recreation activities, "Sport Days" with other colleges of the state, and a spring dance concert.

Speech Activities. Dramatics. The dramatics organization is known as "The Players." Its leading activities include the annual presentation of three major productions. Tryouts for parts in most of these plays are open to all students. A system of regular meetings deals practically with the activities connected with the amateur stage and permits student production of a series of one-act plays. Accumulated participation in dramatics elects to membership in Illinois Epsilon Chapter of Theta Alpha Phi, national honorary dramatics society.

The auditorium in the Health Education Building has a large stage with modern equipment.

Forensics. Intercollegiate forensic affiliations include Pi Kappa Delta, a national honorary society, the Illinois Intercollegiate Debate League, and the Illinois Intercollegiate Oratorical Association.

Eastern's Seventeenth Annual Debate Tournament was held on the campus February 6, 1954. On March 30, 1954, Eastern was host to the international debaters from India.

Off-campus participation in forensics for the year included tournaments at Bradley University, Illinois State Normal University, DePauw University, Northern Illinois State Teachers College, University of Wisconsin, Navy Pier Division of the University of Illinois, Southern Illinois University (Pi Kappa Delta Regional Tournament), Bradley University (State Debate Tournament), and Augustana College (Illinois Intercollegiate Oratorical Association Tournament).

The College was represented in the student legislative assembly held in the State House in Springfield.

During the year student speakers had various opportunities to appear before community organizations to discuss contemporary problems.

Radio. Student speakers may belong to the Radio Guild and regularly participate in the radio programs which the College began sponsoring in 1946-47. These programs are produced daily in the College studio and are broadcast by remote control over Station WLBH in Mattoon.

Music Activities. A variety of music organizations provides opportunities for musical growth through enjoyable activities which in turn contribute richly to the life of the College. Instrumental organizations include a uniformed marching band which functions during the football season, a concert band of complete instrumentation, and an orchestra. The major choral organizations are the College Chorus and the Cecilian Singers. Small vocal and instrumental ensembles afford additional opportunities for students to study and perform music.

The music organizations provide music for various programs throughout the year, uniting to present "Messiah" at Christmas in alternate years. A standard opera with complete score and authentic setting is presented at periodic intervals. The College Chorus, the

Cecilian Singers, the Band, the Orchestra, and selected ensembles annually present public concerts and represent the College in concert tours through eastern and central Illinois. Other projects designed to extend the musical experiences of the college student are: Marching Band Festival, Choral Clinic, Chamber Music Clinic, Workshop in Elementary Music, and the Summer Music Camp. These are designed for joint participation and observation by off-campus as well as campus personnel interested in the improvement of teacher-training in music.

INTERCOLLEGIATE ATHLETICS

The college maintains a program of intercollegiate athletics as an integral and coordinated part of the general and professional education program. Through the medium of intercollegiate competition opportunities are presented for the individual development of traits such as sportsmanship, fair play, honesty, fellowship, understanding, and adherence to democratic ideals, to the end that personal growth and character necessary in good teaching will result. In addition, as a teacher education institution, the acquisition of certain professional techniques and skills basic to the development of sound teaching practice as well as individual recreational competence are objectives of the athletic program. In furtherance of these purposes, the college is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics, and the National Collegiate Athletic Association.

The College maintains teams for intercollegiate competition in football, basketball, baseball, track, cross country, wrestling, tennis, and golf. A well-organized and integrated program of intramural athletics in fifteen different activities is provided. The College adheres to the policies of the North Central Association of Colleges and Secondary Schools concerning intercollegiate athletics.

STUDENT ORGANIZATIONS

Student Association. *The Student Association* is the student governing body and is responsible for the supervision of all student activities, the regulation of student conduct, the proper use of student activity fees, and the organization of all-school social events. Members are elected at large and membership is apportioned from the major campus groups and unaffiliated students. Officers are elected by the student body as a whole. There are nine members in the Senate and twenty-seven members in the Assembly.

All-Student Organizations. *Independent Student Union.* This is an organization of students who are not affiliated with social fraternities or sororities. Its purpose is to foster college loyalty and democratic student government. It is affiliated with the National Independent Student Association.

Departmental Clubs. *A.C.E.*, a student branch of the National Association of Childhood Education, the purpose of which is to promote the education of young children. Students in the elementary education curriculum are eligible for membership.

Amateur Radio Club, a club to increase interest in the field of radio electronics.

American Chemical Society (Eastern Illinois Student Affiliate). An organization chartered by the American Chemical Society during the spring of 1951 and open primarily to chemistry and chemical engineering majors. The parent group is the world's largest organization devoted to a single science. Membership offers opportunity to develop a professional spirit and a broader chemical background through participation in meetings, field trips and other projects related to chemistry.

Art Club, an organization of students interested in art. The club sponsors an annual trip to an important exhibition, and recreational and developmental activities for its members.

Business Club, organized to promote the professional growth, recreation, and general welfare of students in the Business Education department.

The Dance Club is an extra-curricular activity under the sponsorship of Women's Athletic Association. It is composed of students who have shown ability and interest in modern dance. An annual spring concert is presented. Students manage all production phases, including costumes, lighting, scenery, and make-up.

Eastern Puppeteers, an organization formed to promote interest and to develop skill in the presentation of marionette shows; open to all interested students. The club gives on-campus performances and goes on tour.

English Club, sponsored by the Department of English to encourage and attempt creative work and writing. Joint meetings are held with the Sigma Tau Delta fraternity. The club functions as a voice for those interested in English.

The Forum, a discussion group of faculty and students interested in current economic, political and social problems.

French Club, organized for improving conversation in French and the study of French life.

Home Economics Club, an organization for young women enrolled in home economics with its primary objective to further the professional and social life of its members.

Industrial Arts Club, organized for the professional and social advancement of young men expecting to teach in this field, and

serving as campus hosts for the Illinois Twenty-first District Round Table of Industrial Arts Teachers which comes to the campus four times a year.

Mathematics Club, formed by students desiring to discuss phases of mathematics not included in regular courses in that subject.

Music Education Club, a joint club for students, faculty, and others interested in music education. The activities of the organization are planned to promote professional interest in the field and to give a purposeful perspective to those planning to teach.

Physical Education Club for Women was organized to stimulate a wide and intelligent interest in health, physical education and recreation and to foster greater professional fellowship among majors, minors, faculty and alumni interested in this field.

Physics Club, an organization of students having a special interest in physics.

The Players, open to students interested in the technique of dramatic art. Joint meetings are held with Theta Alpha Phi, and the club functions as preliminary training for membership in the fraternity.

Sigma Delta, a local journalistic club formed in 1930 to stimulate the expression of student opinion through the college newspaper. Membership is open to all students interested in journalism. Faculty and townspeople are welcome to attend meetings during which special speakers are presented.

Spanish Honorary Society, a local society to promote interest in the Spanish language and to foster closer relations with Spanish America.

Speakers Club, open to students interested in speech activities, such as debating, oratory, extempore speaking, and discussion. Joint meetings are held with the Sigma Chapter of Pi Kappa Delta, national honorary forensic fraternity, to which qualified members of "The Speakers" are elected on the basis of intercollegiate participation.

Religious Clubs. *Campus Fellowship Organization*, an interdenominational organization of students.

Gamma Delta, an international organization of Lutheran students.

Newman Club, a club of Catholic culture and fellowship. It is organized in order to deepen the spiritual and enrich the temporal lives of its members through a balanced program of religious, intellectual, and social activities; to bring the students of Catholic faith together; and to assist the College and its students whenever possible.

Wesley Fellowship, an organization open to students who are

members of, or who prefer, the Methodist Church. Meetings are devoted to cultural and social programs.

Social Fraternities. *Phi Sigma Epsilon*, Delta Chapter of this national social fraternity in teachers colleges, was installed March 4, 1930. The fraternity selects its members according to their scholarship, their social activities, and their general cooperation in promoting college life.

Sigma Tau Gamma, Alpha Alpha Chapter of this national social fraternity in teachers colleges, was installed in November, 1941. From 1929 to 1941 it existed as *Fidelis*, a local fraternity. The members are selected according to their prominence in worthy school enterprises, and their social, scholastic, and athletic aptitudes.

Kappa Sigma Kappa, Tau Chapter of this national social fraternity in state colleges and universities, was installed February 27, 1947. Organized in November, 1946, the group originally existed as *Mu Gamma*, a local fraternity. Members are chosen according to scholarship, leadership, and participation in school activities.

Sigma Pi, Beta Gamma Chapter, a national social fraternity, was installed June 10, 1949, with the members of *Chi Rho*, a local fraternity, initiated as charter members. Membership is limited to approximately forty men who are chosen according to participation in college activities, for leadership, social abilities, and scholarship.

Tau Kappa Epsilon, Gamma Omega Chapter, a national social fraternity, was installed March 16, 1952. The group was established on December 15, 1950, as *Epsilon Iota Sigma*, a local fraternity. Scholarship, leadership, school service, and social activities determine the selection of its members.

Social Sororities. *Sigma Sigma Sigma*, Alpha Psi Chapter, a national sorority, was installed February 28, 1942, with the members of *Alpha Tau Nu*, a local sorority, initiated as chapter members. There is a strong alumnae group in an effectively organized chapter. The chapter maintains a sorority house. Members are chosen for promise and achievement in scholarship, moral integrity, unselfishness, social grace, leadership, and intelligent participation in school activities.

Delta Sigma Epsilon, Alpha Nu Chapter, a national sorority, was installed March 13, 1943, with the members of *Chi Delta Gamma*, a local sorority, initiated as charter members. The chapter has a sorority house occupied by the undergraduates and used as headquarters for the alumnae. It has a large, strong alumnae group and an active membership of about twenty-five. Members are chosen for their scholastic ability, leadership, and talent for living.

Delta Zeta, Gamma Nu Chapter, a national social sorority, was

installed March, 1949, with the members of Phi Beta, a local sorority, initiated as charter members. The chapter maintains a sorority house occupied by the undergraduates and used as headquarters for their activities and those of the alumnae. There is a strong alumnae group organized in Charleston. Members are chosen for their promise in the development of scholarship, character, social grace, and loyal associations.

National Honorary Fraternities. *Kappa Delta Pi*, Beta Psi Chapter of Kappa Delta Pi, an international honor society in education, was installed January 2, 1931. Students are elected to membership primarily upon the basis of high scholarship, good character, and promise of success in teaching. Election to membership is held twice each year.

Sigma Tau Delta. Upsilon Gamma Chapter of Sigma Tau Delta, a national professional English fraternity, was installed February 15, 1932. Only honor students in English in the senior college are eligible and the number initiated is limited by the national constitution. Associate and local members are chosen from among students who show marked ability in written expression.

Epsilon Pi Tau. Iota Chapter of Epsilon Pi Tau, a national honorary fraternity in industrial arts, was installed May 25, 1933. Membership is limited to students with high scholarship in industrial arts and with personal qualifications that promise success in teaching.

Kappa Mu Epsilon. Illinois Beta Chapter of Kappa Mu Epsilon a national professional fraternity in mathematics, was installed April 11, 1935. This fraternity promotes interest and stimulates scholastic achievement in mathematics, and works in close cooperation with the Mathematics Club.

Theta Alpha Phi. Illinois Epsilon Chapter of Theta Alpha Phi, a national honorary fraternity in dramatics, was installed June 6, 1938. Membership in this society is awarded on the basis of merit in dramatics. The purposes of the organization are to increase interest, stimulate creativeness, and foster artistic achievement in all of the allied arts and crafts of the theater. In pursuance of these ends, the fraternity cooperates with "The Players."

Kappa Pi. Chi Chapter of Kappa Pi, a national honorary art fraternity, was installed May 15, 1939. Men and women in the senior college who meet the national requirements for scholarship in art and personal qualifications are eligible for election. The fraternity cooperates with the Art Club in department activities.

Pi Kappa Delta. Illinois Sigma Chapter of Pi Kappa Delta, a national honorary fraternity in forensics, was installed May 4, 1940. Membership in this society is awarded on the basis of creditable participation in intercollegiate debate, oratory, and extempore speaking. Degrees of distinction, honor and proficiency are conferred on the

basis of merit and achievement. The fraternity works in conjunction with "The Speakers."

Pi Omega Pi. Alpha Chi Chapter of Pi Omega Pi, a national honorary fraternity in business education, was installed May 26, 1940. The purposes of this fraternity are to promote the general advancement of business education, encourage and foster high ethical standards in business and professional life, develop wholesome fellowship, and teach the ideal of service as the basis of all worthy enterprise. This organization cooperates with the activities of the Business Club.

Gamma Theta Upsilon. Rho Chapter of Gamma Theta Upsilon, a national professional geography fraternity, was installed July 9, 1940. The purpose is to promote geography in education. Only geography majors and minors of high scholarship are elected to membership. The fraternity co-operates with the Geography Club.

Pi Delta Epsilon. The Eastern Illinois State College Chapter of Pi Delta Epsilon, a national honorary fraternity in journalism, was installed May 18, 1949. Membership is limited to students who have served one year on the staff of a college student publication. Purpose of the organization is to promote high standards of journalism.

Phi Sigma Mu. Theta Chapter of Phi Sigma Mu, a national honorary fraternity in music education, was installed November 4, 1950. Membership is limited to students who show promise in the field of teaching and outstanding scholarship in music. The aim of the fraternity is to promote education in music and a professional attitude among its members.

Kappa Omicron Phi. Alpha Theta Chapter of Kappa Omicron Phi, a national honorary professional fraternity in home economics, was installed May 29, 1950. The purpose of the organization is to further the best interests and stimulate scholastic achievement in home economics. The fraternity cooperates with the activities of the Home Economics Club.

Sigma Alpha Eta. Alpha Alpha Chapter of Sigma Alpha Eta, a national honorary society in speech and hearing disorders, was installed on February 8, 1953. Junior and senior students who are in the upper third of their classes and who are training for certification on state or national levels are eligible for key membership. Any undergraduate student who demonstrates interest in the area is eligible for associate membership. The purposes of the organization are to encourage professional growth by providing learning experiences not offered in the formal course structure and to provide situations in which the students and members of allied fields may work together as a team to advance the profession as a whole.

Service Fraternities. *Alpha Phi Omega.* Delta Psi Chapter of this national service fraternity was installed on March 30, 1947. The stated purposes of this fraternity are leadership, friendship, and serv-

ice. Membership is based upon experience in the Boy Scouts of America and adherence to the Scout Oath and Law. Service projects are designed to promote the welfare of the College, the community, the state, and the nation.

ALUMNI ORGANIZATIONS

The Alumni Association. The officers of the Alumni Association for 1953-54 are Harold Marker, '34, 926 Second, Charleston, President; Charles Crites, '41, 1113 Lafayette, Mattoon, Vice-President; Mary Linder, '15, 904 Sixth, Charleston, Secretary-Treasurer.

There is an Executive Council of the Alumni Association composed of the officers and six other members of the Association elected for three year terms. Other members are: Harrison Read, '50, and Mrs. William Reat (Betty Heise), '47, terms ending in 1954; Ogden Brainard, '25, and Mrs. Fred Frommel (Ruth Feagan), '25, terms ending in 1955; Maurice Foreman, '27, and Roscoe Hampton, '18, terms ending in 1956.

Elections are held at Homecoming in the fall.

Joint Alumni Council. The alumni organizations of the five state colleges and universities for teacher education in Illinois have joined to form the Joint Alumni Council. Each institution is represented by its president, its alumni organization president, two representatives of the alumni organization, and the institution's alumni services director. Eastern's Alumni Association representatives for 1953-54 are Maurice Foreman and Roscoe Hampton, who are also members of the Executive Council of the Alumni Association. Ferdinand Homann, '09, is an alternate to the Joint Alumni Council. Harold Marker is a member of the Executive Committee of the Joint Alumni Council for 1954-55.

Associated Eastern State Clubs. Alumni have formed organizations called Eastern State Clubs in several counties of Illinois. These clubs meet annually or oftener with programs designed to keep graduates and former students in touch with each other and with the College. They are instrumental in furthering a mutual service program for the College and its alumni.

On Alumni Day in May or June, officers of these clubs meet on the campus and choose an Executive Council composed of ten persons to direct the affairs of the clubs, called Associated Eastern State Clubs.

The president of the Alumni Association automatically becomes a member of the Council. The college public relations and alumni services director, Stanley Elam, is an ex-officio member. Other Council members are elected for two-year terms.

In 1947 the Associated Clubs and the Alumni Association issued the first *Eastern Alumnus*, a quarterly magazine mailed to subscribers

all over the United States and several foreign countries. An effort is made to send at least one copy of the *Alumnus* to each graduate during the course of one year, whether or not he is a subscriber. Subscription rates (which include membership in the Alumni Association) are \$1.50 for one year, \$2.25 for two years, and \$3.00 for three years. Renewals are at the rate of \$1.00 for one year, \$1.75 for two years, and \$2.25 for three years.

Area Advisory Council. The Eastern Illinois State College Area Advisory Council was organized in the spring of 1951 as a project of the Alumni Association. The purpose of this group is to study the policies and functions of the College with the higher educational needs of the area in mind, interpret these needs both to the College and the area, and if it sees fit, make recommendations to the College administration, the Teachers College Board, and the Illinois General Assembly.

There are some 85 members on the Advisory Council, representing 26 different counties in the area served by the College. They include both alumni and non-alumni. Their vocations and interests are quite varied.

Officers are: President, Roe M. Wright of Robinson; First Vice-President, Truman May, Edwardsville; Second Vice-President, Leo Bennett, Windsor; Secretary and Treasurer, Mrs. Ronald King, Charleston; Executive Committeemen, Central Division, L. L. Krantz, Mattoon, and Ray Lane, Toledo; Western Division, Helen Stapp, Decatur, and Harry F. Truitt, Vandalia; Northeastern Division, Don Cavins, Paris, and Wayne Feldman, Danville; Southern Division, Miles E. Mills, Effingham, and H. J. Snobarger, Olney.

The Eastern Illinois State College Foundation. In 1953 the Eastern Alumni Association sponsored the establishment of The Eastern Illinois State College Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes. The objects of the Foundation are to assist in developing and increasing the facilities of the college by encouraging gifts of money, property, works of art, historical papers and documents, museum specimens and other material having educational, artistic, or historical value. The Foundation will hold and administer such gifts with the primary object of serving purposes other than those for which the State of Illinois ordinarily makes sufficient appropriations.

The president of the College, the president of the State Teachers College Board, and the president of the Eastern Alumni Association are automatically honorary members of the Foundation. The regular members include 100 alumni of the College. The board of directors consists of nine persons, who are—Robert Guy Buzzard, President of the College, Harold Marker, President of the Alumni Association, and Lewis Walker, President of the Teachers College Board, all ex-officio members, and the following elected members:

A. L. Riche, President; Lewis Linder, Vice-President; Stanley Elam, Secretary-Executive Director; Ruby Harris, Esther McCrory, and Newton Tarble. Raymond Gregg, Business Manager of the College, is Treasurer of the Foundation.

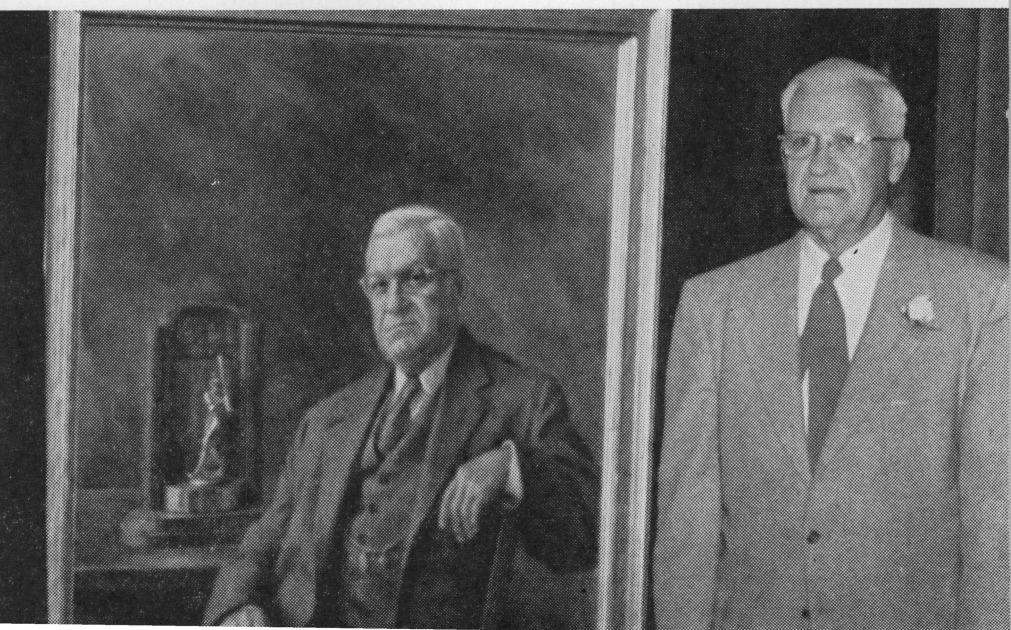
Above—Faculty, staff, alumni and students presented the portrait of President R. G. Buzzard to the college on the anniversary of his twentieth year as president, October 1, 1953. Richard E. Huff, painter of the portrait, is at right.

Below—When the Health Education Building was re-named for re-vised Athletic Director C. P. Lantz, Mr. Huff was also com-missioned to paint this portrait of Dr. Lantz.



Above—Faculty, staff, alumni and students presented this portrait of President R. G. Buzzard to the college on the anniversary of his twentieth year as president, October 1, 1953. Richard E. Hult, painter of the portrait, is at right.

Below—When the Health Education Building was re-named for retired Athletic Director C. P. Lantz, Mr. Hult was also commissioned to paint this portrait of Dr. Lantz.

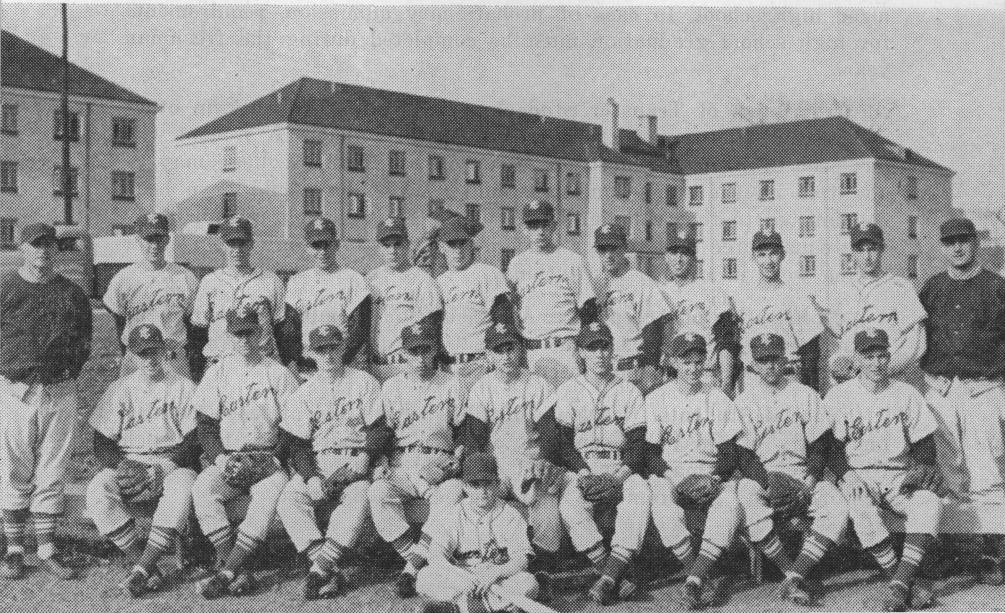




Above—Basketball team which won sixth consecutive Interstate Intercollegiate Athletic Conference championship for Eastern in 1953-54.

Admission to the Freshman Class. Graduation from a recognized or accredited four-year high school admits to membership in the Freshman class. Individuals with high school diplomas granted as a result of passing a General Educational Development Test are also granted upon presentation of fifteen acceptable units from a recognized

Below—Baseball team which won Interstate Intercollegiate Athletic Conference championship for Eastern in spring of 1953.



II. INSTRUCTION

DIVISION OF THE YEAR

The regular college year consists of three quarters which cover a period of 36 weeks. In addition, there is a summer term of eight weeks. Field study courses and off-campus workshops of three weeks duration are held at various times.

ADMISSION

A. ADMISSION OF UNDERGRADUATES

Procedure for Admission. An application blank may be obtained by writing to the Registrar. The blank contains sections to be filled out by the applicant, after which it must be sent to the high school from which the applicant was graduated. It is then sent directly to the College by the principal of the high school.

Application blanks (together with transcripts in case the applicant has been enrolled in other colleges) must be sent to the Registrar at least two weeks before the beginning of the quarter in which admission is desired, in order to insure proper consideration.

Admission to the Freshman Class. Graduation from a recognized or accredited four-year high school admits to membership in the freshman class. Individuals with high school diplomas granted as a result of passing a General Educational Development Test are admitted on the same terms as other high school graduates. Probationary admission of applicants who are not high school graduates is granted upon presentation of fifteen acceptable units from a recognized high school. In case of probationary admission, requirements for high school graduation must be completed during the freshman year.

Admission of Transfer Students. Transcripts of work in other colleges must be sent to the Registrar by the colleges. A student who has been dropped or placed on probation by another college may be admitted on the same conditions under which he would have been re-admitted to that college. The provisions of this paragraph apply with equal force to a former student who re-enters the College after taking work in another institution.

Notification of Acceptance. A registration permit is mailed to the prospective student when his application for admission and other admission documents have been found acceptable.

Special Students. Residents of Illinois who are at least twenty-one years old may be admitted as special students to take such courses as they may be qualified to study, without the necessity of conforming to requirements for a degree or a diploma.

Credit for Courses in Other Colleges. Advanced standing may be granted for courses satisfactorily completed in other recognized colleges when equivalent or similar courses are offered at Eastern Illinois State College.

College Credit for Military Service. Veterans of World War II who completed basic training are given four quarter hours credit in hygiene and are exempted from required physical education courses. Certain experiences in military service may be submitted for evaluation for advanced standing. The recommendations contained in the Handbook of the American Council on Education are used as a basis for such evaluation and credit is allowed when the recommendations can be considered as reasonable substitutes for work ordinarily accepted by the College.

Correspondence and Extension Courses. Correspondence and extension courses taken through accredited colleges may be submitted for advanced standing. The total credit accepted toward graduation may not exceed forty-eight quarter hours.

College Credit for General Educational Development Tests. Veterans who have never been enrolled in college may take college level General Educational Development Tests either before entering or within the first month of residence and submit their scores for evaluation. Persons interested in these tests should apply to the Director of Veterans Services.

B. ADMISSION OF GRADUATES

Admission to take courses is granted to a graduate with a Bachelor's degree earned in a curriculum of at least 120 semester hours in an approved college. Admission to courses does not imply admission to candidacy for the Master's degree.

A prospective student should file an application and transcripts of all undergraduate work with the Registrar at least 30 days prior to his first registration if he plans to petition for admission to candidacy. A student who does not plan to apply for admission to candidacy should file an application and a letter from the Registrar of his undergraduate college certifying the granting of the Bachelor's degree.

A senior in the College may in his last quarter of residence enroll in courses for graduate credit provided that these courses together with all courses necessary to complete the requirements for the Bachelor's degree do not exceed 16 quarter hours in a quarter or 12 quarter hours in a summer term.

Application blanks may be secured by writing to the Registrar.

Admission to candidacy for the degree, M.S. in Ed., is subject to

the following additional conditions:

1. If the Bachelor's degree was earned at another institution, the applicant must submit evidence that he has had substantial equivalents of the courses in education and practice teaching required for the degree, B.S. in Ed., in Eastern Illinois State College. Usually, one who holds a regular teachers certificate valid in Illinois can meet this requirement.

2. The student must petition for admission to candidacy. The petition must be sponsored by the student's adviser. It must contain a proposed program of courses totaling at least 48 quarter hours selected in accordance with the General Plan of Studies (See page 79).

3. Admission to candidacy will result from:

- a. Approval of the petition, or acceptance by the student of a modified program prescribed by the Committee together with:
- b. The completion of 12 quarter hours of courses of the approved program, with grades that average B.

The Committee on Candidacy in its consideration of the petition has the authority:

To approve, or to reject, the petition.

To prescribe additional courses for students whose undergraduate records show standing in the lowest third of the class or, in the case rank cannot be determined, grades averaging below 1.5.

To prescribe supplementary courses for students whose undergraduate courses and proposed course programs seem inadequate preparation for the career.

To demand supporting evidence of the possession of desirable personal qualities of a teacher.

Failure to secure admission to candidacy prior to beginning the final 24 quarter hours of a proposed program for the Master's degree is considered equivalent to rejection of candidacy.

Advanced Standing. Credit, not to exceed 12 quarter hours, may be allowed for graduate courses completed in other institutions provided that such courses must be listed in the student's petition for candidacy and approved as part of his program of studies.

ACADEMIC COUNSELING AND REGISTRATION

New Students. All undergraduates who are entering Eastern Illinois State College for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present for all of the sessions of an orientation program. The program includes testing, conferences with advisers, and other meetings. Required orientation meetings for 1954-55 are held on Wednesday,

Thursday, and Friday, September 8, 9, and 10, 1954, with the first session at nine o'clock on Wednesday, September 8. The orientation program continues through the college year with a series of meetings to be announced.

Each new student is assigned to an adviser who assists him in the preparation of his academic program. During the orientation days, the adviser and the student together plan his courses for the entire year—a procedure known as pre-registration. This plan is subject to modification later upon recommendation of the adviser and approval of the Dean.

It is expected that the student and his adviser will plan courses that are consistent with the requirements of the curriculum which the student has chosen.

Pre-registration. During the Spring Quarter of each year students who plan to return to the campus confer with their advisers in order to pre-register for work to be done during the next year. The pre-registration program is subject to change upon the recommendation of the adviser and the approval of the Dean.

Registration. All students who have pre-registered either during the preceding Spring Quarter or during the orientation days will register on Saturday, September 11, 1954, according to the following schedule:

8- 9 A through D
 9-10 E through K
 10-11 L through R
 1- 2 S through Z

Students who wish to register on that day and who have not pre-registered may meet their advisers after 2 p.m. and may be permitted to register for classes in which there are vacancies. Pre-registered students who fail to register at their appointed time forfeit their priority in classes for which they were pre-registered.

No student may register for a course not regularly scheduled.

GRADUATION REQUIREMENTS

Diploma. A Junior College Diploma is awarded upon successful completion of one of the two-year curricula described in this bulletin. At least one year of residence work is required for the Junior College Diploma.

Three-fourths of the candidate's grades must be C or above, and the grade point average of all courses must be 1.0 or higher.

The physical education requirement for graduation with a Junior College Diploma is one quarter hour of credit for each quarter in residence.

Bachelor of Science in Education. The degree of Bachelor of

Science in Education (B.S. in Ed.) is conferred upon successful completion of a four-year curriculum described in this bulletin. Each curriculum leading to the degree, B.S. in Ed., prescribes 192 quarter hours of regular courses together with a one quarter hour course in library use and required courses in physical education. Two of the curricula, Business Education and Elementary Education, require in addition a one quarter hour course in penmanship.

The physical education requirement is nine quarter hours. This requirement is in harmony with the general residence requirement in physical education as described on pages 170 and 176.

Credit earned in dramatics or in music organizations is in excess of the total required for graduation except for ensemble credit given to students with a major or a minor in music, or to students in the Elementary Education curriculum.

The maximum amount of credit in correspondence courses and extension courses which may be applied toward the degree is forty-eight quarter hours.

Seniors whose grade point average in courses taken in this institution is lower than 1.0 are not permitted to transfer credits from other colleges.

A year of residence work is required for the degree. At least one quarter of student teaching must be completed at Eastern Illinois State College.

The Junior English Examination must have been passed successfully by a candidate for the degree. See page 129.

One-third of the student's credits toward graduation must be in courses not open to freshmen and sophomores. Courses numbered in the 300's and 400's are not open to freshmen and sophomores and hence are indicated by this rule.

An average of 1.0 in all courses, with no more than one-fourth of the student's grades below C, constitutes a minimum scholarship requirement for graduation. In addition, the courses in the candidate's major subject must average 1.0.

Students who plan to teach in high school should see that their records satisfy the requirements of the Illinois State Teachers Certification Board and the North Central Association.

Registration with the Bureau of Teacher Placement is a requirement for graduation.

A candidate for the degree must pass an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois.

Master of Science in Education. The degree of Master of Science in Education (M.S. in Ed.) will be conferred upon:

1. The completion of the program of studies as approved by the Committee on Candidacy, with grades that average B (2.0) and with not more than eight quarter hours of courses with grades below B.

2. Certification by the adviser not later than the middle of the last term of residence that a substantial paper has been written and approved. This paper may be an outgrowth either of a course or of an outside project. The paper, and the work from which it grows, must exhibit ability to work independently and to meet a standard of written composition appropriate to the Master's degree level of maturity.

3. Satisfactory performance in a comprehensive examination intended to measure the degree to which the aims of the student's program have been achieved.

4. Passing an examination on the Declaration of Independence, the proper use and display of the flag, the Constitution of the United States, and the Constitution of Illinois.

A maximum of eight quarter hours of the minimum requirement of 48 quarter hours may be earned in extension courses.

Special Requirements for Degree or Diploma. A graduation fee of \$10 must be paid before April 1 by all candidates for graduation at the Spring Commencement. The fee must be paid before July 1 by candidates for graduation at the Summer Commencement. This fee covers graduation expenses including the use of cap and gown.

A photograph, size not larger than 1½" by 2½", is required of each candidate for graduation for the files of the Registrar's Office.

In special cases the time for completing the work may be extended to September 1 for students graduating with the Bachelor's degree at the Summer Commencement. The time is not extended for Master's degree candidates.

The list of candidates for graduation is based on the checking of April 1 to July 1 respectively. *No names will be added to the list of candidates for graduation after these dates.*

SCHOLARSHIP

Grades. Grades are expressed in letters, with equivalents as follows:

A. Excellent	-----	3 grade points
B. Good	-----	2 grade points
C. Average	-----	1 grade point
D. Passing	-----	0 grade point
F. Failure	-----	-1 grade point
E. Incomplete work		
W. Withdrew		

The grade of E is given only when there exists a plan for completion of the work. This plan must provide for the completion of the work no later than the end of the next quarter of residence. If work is made up according to the plan, the grade earned by the student replaces the grade of E. In case the work is not made up according

to the plan, the grade of E stands on the student's record. The grade of E is presumed to be given only when through illness or because of some other important reason the student's normal progress in the course has been delayed.

Honor Points. The number of honor points for a course is the product of the number of grade points for the course grade by the number of quarter hours of credit earned in the course. The honor point total at any time is the sum of the honor points for the courses which have been taken, including those with grades of F but excluding those with grades of E or Library 120, Business Education 120, service courses in physical education, or nominal credit in music organizations.

Grade Point Average. The grade point average is the quotient of the honor point total divided by the number of quarter hours represented by the courses which entered into the total.

Honor Point Deficit. If a student's grade point average is less than 1.0 there exists an honor point deficit which is the difference between the number of quarter hours and the honor point total.

Probation. An undergraduate is considered to be on probation during a quarter if in the preceding quarter he received in his courses exclusive of Library 120, Business Education 120, and service courses in physical education any of the following:

- (1) Less than eight honor points.
- (2) Twelve quarter hours of grades of D.
- (3) Grades of F in four quarter hours of work and an average less than 1.0 in the remaining courses.
- (4) Grades of F in eight quarter hours of work.

A student who has been in residence for three or more terms (quarters or summer terms) is on probation if his cumulative record shows the following deficits in honor points:

- (1) A deficit of nine or more honor points after three terms.
- (2) A deficit of five or more honor points after four terms.
- (3) Any deficit in honor points after five terms.

A student who does not pass Library 120 during the first three terms of residence is on probation until he has made a passing grade in the course.

Students on probation are not permitted to take more than twelve quarter hours of academic courses in a quarter nor more than eight quarter hours in a summer term except by permission of the Dean.

A student who is on probation is reported as on probation if his record is sent to another college.

Exclusion. A student who fails in three courses (twelve quarter hours) in any quarter is dropped from the College.

A student who after two consecutive quarters on probation status has not attained good standing is excluded from attendance for a period of one calendar year unless he is given special permission by the Dean to remain. This permission is automatically extended to the end of the current academic year for students who are on probation for cumulative record if their record has shown improvement during the two quarters on probation.

A student affected by this section is reported as "Dropped on account of low scholarship" if his record is transferred to another institution.

Honors. Graduation honors for the Junior College Diploma and the degree of Bachelor of Science in Education are computed on the basis of the scholarship record at the end of the Winter Quarter of the year of graduation, or at the end of the Spring Quarter in case of graduation in the August commencement.

A student whose grade point average is at least 2.40 but less than 2.75 is graduated with Honors; one whose grade point average is 2.75 or higher is graduated with High Honors.

Quarter honors and annual honors are recommended on the same basis as graduation honors, provided that to be eligible for honors in any quarter the student must have carried at least fourteen quarter hours of courses exclusive of library, penmanship, service courses in physical education and nominal credit in music organizations; and for annual honors, forty-two quarter hours of credit in three quarters.

Graduation honors are noted on the diploma and announced at Commencement.

Admission to Student Teaching. Scholarship requirement for admission to student teaching is an average of 1.0 or higher. Other prerequisites for admission to student teaching are listed on page 128.

Scholarship Requirements for Graduation. (See Graduation Requirements, page 68.)

Extra Work. A normal load of work for a student in good standing in any of the three quarters of the school year is sixteen quarter hours of regular academic courses except when, as in music, the curriculum calls for a different load. In a summer term the normal load is twelve quarter hours. For academic loads of students on probation see "Probation". No freshman may register for additional work during his first quarter. No student may register for additional work during the first quarter in which he has student teaching. With the above exceptions, an undergraduate whose grade point average in any quarter or summer term is 2.0 or higher may register for four quarter hours of extra work during the next period of residence. The maximum load for graduates is 16 quarter hours in a quarter or 12 quarter hours in a summer term.

WITHDRAWAL

Withdrawal from College. A student who wishes to withdraw from the College before the end of a quarter must notify the Registrar at the time of withdrawal. Such a student receives grades of W in all courses, except that if the withdrawal takes place after the close of the ninth week of the quarter grades of W are recorded only for courses in which he is doing passing work, with grades of F for courses in which he is failing.

If a student discontinues attendance in all classes without notifying the Registrar of intention to withdraw from the College, grades of F are recorded in all courses, and his record marked "Dropped for low scholarship" if transferred to another institution.

Withdrawal from a Course. A student may drop a course at any time upon the recommendation of his adviser and the approval of the Dean. If the course is dropped after the beginning of the third week, a grade of W is recorded only if the work done up to that time is of passing quality; if it is not of passing quality a grade of F is recorded.

ATTENDANCE AT CLASSES

Students are expected to attend all classes for which they are registered unless prevented by illness or some other urgent reason. Students who have been absent because of illness must present a permit from the Health Service upon returning to classes. If attendance at a class is discontinued without official withdrawal from the course a grade of F is recorded in the course.

A student has the privilege of submitting to his instructor work to cover that missed during periods of illness, provided it can be accomplished within a reasonable period of time. This privilege may be granted or withheld at the option of the instructor for absences other than illness. It is the intent of this provision that students who are absent for good reasons shall not be unduly penalized.

CREDIT

The unit of measure is the quarter hour, representing one hour a week of prepared work for one quarter. It is equivalent to two-thirds of a semester hour.

A year's work is equivalent to 48 quarter hours (32 semester hours) of prepared work. A year's work in one subject is equivalent to 12 quarter hours (8 semester hours). The normal load in one quarter is 16 quarter hours of prepared work.

Seniors enrolled in freshman courses are allowed only eight quarter hours of credit for twelve quarter hours work except that freshman courses in foreign languages may be taken by seniors for full credit.

Credit earned in dramatics, glee club, choir, chorus, orchestra, or band is in excess of the total required for graduation except for those whose major or minor is music. Such students receive certain stated credits under the title "Ensemble."

A statement of the amount of credit is included in the description of each course.

NUMBERING OF COURSES

Courses numbered 100-199 are freshman courses; 200-299, sophomore courses; 300-399, junior courses; 400-499, senior courses. Courses numbered 300-499 are not open to freshmen or sophomores and courses numbered 100-199 may not be taken for full credit by seniors. Courses numbered 500-549 are graduate courses open with special permission to seniors.

Courses numbered 550-599 are not open to undergraduates. Certain courses numbered below 500 may be taken for credit toward the Master's degree.

EXTENSION SERVICE

The organization of Extension courses has made it possible for the College to assist teachers in service to continue their education. Extension work to the extent of not more than 48 quarter hours of credit may be accepted toward graduation.

Organization. Classes may be organized in communities in which twenty or more students can agree upon an acceptable course. The courses offered are usually on junior, senior, or graduate level, but freshman or sophomore courses may be offered if desired.

Entrance. The courses are open to high-school graduates. They may be audited or taken for credit. The regular fees are required of auditors.

Credit. Classes meet in weekly periods of one hundred fifty minutes for sixteen weeks. Four quarter hours of credit are given upon satisfactory completion of a course.

Fees. The fees are \$12.50 for each course with an additional charge of \$1.50 for textbook rental. When textbooks cannot be supplied by the college textbook library, the rental fee is waived and the members of the class must buy their own books.

Holders of Lindly, Teachers College, or Illinois Military Scholarships are required to pay the textbook rent (\$1.50).

Veterans of World Wars I and II and the Korean conflict who were residents of Illinois at the time of entering the service upon presentation of an honorable discharge are granted an Illinois Military Scholarship to cover the fees (\$12.50). A Military Scholarship

COURSES OFFERED IN 1953-54

<i>Course Number</i>	<i>Center</i>	<i>Instructor</i>
Art E224	Louisville	
	Olney	Mr. Countryman
Art RE234	Charleston	Miss Krutza
Biology E129	Toledo	Dr. Scruggs
Botany RE550	Charleston	Dr. Thut
Botany RE552	Charleston	Dr. Damann
Comparative Lit. RE550	Charleston	Dr. Cline
Comparative Lit. RE551	Charleston	Dr. Guinagh
Education E220	Newton	Mrs. Ryle
	Shelbyville	Dr. Olsen
Education E325	Fairfield	Dr. Fisher
Education E326	Charleston	Dr. Heise
Education E344	Flora	Dr. Heise
Education E447	Mt. Carmel	
	Effingham	Dr. Heise
Education E455	Shelbyville	Dr. Cavins
Education E469	Flora, Toledo, Albion, Charleston, Shelbyville	Dr. Moler
Education E487	Fairfield, Hillsboro, Charleston	Dr. Byrnes
Education RE550	Charleston	Dr. Zeigel
Education RE551	Charleston	Dr. Campbell
	Charleston	Dr. McKenna
Education RE552	Charleston	Dr. Lawson
Education RE581	Charleston	Dr. Olsen
Education RE590	Charleston	Dr. Anfinson
Education RE592	Charleston	Dr. Crane
English RE458	Charleston	Dr. Blair
Geography E221	Hillsboro	Dr. Barton
Geography E340	Flora	Dr. Barton
Geography RE451	Charleston	Dr. Zeller
Geography RE550	Charleston	Dr. Brown
Geography RE565	Charleston	Dr. Barton
Geography RE575	Charleston	Dr. Zeller
Health Educ. E320	Louisville	Dr. Riebe
Health Educ. E330	Toledo	Dr. Riebe
Health Educ. E331	Tuscola	Dr. Riebe
Health Educ. E455	Vandalia	Dr. Cavins
Health Educ. (non-credit)	Newton	Mrs. Ryle
Ind. Arts E225	Fairfield	
	Arthur	Dr. Duncan
	Ramsey	Dr. Fowler
Ind. Arts E452	Mt. Carmel	Dr. Duncan
Ind. Arts RE550	Charleston	Dr. Landis
Library E250	Chrisman	Mr. Eberhardt
Music E120	Vandalia	Dr. Rezatto
Music E228	Flora	
	Vandalia	Dr. Dvorak
Music RE550	Charleston	Dr. Dvorak
Physical Educ. E132	Olney	Dr. Haight

For description of courses, refer to respective departments under "Description of Courses".

cannot be used when the student is receiving aid from the Federal Government under Public Law 16, Public Law 346, or Public Law 550.

Address all requests for bulletins and other inquiries concerning this work to the Director of Extension.

TRAINING SCHOOLS

Campus Training Schools.

Purpose. The Campus Training Schools are operated primarily to provide observation and student teaching facilities for college classes and students. Every classroom in these schools is open to observers, whether students or teachers from the field, at all times except when a sign "No Visitors Please" appears on the door or if the seats provided for visitors in the room are filled. The principals and supervisors of these schools will help students and visiting teachers find the observation opportunities desired.

Organization. The training schools comprise an elementary school of eight grades and the Eastern Illinois State High School with grades nine through twelve. Each of these schools is under the supervision of a principal who works in cooperation with the Director of Teacher Training in developing and carrying on the educational program. Departments of the college serve in an advisory capacity. Eastern State High School is recognized by the State Department of Education and is accredited by the North Central Association of Colleges and Secondary Schools.

Student Teaching Assignments. Students are assigned to student teaching cooperatively by the Director of Teacher Training, the student's advisor, and in the case of assignments in the high school, the department in which the student's major or minor lies. For regulations governing admission to student teaching see under "Scholarship," page 71.

**Essential Features Pertaining to Limited Certificates
by the Sixty-Seventh**

Analysis of Main Features of Certificates	Supervisory All-Grade	Supervisory High School	Supervisory Elementary	High School
	(2)	(3)	(4)	(5)
I. Scope of Validity:				
(a) Duration of time-----	4 yr.	4 yr.	4 yr.	4 yr.
(b) General duties permitted-----	Teaching; supervision	Teaching; supervision	Teaching; supervision	Teaching;
(c) Grades of school system-----	1-12	7-12	1-9	7-12
II. Requirements for Issue on Credits:				
(a) College semester hours-----	Master's ¹ Educ. Admin.	120	120	Bachelor's ¹
(b) Semester hours in education---	20	16	16	16 ³
(c) Teaching experience-----	4 yr. (Gr. 1-12)	4 yr. (Gr. 9-12)	4 yr. (Kdg.- Gr. 8)	0
(d) ⁴ Renewal conditions-----		Success; growth 5 sem. hrs. in adminis- tration and supervision	Success; growth 5 sem. hrs. in adminis- tration and supervision	Success; growth 5 sem. hrs. in each 4 yr. period until the holder has earned 150 sem. hrs.
III. Conditions of Exchange for Life Certificate:				
(a) Years of successful experience--		Super. 4 yr. ⁶	Super. 4 yr. ⁶	4 yr. ⁶
(b) College semester hours required--		Master's in Educ. Admin.	Master's in Educ. Admin.	Master's
(c) College semester hours in education at graduate level-----		24	24	22
(d) Name of certificate received----		Life Supervisory High School	Life Supervisory Elementary	Life High School

¹ Minimum amount of training in the subject or subjects to be approved by Superintendent of Public Instruction in consultation with the State Teacher Certification Board.

² Including 60 semester hours in a recognized kindergarten-primary school.

³ Including 5 semester hours of student teaching.

⁴ Evidence of successful teaching and professional growth prerequisite to the renewal of all certificates.

⁵ An examination is also required in the subject fields of social science, natural science, language arts, and professional education as prescribed by the State Teacher Certification Board unless the applicant presents evidence of having earned a Bachelor's degree from a recognized institution of higher learning and has credits within 8

Provided for the Certifying Law Enacted
General Assembly, 1951

NAME OF LIMITED CERTIFICATE							
Special	Kindergarten Primary	Elementary	Provisional		Vocational	Junior College	Teachers of Exceptional Children
(6)	(7)	(8)	(9)		(10)	(11)	(12)
			Temp- orary				
4 yr. Teaching; supervision	4 yr. Teaching	4 yr. Teaching	2 yr. Teaching	1 yr. Teaching	4 yr. Teaching	4 yr. Teaching	4 yr. Teaching
1-12	Gr. Kdg. 1-3	1-9	1-12	1-12	7-12	9-14	1-12
Bachelor's ¹	Bachelor's ^{1 2}	Bachelor's ¹	60 ⁵	30	Bachelor's ¹	Master's ^{1 7}	Bachelor's ¹
16 ^{3 8}	16 ^{3 8}	16 ³	10		16 ^{3 8}	20	24 ⁹
0	0	0	0	1 yr.	0	0	0
Success; growth 5 sem. hrs. in each 4 yr. period until holder has earned 150 sem. hrs.	Success; growth 5 sem. hrs. in each 4 yr. period until holder has earned 150 sem. hrs.	Success; growth 5 sem. hrs. in each 4 yr. period until holder has earned 150 sem. hrs.	Success; growth 8 sem. hrs. until re- quirements of regular limited certificate are met.	Success; growth 5 sem. hrs.	Success; growth 5 sem. hrs. in each 4 yr. period until holder has earned 50 sem. hrs.	Success; growth 4 yr. ⁶ Master's 22 Life Junior College	Success; growth 5 sem. hrs. in each 4 yr. period until holder has earned 150 sem. hrs.
4 yr. ⁶	4 yr. ⁶	4 yr. ⁶					
Master's	Master's	Master's					
22	22	22					
Life Special	Life Kindergarten Primary	Life Elementary					

semester hours of the requirements for the limited certificate required for the teaching position which he is to hold.

⁶ Two years of which shall have been in Illinois.

⁷ Including major in each subject field named in certificate.

⁸ Including 5 semester hours of student teaching in the subjects named in the certificate.

⁹ 24 semester hours in field of specialization including 6 semester hours of student teaching.

Off-Campus Student Teaching. Student teachers in vocational home economics are assigned to selected public high schools on an all-day basis for a period of nine weeks for twelve quarter hours credit.

Students in other fields may under certain conditions be given student teaching assignments in selected public schools.

THE CERTIFICATING LAW

- A. A provisional certificate may be obtained prior to July 1, 1955 by applicants who are nineteen years old or older upon the completion of sixty semester hours of college courses, including ten semester hours in the field of professional education, and the passing of an examination as prescribed by the State Teacher Certification Board.
- B. A limited elementary certificate may be obtained by applicants who hold a bachelor's degree in elementary education with a minimum of sixteen semester hours in professional education, including five semester hours of student teaching.
- C. A limited kindergarten-primary certificate may be obtained by applicants who hold a bachelor's degree with at least sixty semester hours in a recognized kindergarten-primary training school with a minimum of sixteen semester hours in professional education, including five semester hours in student teaching.
- D. Graduation with the degree from a high-school curriculum gives a limited high-school certificate.
- E. Graduation with the degree from a curriculum so designated gives a limited special certificate.
- F. If the student has taught successfully for four years he may also have a supervisory certificate for teaching in the first eight grades (Elementary) or grades seven through twelve (High School). For a limited all-grade certificate a master's degree is required with twenty semester hours in graduate education courses and four years of teaching experience at the high school or elementary level.
- G. A limited junior college certificate may be obtained by graduates holding a master's degree with twenty semester hours of professional education and a major in each subject field named in the certificate.
- H. A limited certificate for teachers of exceptional children may be obtained by graduates with a bachelor's degree, twenty-four semester hours in the field of specialization, and six semester hours of student teaching.

It is the uniform practice of the four teachers colleges in Illinois that institutional credit blanks applying for a certificate shall be sent only to the State Teacher Certification Board.

Note: For certification and graduation requirements relative to scholarship, see page 67.

CURRICULA

A. ADVANCED PROFESSIONAL EDUCATION LEADING TO THE DEGREE, MASTER OF SCIENCE IN EDUCATION.

It is intended that the courses for the Master's degree for any student shall assume increased maturity, greater range of intellectual interests, much greater independence in reading and investigation and more constructive thinking than do the undergraduate courses offered for the Bachelor's degree.

The courses selected for the program of any individual shall total at least 48 quarter hours and shall be chosen under the sponsorship of the adviser in accordance with the following plan.

Group I. Basic Courses in Education. 12 quarter hours.

This requirement comprises three courses required of all candidates. These courses are intended to present certain basic concepts common to the desirable background of all mature workers in the field of Education. They consist of:

Education 550—Principles of Curriculum Development.

Education 551—Social Foundations of Education.

Education 552—Understanding the Individual.

It is desirable that not more than one of these courses be taken in any one quarter or summer term of residence.

Students who have had courses equivalent to any of these may petition for exemption through examination. Elective courses equivalent in credit to those waived by the examination must then be substituted.

Group II. Courses Specifically Related to the Student's Career. 24 or 28 quarter hours.

These courses may be confined to a single department or they may be selected from more than one department. It is a criterion that the courses of the group must be unified about the student's professional aim. The adviser and the student share responsibility in the selection of these courses. An important factor in approving the petition for candidacy is the suitability of the courses proposed for this group.

Group III. Courses for the Advancement of the Cultural Level of the Mature Individual. 12 or 8 quarter hours.

These must be selected from courses designated for this purpose. The aim of this requirement is to advance the level of thinking and appreciation of problems or cultural aspects of life not directly associated with the student's professional career.

Admission to Graduate Courses. See page 65.

Admission to Candidacy for the Degree, M.S. in Ed.
See page 65.

Advanced Standing. See page 66.

Fees. See pages 40 and 75.

Graduation Requirements. See page 68.

Graduate Courses in Senior Year. See page 65.

B. THE DEGREE, BACHELOR OF SCIENCE IN EDUCATION

I. Curriculum For Elementary Teachers

This curriculum is intended to prepare for teaching in the first nine grades of the public schools. The degree of Bachelor of Science in Education is conferred upon its completion and graduates are recommended for a Limited Elementary Certificate.

FRESHMAN YEAR

English 120, 121, 122
Education 120, Mathematics 120, 121
Social Science 146, 147, 138
Biology 126, 127, 128
Business Education 120
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Education 230, Psychology 231,
Education 232
Music 120, Health Education 120,
Music 228
Art 130, 224, Industrial Arts 224 or 225
Physical Science 100, 101, 102
Physical Education (Year)

JUNIOR YEAR

Education 345, 325, 328
Social Science 233, 234, 235
Geography 300, 301, 302
Elective Year
Physical Education 315, 316, 317

SENIOR YEAR

Psychology 447, Education 344, 343
English 234, Speech 345, English 348*
Advanced Elective (Year)
Teaching 441, 442, 443

*Or English 343 or 344 or 452.

Note: Those preparing for the lower grades should choose English 122, those preparing for upper grades, English 126.

Students may offer as elective credit in the Elementary Education curriculum 4 q. hrs. earned in vocal ensemble or choral ensemble 256, 356, 456, in the music organizations.

II. Curricula For High-School Teachers

The degree of Bachelor of Science in Education is conferred upon the completion of any of the curricula described in this section, and graduates are recommended for a limited High School Certificate or Limited Special Certificate as indicated.

The curricula are listed according to major. The student takes at least 36 quarter hours in his major exclusive of courses in methods. At least one minor of 24 quarter hours is required for a high school certificate. Each curriculum provides for a number of elective courses. Students are urged to use electives, in the main, to build additional minors. A few courses are not accepted as electives in certain curricula. These exceptions are noted in the Description of Courses.

The student's program for graduation must be approved by the Dean of the College before it is accepted as fulfilling requirements.

The following courses are common to all curricula for High School Teachers:

English 120, 121, 125
Laboratory Science (Year)
Health Education 120

Social Science (8 to 12 quarter hours, including at least 4 quarter hours in American History)

Speech 345

Education 230, 232, 343, 344¹, 345, Psychology 231

Teaching 441, 442, 443

Library 120

Physical Education (9 q. hrs.)

¹ Except majors in Home Economics and Music.

ART

I. (Limited Special Certificate in Art)

FRESHMAN YEAR

Art 100, 101, 102

Art 110, 111, 112

English 120, 121, 125

Health Education 120

Social Science (2 quarters)*

Art 125

Library 120

Physical Education (Year)

SOPHOMORE YEAR

Art 220, 221, 222

Art 230, 231, 232

Education 230, 232, Psychology 231

Laboratory Science (Year)

Art 225

Physical Education (Year)

JUNIOR YEAR

Education 343, 345, Teaching 441

Elective or Minor Subject (Year)

Art 345, 344, 340

Art 336, 337, 338

Art 325

Physical Education (Year)

SENIOR YEAR

Teaching 442, 443, Art 453

Minor Subject or Elective (Year)

Art 445, 448, 460

Elective, Education 344, Speech 345

Art 425

II. (High School Certificate)

FRESHMAN YEAR

Art 100, 101, 102

Art 110, 111, 112

English 120, 121, 125

Health Education 120

Social Science (2 quarters)*

Art 125

Library 120

Physical Education (Year)

SOPHOMORE YEAR

Education 230, 232, Psychology 231

Laboratory Science (Year)

Art (3 quarters) chosen from Art 220, Art 453, Elective, Education 344

221, 222, 230, 231, 232

Electives or Minor (3 quarters)

Art 225

Physical Education (Year)

JUNIOR YEAR

Education 343, 345, Speech 345

Minor Subject (Year)

Art 344, 449, 340

Art 336, 337, 338

Art 325

Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443

Minor Subject or Elective (Year)

Art 455, 448, 460

Art 425

Requirements for a Minor in Art:

Three courses chosen from Art 100, 101, 102, 110, 111, 112, with four other courses selected in relation to major field, approved by head of department.

Majors in curricula which require art courses will count those courses toward a minor in art—Art 129, 130, 131, 224, 256, 351—with other courses approved by head of department.

* One quarter must be chosen from Social Science 233, 234, 235.

BIOLOGICAL SCIENCE

Note: The botany and zoology curricula are so arranged that the

student may not only have four years of work in botany or zoology (including one year of methods and practice teaching), but that he may also have three minor subjects of six quarters each, which qualify him to teach six different subjects in accredited high schools.

(1) Botany

FRESHMAN YEAR

English 120, 121, 125
 Elective (Year)
 Chemistry 130, 131, 132
 Botany 120, 121, 122
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science (2 quarters),* Health
 Educ. 120
 Zoology 120, 121, 122
 Botany 230, 231, 232
 Physical Education (Year)

JUNIOR YEAR

Speech 345, Education 345, Geography
 236
 Education 343, 344, Botany 340
 Botany 344, 343, 343 (443)
 Zoology 230, 231, 232 (or Zoology 343,
 344, 345)
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Elective (Year)
 Advanced Elective (Year)
 Zoology 343, 344, 345 (or Elective Year)

(2) Zoology

FRESHMAN YEAR

English 120, 121, 125
 Elective (Year)
 Chemistry 130, 131, 132
 Zoology 120, 121, 122
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science (2 quarters),* Health
 Educ. 120
 Botany 120, 121, 122
 Zoology 230, 231, 232
 Physical Education (Year)

JUNIOR YEAR

Speech 345, Education 345, Zoology 340
 Education 343, 344, Geography 236 or
 448
 Botany 230, 231, 232
 Zoology 343, 344, 345
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Advanced Elective (Year)
 Botany 343, 344, 345 (or Adv. Elective)
 (Year)
 Elective (Year)

Requirements for a Minor in Botany or Zoology:

One year of the beginning course and three other courses to be determined by the head of the department.

* At least one quarter must be chosen from Social Science 233, 234, 235.

BUSINESS EDUCATION

(1) Secretarial Studies

FRESHMAN YEAR

English 120, 121, 125
 Business Education 210, 211, 212
 Business Education 140, 142
 Health Education 120
 Laboratory Science (Year)
 Library 120
 Physical Education (Year)

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Business Education 223, 224, 225
 Social Science 254, 255, 256
 Social Science 233 or 234 or 235
 Business Education 141, Elective
 Business Education 120
 Physical Education (Year)

JUNIOR YEAR

Education 343, 344, 345*
 Business Education 247, 248, 249 or
 451, 452, 453
 Business Education 450S, 450T
 Speech 345
 Minor Subject (Year)
 Physical Education (Year)

SENIOR YEAR

Advanced Elective (Year)
 Teaching 441, 442, 443
 Business Education 446, 447, Elective
 Advanced Minor Subject (Year)

(2) Accounting**FRESHMAN YEAR**

English 120, 121, 125
 Business Education 212 and two of the following: 110, 111, 112, 210, 211
 Laboratory Science (Year)
 Business Education 140, 142
 Health Education 120
 Library 120
 Physical Education (Year)

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Business Education 230, 231, 232
 Social Science 254, 255, 256
 Social Science 233 or 234 or 235
 Business Education 141
 Elective
 Business Education 120
 Physical Education (Year)

JUNIOR YEAR

Education 343, 344, 345*
 Business Education 460, 461, 462
 Business Education 450B, 450I or 450S or 450T
 Elective
 Minor Subject (Year)
 Physical Education (Year)

SENIOR YEAR

Business Education 247, 248, 249 or 451
 452, 453
 Teaching 441, 442, 443
 Business Education 446, 447
 Speech 345
 Advanced Minor Subject (Year)

(3) Accounting and Secretarial Studies**FRESHMAN YEAR**

English 120, 121, 125
 Business Education 212 and two of the following: 110, 111, 112, 210, 211
 Laboratory Science (Year)
 Business Education 140, 142
 Health Education 120
 Library 120
 Physical Education (Year)

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science 233 or 234 or 235
 Business Education 230, 231, 232
 Business Education 123, 124, 125 or 223, 224, 225 (Any three in sequence)
 Business Education 141
 Business Education 120
 Physical Education (Year)

JUNIOR YEAR

Social Science 254, 255, 256
 Education 343, 344, 345*
 Business Education 460 or 461 or 462
 Business Education 450B, 450I, 450S, 450T (Elect two)
 Minor Subject (Year)
 Physical Education (Year)

SENIOR YEAR

Advanced Elective (Year)
 Business Education 446, 447
 Speech 345
 Teaching 441, 442, 443
 Advanced Minor Subject (Year)

* Students having two or more years of business experience may substitute Education 458 for Education 345 by securing the Dean's approval.

Requirements for a Minor in Business Education:

It is suggested that the minor be taken in shorthand and typewriting; accounting and business law; accounting and typewriting; or accounting and retailing. The general requirement for a minor is one year's work in each of two fields.

No credit is given for less than a year's work in any of the following fields for a minor in business education: accounting, shorthand, and typewriting.

Placement Test:

Students who have had one or more years of work in bookkeeping, shorthand, or typewriting should take a placement test in these subjects.

Students who pass the bookkeeping test on single proprietorship will be permitted to take the second term of accounting. This test includes a theory test and the demonstration of the student's ability to complete the work at the end of a fiscal period from a trial balance and adjusting data.

Students who can write shorthand at a minimum rate of 80 words per minute for five minutes with 98 per cent accuracy will be allowed

to take advanced shorthand.

Students who typewrite for five minutes at a minimum rate of 50 net words per minute with three errors or less are permitted to take advanced typewriting.

ENGLISH

Students wishing to accumulate additional minors or a second teaching major may omit certain of the English courses listed below by arrangement with the head of the department. Care must always be taken to include enough senior college courses and to plan a balanced program of English study.

FRESHMAN YEAR

English 120, 121, 126
Laboratory Science (Year)
Elective (Year)
Minor Subject (Year)
Physical Education (Year)
Library 120

JUNIOR YEAR

Education 343, 344, 345
Speech 345, Social Science 233 or 234,
English 340
English 343, 344, Art 351
English 346, 347, 348
Physical Education (Year)

SOPHOMORE YEAR

English 235, 231, 237 (or 3 Electives)
Education 230, 232, Psychology 231
Health Education 120, Elective (2 quarters)
English 230, 236, 234
Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
Minor Subject (Year)
Social Science 343, 344, 345
English 452, 450, 451

Notes: 1. Any student entering the College with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

2. Fourteen English courses are required for graduation in the English curriculum.

3. Students with from two to four years of high-school Latin may arrange for a Latin minor or for a joint major in English and Latin, by consulting the heads of these departments.

Recommended for a Minor in English:

English 230, 231, 234, 235, 236 (or 343), 237, 240; 346, 347, 348, 452, 454, may be used for credit toward a minor in English, or other courses by arrangement. It is recommended that the following be always included: English 230 or 231, 234, and 236.

Recommended for a Minor in Journalism:

English 210J, 211J, 212J; English 310J, 311J, 312J.

FOREIGN LANGUAGES

(1) Latin

FRESHMAN YEAR

Latin 120, 121, 122*
English 120, 121, 125
Laboratory Science or Elective (Year)
Social Science 146, 233 or 234 or 235,
Health Education 120,
Physical Education (Year)
Library 120

JUNIOR YEAR

Latin 230, 231, 232
Speech 345, Latin 340, Advanced Elective
Education 343, 344, 345
Modern Foreign Language (Year)
Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
Latin 343, 344, 345
Advanced Elective (Year)
Elective (Year)

SOPHOMORE YEAR

Latin 220, 221, 222
Education 230, 232, Psychology 231
Modern Foreign Language (Year)
Elective or Laboratory Science (Year)
Physical Education (Year)

* Students who have credit for two years Latin in high school should register for Latin 220, 221, 222.

(2) French**FRESHMAN YEAR**

French 130, 131, 132*
 English 120, 121, 125
 Laboratory Science (Year)
 Social Science 233, 234, Health Educ.
 120
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

French 230, 231, 232
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective (Year)
 Physical Education (Year)

JUNIOR YEAR

French 333, 334, 335
 Education 343, 344, 345
 Speech 345, Advanced Elective, French
 340
 Suggested Minor (German, Latin or
 Spanish)
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 French 450, 451, 452
 Elective (Year)
 Suggested Minor (German, Latin or
 Spanish)

* Students who have credit for two years of French in high school should register for French 230, 231, 232.

(3) Spanish**FRESHMAN YEAR**

Spanish 130, 131, 132*
 English 120, 121, 125
 Laboratory Science (Year)
 Social Science 233, 234, Health Educ.
 120
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Spanish 230, 231, 232, or 233, 234, 235
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective (Year)
 Physical Education (Year)

JUNIOR YEAR

Spanish 336, 337, 338
 Spanish 341, 342, 340
 Education 343, 344, 345
 Suggested Minor (French, German or
 Latin)
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Spanish 433, 434, 435 or 453, 454, 455
 Suggested Minor (French, German or
 Latin)
 Elective (8 q. h.), Speech 345

* Students who have credit for two years of Spanish in high school should register for Spanish 230, 231, 232, or 233, 234, 235.

GEOGRAPHY**FRESHMAN YEAR**

English 120, 121, 125
 Laboratory Science (Year)
 Elective (Year)
 Geography 120, 221, 130
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science (2 quarters)*
 Health Educ. 120
 Geography 233, 236, 240
 Minor Subject (Year)
 Physical Education (Year)

JUNIOR YEAR

Education 343, 344, 345
 Elective (Year)
 Social Science 254, 255, Speech 345
 Geography 447, 344, 446
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Geography 340, Two regional courses**
 Advanced Elective (Year)
 Minor Subject (Year)

Requirements for a Minor in Geography:

For elementary grades or department teachers, Geography 120, 130, 221, 240, 236 and 340G; for high-school teachers, Geography 120, 130, 221, 240, 236 and 447.

* At least one quarter must be chosen from Social Science 233, 234, 235.

** The two regional courses may be chosen from the following: Geography 451, 452, 453, 454 or 455.

HOME ECONOMICS*

FRESHMAN YEAR
 Art 130, 131, Social Science 235
 English 120, 121, 125
 Home Economics 101, 102, 201, or 202
 Health Education 120, Chemistry 130,
 131
 Library 120
 Physical Education (Year)

SOPHOMORE YEAR
 Chemistry 210, 211, Elective
 Education 230, 232, Psychology 231
 Home Economics 202, 203, 204
 Social Science 270, Home Economics
 232, 245, 246
 Physical Education (Year)

JUNIOR YEAR
 Home Economics 340, 320, 347
 Home Economics 344, Home Economics
 330 or Elective, 304
 Social Science 330, Home Economics 345,
 340
 Elective (Year)
 Physical Education (Year)

SENIOR YEAR
 Teaching 441, Speech 345, Elective
 Teaching 442, Education 343, 345
 Teaching 443, Elective, Elective
 Education 458, Elective, Elective

Requirements for a Minor in General Home Economics:

Home Economics 101, 201, 205, 345, 346, 347.

* 1.5 average is required to qualify for teaching in Vocational schools.

INDUSTRIAL ARTS

FRESHMAN YEAR
 English 120, 121, 125
 Industrial Arts 134, 136, 150
 Laboratory Science or Elective
 (Year)
 Health Educ. 120, Art 129,
 Industrial Arts 135
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR
 Education 230, 232, Psychology 231
 Elective or Laboratory Science (Year)
 Industrial Arts 231, 232, 226
 Industrial Arts 259, 260, Elective
 (4 hrs.)
 Physical Education (Year)

JUNIOR YEAR
 Industrial Arts 336, Speech 345,
 Industrial Arts 340
 Industrial Arts 352, 354, Elective
 Education 343, 344, Elective
 Social Science 233, 234, 254
 Physical Education (Year)

SENIOR YEAR
 Elective (Year)
 Industrial Arts 345 (2 hrs.), 365 (2 hrs.),
 350, 355
 Education 345 or 458
 Teaching 441, 442, 443
 Elective (8 hrs.)

Requirements for a Minor in Industrial Arts:

Industrial Arts 134, 135, 136, 150, 231, and 340A.

Note: I. For good cause exemptions or substitutions will be allowed in Printing or Machine Shop.

MATHEMATICS

FRESHMAN YEAR
 English 120, 121, 125
 Mathematics 130¹, 131¹, 134
 Mathematics 132², Health Educa-
 tion 120, Mathematics 133
 Laboratory Science (Year)
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR
 Education 230, Psychology 231,
 Education 232
 Mathematics 235, 236, 228
 Social Science (2 quarters)³, Elective
 Minor Subject (Year)
 Physical Education (Year)

JUNIOR YEAR
 Education 343, 344, 345
 Mathematics 345, 340, Speech 345
 Mathematics 344, 343, Elective
 Minor Subject (Year)
 Physical Education (Year)

SENIOR YEAR
 Teaching 441, 442, 443
 Electives (12 courses)

Requirements for a Minor in Mathematics:

Mathematics 130, 131, 134, 228, 235, 236. If Solid Geometry was not taken in high school, Mathematics 132 is also required. Students majoring in chemistry or physics may substitute Mathematics 345 for Mathematics 228; it is recommended that they take both courses.

¹ May be omitted with the permission of the Department Head. See prerequisites for Mathematics 131, 134, under "Description of Courses."

² Required only if student does not have high-school credit for Solid Geometry.

³ At least one quarter must be chosen from Social Science 233, 234, 235.

MUSIC

1. (High School Certificate)

FRESHMAN YEAR

Music 146, 147 (4 q. h.), Health
Educ. 120
Music 123, 124, 125 (6 q. h.)
English 120, 121, 125
Laboratory Science (Year)
Applied Music (6 q. h.)
Ensemble (No credit)
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Music 230, 231, 232
Music 236, 237, 238 (6 q. h.)
Education 230, 232, Psychology 231
Social Science (2 quarters),* Music
339
Applied Music (6 q. h.)
Ensemble (3 q. h.)
Physical Education (Year)

JUNIOR YEAR

Music 351, 352, Music 337 (2 q. h.)
Music 356 (2 q. h.), Music 340, Music
347 (2 q. h.)
Education 343, Speech 345, Education
345
Minor Subject (Year)
Applied Music (5 q. h.)
Ensemble (3 q. h.)
Physical Education (Year)

SENIOR YEAR

Music 449 (2 q. h.), 450
Teaching 441, 442, 443
Minor Subject (Year)
Advanced Elective (10 q. h.)
Applied Music (4 q. h.)
Ensemble (3 q. h.)

* At least one quarter must be chosen from Social Science 233, 234, 235.

NOTES:

1. Applied music (21 q. h.), including two years of piano, one or two years of voice and one year of study on some band or orchestral instrument, is required of all music majors.

Minimum proficiency requirements to be satisfied through examination given by the music faculty committee include:

(a) Major applied field: Creditable public appearance in the student's major performance field.

(b) Piano: Ability to play music of hymn-tune difficulty at sight, with good tone and correct rhythm, and ability to improvise a musically acceptable accompaniment for a simple melody.

(c) Voice: Ability to sing pleasingly and without faulty vocal habits and ability to read at sight any part of a four-part song of hymn-tune or simple folk-song difficulty.

2. A student may be excused from any instrumental technique course if he demonstrates to the music faculty committee the ability to play, with good tone and reasonable facility, the instruments involved.

3. Participation in the band, orchestra, and chorus each quarter for four years is required. Credit is given at the end of the spring quarter of the last three years as indicated on page 169.

Requirements for a Minor in Music:

Elementary School Music: Music 123, 124, 125, 230, 231, 228, 449, Piano (3 quarters) and Voice (3 quarters), a total of 26 quarter hours. Ability to teach music satisfactorily in the grades as demonstrated through supervised teaching in the Elementary Training School. Participation in at least one of the following college music organizations each year of residence: Chorus, Cecilian Singers, Orchestra or Band.

High School Vocal Music: Music 123, 124, 125, 230, 231, 449, 340, Piano (3 quarters) and Voice (6 quarters), a total of 29 quarter hours. Ability to develop choral organizations effectively, as demonstrated through supervised teaching in the Eastern State High School. Participation in college choral organizations each year of residence.

Instrumental Music: Music 123, 124, 125, 230, 231; Music 146, 147, 236, 237, 337, 356 (three to five quarters); Music 347, 449, 450, a total of 28 to 32 quarter hours. Ability to teach beginning pupils on band and orchestral instruments, and ability to develop instrumental organizations effectively, as demonstrated through su-

pervised teaching in the Training Schools. Participation in the Band and Orchestra each year of residence.

II. (Limited Special Certificate in Music)

FRESHMAN YEAR

English 120, 121, 125
Laboratory Science (Year)
Music 123, 124, 125 (6 q. h.)
Music 146, 147, 238 (6 q. h.)
Applied Music (6 q. h.)
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Social Science (8 q. h.)*
Health Educ. 120
Education 230, 232, Psychology 231
Music 236, 356, 237, (6 q. h.)
Music 230, 231, 232
Applied Music (6 q. h.)
Physical Education (Year)
Ensemble (3 q. h.)

JUNIOR YEAR

Music 351, 352, 353
Elective, Music 339, Music 337 (2 q. h.)
Education 343, Elective, Elective
Music 449 (2 q. h.), 450 (4 q. h.)
Applied Music (6 q. h.)
Physical Education (Year)
Ensemble (3 q. h.)

SENIOR YEAR

Teaching 441, 442, 443
Speech 345, Music 347
Music 340, Music 451 (2 q. h.)
Elective (Year)
Elective (6 q. h.)
Applied Music (3 q. h.)
Ensemble (3 q. h.)

PHYSICAL EDUCATION

(High School and Special Certificate)

(1) Men

FRESHMAN YEAR

English 120, 121, 125
Physical Education 122, 121, 120
Minor Subject (Year)
Zoology 120, 121, 225
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Physical Education 226, 227, 244
Education 230, 232, Psychology 231
Social Science 233, 234, Health
Educ. 120
Minor Subject (Year)
Physical Education (Year)

JUNIOR YEAR

Physical Educ. 253, Physical Educ. 340
Speech 345
Physical Education 347, 348, 349
Physiology 345, Physical Education
350, 451
Education 343, 344, 345
Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
Physical Education 452, Elective, Elective
Second Minor Subject (Year)
Second Minor Subject (Year)

Requirements for a Minor in Physical Education:

Physical Education 120, 122, 226, 227 (any three of these courses); Physical Education 347, 348, 349, 350, 452 (any three of these courses); Physical Education 121 may be substituted but is not recommended.

(2) Women

FRESHMAN YEAR

English 120, 121, 125
Zoology 120, 121, 225
Physical Education 130, 131, 132
Health Educ. 120, Social Science
(8 q. hrs.)*
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
Physical Education 244, 235,
Physiology 345
Physical Education 233, 234, 236
Minor Subject (Year)
Physical Education (Year)

JUNIOR YEAR

Education 343, 344, 345
Minor Subject (Year)
Physical Education 346, Health Educ.
320, Physical Education 353
Physical Education 352, Speech 345,
Elective
Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
Minor Subject (Year)
Physical Education 450, 451, 456
Minor Subject (Year)

* At least one quarter must be chosen from Social Science 233, 234, 235.

Requirements for a Minor in Physical Education:

Physical Education 346 and 458 and four other courses chosen from P.E. 233, 234, 132, 353, Health Educ. 320.

All majors register for two activities each term of residence and each minor one activity each term of residence unless excused by the staff of the physical education department as having satisfactory skill in the activities. All majors and minors are required to take part in and receive credit in the activities of Women's Athletic Association each term of residence. Majors are required to assist with sports days and the annual dance concert.

PHYSICAL SCIENCE**(1) Chemistry****FRESHMAN YEAR**

Chemistry 130, 131, 132
 English 120, 121, 125
 Mathematics 130, 131, 134
 Elective (Year) (Preferably Physics 130, 131, 132)
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Chemistry 233, 234, 235
 Education 230, 232, Psychology 231
 Health Educ. 120, Social Science (2 quarters)*
 Elective (Year) (Preferably Mathematics 235, 236, and 345 or 228)
 Physical Education (Year)

JUNIOR YEAR

Chemistry 343, 344, 345
 Speech 345, Elective, Chemistry 340
 Elective (Year)
 Education 345, 343, Elective
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Education 344, Elective (2 quars.)
 Chemistry 491, 492, 493 or Chemistry 450, Elective (2 quars.)
 Advanced Elective (Year)

Requirements for a Minor in Chemistry:

Chemistry 130, 131, 132 and three other courses in Chemistry (see page 116).

(2) Physics**FRESHMAN YEAR**

English 120, 121, 125
 Physics 130, 131, 132
 Mathematics 130, 131, 134
 Elective (Year) (Preferably Chemistry 130, 131, 132)
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Physics 236, 239, 240
 Mathematics 235, 236, 345
 Elective (Year)
 Physical Education (Year)

JUNIOR YEAR

Physics (Year)
 Education 343, Education 344, Physics 340
 Social Science (2 quars.)*
 Health Education 120
 Elective (Year)
 Physical Education (Year)

SENIOR YEAR

Education 345, Speech 345, Elective (1 quarter)
 Teaching 441, 442, 443
 Physics (Year) or Elective (Year)
 Advanced Elective (Year)

Requirements for a Minor in Physics:

Physics 130, 131, 132 and three other Physics courses in the 200 series or above.

Possible Minors: Mathematics, Chemistry, Foreign Language (preferably German).

* At least one quarter must be chosen from Social Science 233, 234, 235.

SOCIAL SCIENCE**FRESHMAN YEAR**

English 120, 121, 125
 Social Science 146, 147, 148
 Social Science 233, 234, 235
 Geography 120, 130, Health
 Educ. 120
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Laboratory Science (Year)
 Social Science 254, 255, 256
 Social Science 261, 262, 265
 Social Science 270, 271, 272
 (Any two of the above Social
 Science sequences)
 Physical Education (Year)

JUNIOR YEAR

Education 345, 343, 344
 Speech 345, Geography 447, Social
 Science 340
 Social Science 254, 255, 256 or
 Social Science 261, 262, 265 or
 Social Science 270, 271, 272*
 Elective (Year)
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Advanced Social Science Electives
 (24 q. h.)
 Advanced Electives (Year)

Requirements for a Minor in Social Science:

Social Science 233, 234, 235, and any other year's sequence in Social Science.

* The sequence not already completed.

SPEECH**FRESHMAN YEAR**

Speech 130, 131, 132
 English 120, 121, 125
 Laboratory Science (Year)
 Social Science (Year)*
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Speech Elective, Speech 231 (331),
 Speech Elective
 Education 230, 232, Psychology 231
 Art 256 or Zoology 225, Health
 Educ. 120, Music 229
 Minor Subject (Year)
 Physical Education (Year)

JUNIOR YEAR

Speech Elective, Speech Elective,
 Speech 445
 Education 343, 344, 345
 Minor Subject (Year)
 Elective (Year)
 Physical Education (Year)

SENIOR YEAR

Teaching 441, 442, 443
 Speech 433, Speech Elective, Speech
 Elective
 Elective (Year)
 Elective (Year)

Requirements for a Minor in Speech:

Speech 130, 131, 132, 231, 433, and 445.

Requirements for a Minor in Speech Correction:

Speech 130, 132, 433, 451, 452, 456. A minor in Speech Correction may be counted for graduation only by students who in addition satisfy all requirements for a teachers certificate.

Requirements for a Minor in Speech for students in the Elementary Education curriculum:

Speech 130, 131, 132, 433, and two courses from the following:
 Speech 335, 337, 431, 451.

* At least one quarter must be chosen from Social Science 233, 234, 235.

NOTE: Speech majors and Speech Correction minors who expect to qualify for certification as Speech Correctionists should include the following courses: Speech 451, 452, 455, 456, 457, 458. It is recommended that the preparation also include the following courses: Five courses in Biological Science, preferably including Zoology 225 and Physiology 345; two courses in Social Science in addition to the required year, preferably from Social Science 270, 271, 272, 473; Education 328 or 439, 490; Psychology 451, 452, 455.

III. TWO-YEAR COLLEGE CURRICULA

The Junior College Diploma is granted upon completion of any of the following curricula:

TWO-YEAR GENERAL CURRICULUM

This curriculum offers a wide choice of electives but requires that they conform to a pattern which encourages both depth and breadth of education. The curriculum is recommended to students who have not yet decided upon a field of major interest and wish to explore several fields, to students who have definite plans for transferring to other colleges at the end of the first two years, and to students who wish to round out their education with two years of general college work. It may be adapted readily to needs of students who are interested in business careers.

By proper choice of electives students who complete this curriculum are able to satisfy the requirements for a degree in botany, chemistry, business education, English, foreign languages, geography, mathematics, physics, social science, or zoology with two additional years of residence in the College.

FIRST YEAR

English 120, 121, 125
Laboratory Science¹
Elective²
Elective²
Physical Education
Library 120

SECOND YEAR

Social Science 233, 234, 235
Foreign Language³
Elective⁴
Elective⁵
Physical Education

¹ May be one year of Botany, General Biology, Physics, Chemistry, Zoology or General Physical Science

² Must be selected so that the four subjects are in four different fields. Courses in Education may not be counted as electives.

³ If the student has had two years of foreign language in high school he may substitute an elective.

⁴ Must be the second year in some subject studied during the first year.

⁵ May be the second year in some subject studied during the first year.

COURSES BASIC TO ENGINEERING

It is strongly urged that the student consult the catalogue of the engineering school he plans to enter, and select his elective courses accordingly. A student who has not had high school algebra and geometry must make up these deficiencies without credit before he may register for Mathematics 130, 131, 134; ordinarily this will make it necessary for him to spend three years completing the work in mathematics and physics required in this curriculum.

FIRST YEAR

English 120, 121, 125
Mathematics 130, 131, 134
Electives (24 q. hrs.)*
Physical Education
Library 120

SECOND YEAR

Mathematics 235, 236, 345
Electives (36 q. hrs.)*
Physical Education

* The elective courses must include Physics 130, 131, 132, Chemistry 130, 131, 132, Industrial Arts 231, 232. It is strongly recommended that they also include Physics 239, 240, in which case Physics 130, 131, 132 must be taken during the Freshman year. Additional elective courses should be chosen from the following: Social Science 233, 234, 235, 254, 255, 256, 271, Psychology 231, Health Education 120, Physics 235, 236, 238, and Foreign Languages.

COURSES BASIC TO CHEMICAL ENGINEERING

The courses in this curriculum are planned to parallel closely those required during the first two years in typical chemical engineering curricula. A student who completes this curriculum may return as a junior in the chemistry curriculum of the College.

FIRST YEAR	SECOND YEAR
English 120, 121, 125	Chemistry 233, 234, 235
Chemistry 130, 131, 132	Physics 130, 131, 132
Mathematics 130, 131, 134	Mathematics 235, 236, 345
Health Educ. 120, Industrial Arts 231, 232	Electives (12 q. h.)
Physical Education	Physical Education
Library 120	

Recommended electives:

Chemistry 343, 344, 345, Biological Sciences, Foreign Language, Social Sciences, Geography.

PRE-MEDICAL COURSES

The courses in this curriculum correspond to courses usually required for admission to medical schools. The student should consult the catalogue of the school he proposes to enter before choosing electives.

FIRST YEAR	SECOND YEAR
Chemistry 130, 131, 132	Chemistry 234, 343, 344
English 120, 121, 125	Foreign Language (Year)
Zoology 120, 121 and 232 or 225	Physics 130, 131, 132
Mathematics 130, 131, Elective (4 q. h.)	Social Science (Year)
Physical Education	Physical Education
Library 120	

Recommended electives:

Chemistry 235, 345, 346, Psychology 231, Education 232, Zoology 346, 446, Botany 120, 121, 122, Mathematics 134, Social Sciences, Geography.

PRE-DENTAL COURSES

FIRST YEAR	SECOND YEAR
Chemistry 130, 131, 132	Chemistry 343, 344, Zoology 122
English 120, 121, 125	Foreign Language (Year)
Zoology 120, 121, Health Educ. 120	Physics 130, 131, 132
Electives (12 q. h.)	Electives (12 q. h.)
Physical Education	Physical Education
Library 120	

Recommended electives:

Chemistry 345, 234, 235, Psychology 231, Zoology 346, 446, Botany 120, 121, 122, Mathematics 130, 131, Social Sciences, Geography.

COURSES BASIC TO STUDY OF JOURNALISM

FIRST YEAR	SECOND YEAR
English 120, 121, 125	English 235, 236, 237, or 230, 231, 234
Laboratory Science (Year)	English 210J, 211J, 212J
Elective ¹	Social Science 233, 234, 235
Elective ²	Elective ³
Physical Education	Physical Education
Library 120	

¹ Students who have not had foreign language in high school should elect a year of foreign language.

² Social Science 146, 147, 148 are strongly recommended.

³ Art 237, 238, and Music 229 are recommended.

PRE-LEGAL COURSES

FIRST YEAR
 Social Science 233, 234, 235
 English 120, 121, 125
 Health Educ. 120, Social
 Science 147, 148
 Laboratory Science (Year)
 Physical Education
 Library 120

SECOND YEAR
 Social Science 254, 255, 256
 Business Education 230, 231, 232
 Electives (24 q. h.)
 Physical Education

Note: A student may adapt this curriculum to the four-year Social Science curriculum if he wishes to remain in the College.

Recommended electives:

Social Science, Speech, Latin.

PRE-NURSING COURSES

This curriculum is planned to satisfy an increasing demand that nurses take two years of college work before beginning their professional training. The student should consult the catalogue of the school she proposes to enter for specific entrance requirements.

FIRST YEAR
 English 120, 121, 125
 Botany 120, Chemistry 130, 131
 Zoology 120, 121, Botany 235
 Elective (Year)
 Physical Education
 Library 120

SECOND YEAR
 Chemistry 210, Psychology 231,
 Zoology 225 or Zoology 232
 Social Science 270 or 271
 Electives (32 q. h.)
 Physical Education

Recommended electives:

Chemistry 132, 211, 212, 261, Foreign Language, Home Economics 102, Physics 322, Zoology 230, 231, 232, 346, Social Sciences, Geography.

PRE-MEDICAL LABORATORY TECHNICIAN

FIRST YEAR
 English 120, 121, 125
 Chemistry 130, 131, 132
 Zoology 120, 121, 227
 Electives (12 q. h.)
 Physical Education
 Library 120

SECOND YEAR
 Chemistry 234, 343, 344 (or 343, 234,
 235)
 Biological Science (12 q. h.)
 Electives (12 q. h.)
 Electives (12 q. h.)
 Physical Education

Recommended electives for biological science:

Botany 120, 235; Zoology 225, 346, or 227.

Recommended electives:

Chemistry 233, 344, 345, or 212; Physics 130, 131, 132; Mathematics 130, 131; Business Education 110, 111, Social Science 233, 234, 235.

COURSES BASIC TO PHARMACY

FIRST YEAR
 English 120, 121, 125
 Chemistry 130, 131, 132
 Mathematics 130, 131, Health
 Educ. 120
 Zoology 120, 121, Botany 120
 Physical Education
 Library 120

SECOND YEAR
 Physics 130, 131, 132
 Chemistry 233, 234, 235
 Electives (24 q. h.)
 Physical Education

Recommended electives:

Botany 121, 122, Chemistry 343, 344, 345, Foreign Language, Social Sciences, Geography.

COURSES BASIC TO GENERAL AND VOCATIONAL AGRICULTURE, HORTICULTURE, FLORICULTURE, AND FORESTRY

FIRST YEAR
 English 120, 121, 125
 Botany 120, 121, 122
 Chemistry 130, 131
 Health Educ. 120, Electives
 (12 q. h.)
 Physical Education
 Library 120

SECOND YEAR
 Botany 344, 231, 235 (or 232)
 Chemistry 210, 211, Geography 236 or
 Elective
 Electives (12 q. h.)
 Electives (12 q. h.)
 Physical Education

Note: If vocational agriculture is planned Education 230 and Psychology 231 should be added. Students who plan to study forestry should take Chemistry 132 and Mathematics 130, 131, 134 in the first year. The second year's program should be planned after consultation with the college of forestry the student plans to enter.

Recommended electives:

Botany 231, 235, 344, 349, 351, 346, Chemistry 212, Zoology 120, 121, 122, Geography 221, 233, 236, 130, Social Science 233, 234, 235, 330, Industrial Arts 231, 232, 233.

COURSES BASIC TO PROFESSIONAL WORK IN DIETETICS

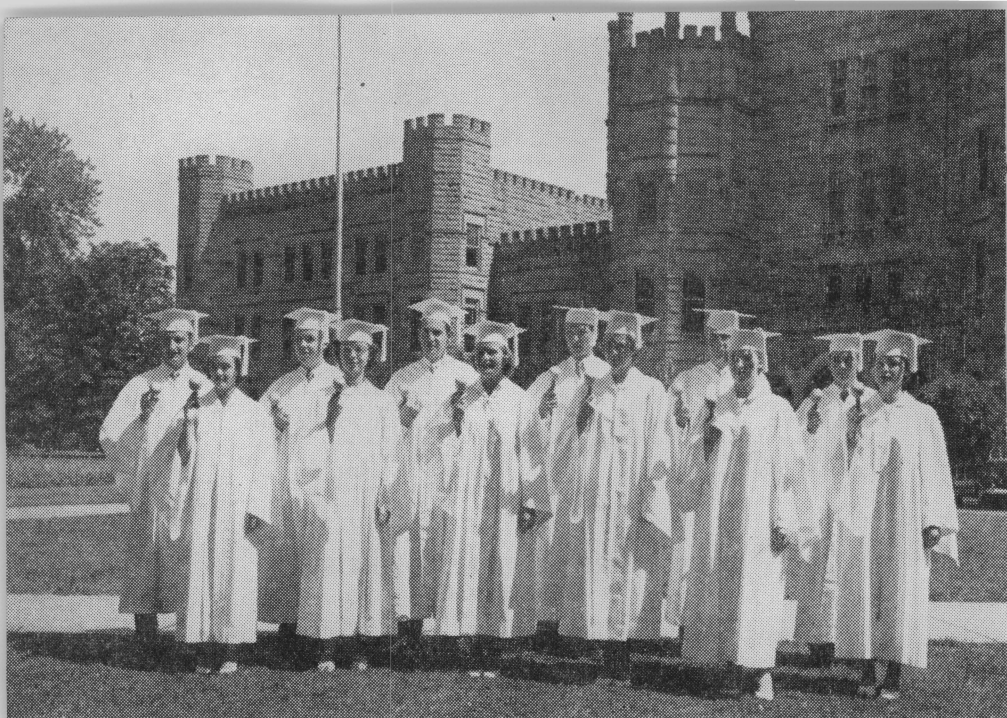
This curriculum is planned for students who expect to take up advanced work in dietetics at the end of two years. Students who complete this curriculum may also transfer to the home economics curriculum of the College with junior status.

FIRST YEAR
 English 120, 121, 125
 Home Economics 102, 101, 202
 Botany 120, Chemistry 130, 131
 Art 130, 131, Social Science 235
 Physical Education
 Library 120

SECOND YEAR
 Chemistry 210, 211, 212
 Home Economics 203, 204, 346
 Home Economics 347, Zoology 225,
 Botany 235
 Health Educ. 120, Psychology 231,
 Elective
 Physical Education

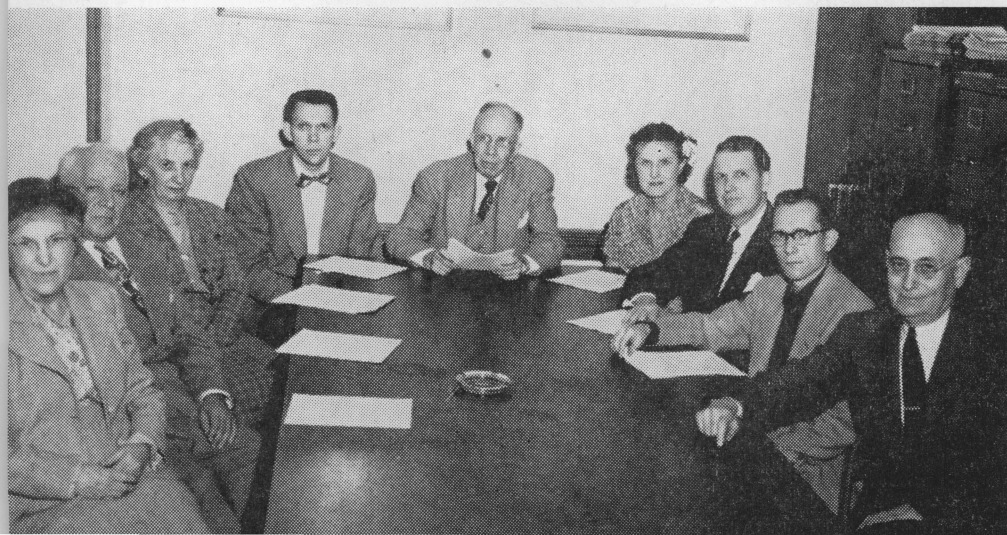
Recommended electives:

Physics 130, Social Science 330, Business Education 230, Mathematics 130, Speech 130.



Above—Junior aides and marshals for 1953 commencement exercises.

Below—Group which initiated organization of the Eastern Illinois State College Foundation, non-profit organization to receive gifts and bequests, in 1953. President is A. L. Riche, ex-'10, head of table.



COURSES PREPARATORY TO THE STUDY OF CONSERVATION

A sub-professional curriculum which has been developed with the cooperation and advice of administrators, researchers and technicians of the Soil Conservation Service.

FIRST YEAR

English 120, 121, 125
 Mathematics 130, 131, 133
 Botany 120, 121, 122
 Chemistry 130, 131, Geography 120
 Physical Education
 Library 120

SECOND YEAR

Physics 130, 131
 Chemistry 210
 Geography 221, 233, 350, 448
 Industrial Arts 231, 232
 Botany 351
 Social Science 234, 235
 Physical Education

COURSES PREPARATORY TO THE STUDY OF GEOLOGY

The courses in this curriculum correspond closely to freshman and sophomore courses ordinarily required in curricula in Geology.

FIRST YEAR

English 120, 121, 125
 Chemistry 130, 131, 132
 Mathematics 130, 131, 134
 Industrial Arts 231, 232
 Geography 120
 Physical Education
 Library 120

SECOND YEAR

Physics 130, 131, 132
 Mathematics 235, 236, 345
 Geography 130, 233, 236
 Suggested Electives (12 q. hr.)
 Physical Education

III. DESCRIPTION OF COURSES

ACCOUNTING

(See Business Education 230, 231, 232, 460, 461, 462)

ART

Note: All studio courses meet for three double periods and one single period which is used for planning, discussions and reports. Additional discussions may be incorporated into the studio hours. The art history and appreciation and the art education courses meet four fifty-minute periods a week.

Each course listed below may require the purchase of materials by the student. In such cases, completed projects become the property of the student.

100. DRAWING I. Fall. (4 q. hrs.)

Freehand drawing in various media including pencil and charcoal. Introduction to perspective. Outdoor sketching included.

Required in the art curriculum.

101. DRAWING II. Winter. (4 q. hrs.)

Development of individual expression and drawing techniques. Emphasis on drawing from life.

Required in the art curriculum.

102. DRAWING III. Spring. (4 q. hrs.)

Individual interpretation and experimentation in varied media. Continuation of drawing from life and outdoor sketching.

Required in the art curriculum.

110. DESIGN I. Fall. (4 q. hrs.)

Introduction to basic design forms. Color, principles and materials. Individual experimentation.

Required in the art curriculum.

111. DESIGN II. Winter. (4 q. hrs.)

Development of color and form in various media. Problems in two- and three-dimensional organization. Continued experimentation with materials.

Required in the art curriculum.

112. DESIGN III. Spring. (4 q. hrs.)

Emphasis on the use of space in three-dimensional form, in-

tegrating color and materials for individual expression of design concepts.

Required in the art curriculum.

129. ART PRINCIPLES FOR INDUSTRIAL ARTS MAJORS.

Fall and spring. (4 q. hrs.)

Introduction to basic concepts of drawing, color, and design, with major emphasis on drawing techniques, perspective, and black-board illustration. Practice, discussions, and analysis of illustrative materials related to industrial arts.

Required in the industrial arts curriculum.

130. INTRODUCTION TO ART. Fall and winter. (4 q. hrs.)

An introductory course in problems of design, color, and drawing developed with a variety of media: pencil, colored chalk, ink, water color, tempera, and three-dimensional materials. Problems related to the major field.

Required in the home economics and elementary curricula.

131. APPLIED DESIGN I. Winter. (4 q. hrs.)

The application of decorative design and color to weaving, block printing, stenciling, lettering, and posters.

Required in the home economics curriculum. Prerequisite: Art 130.

220. CRAFTS I. Fall. (4 q. hrs.)

Experimentation and individual expression in work in two-dimensional design with materials associated with textiles—weaving, block print, stencil, silk screen, batik.

221. CRAFTS II. Winter. (4 q. hrs.)

Work with materials in forms which emphasize volume design—clay, plastics, metal.

222. CRAFTS III. Spring. (4 q. hrs.)

Continued work combining two and three-dimensional design; new materials and new ways of combining materials including leather, wood, metal and enamels.

224. ART FOR TEACHERS IN THE ELEMENTARY GRADES.

Winter and spring. (4 q. hrs.)

The teaching of art in the elementary grades with practice in adapting art principles, processes and projects to different grade levels; work in curriculum making and in providing art background for room activities; training in lettering, craft techniques, and figure drawing.

Required in the elementary curriculum. Prerequisite: Art 130.

226. LIFE DRAWING I. Omitted 1954-55. (4 q. hrs.)

Constructive figure drawing from costumed model. Study of artistic anatomy and composition. Pencil, charcoal, graphite stick, lithograph, and conte crayon used.

Required in the art curriculum.

227. LETTERING. Spring. (4 q. hrs.)

The development of ability to letter, the study of styles of lettering, and application of hand lettering to various problems. Pen and brush work.

Elective.

230. PAINTING I. Fall. (4 q. hrs.)

Introduction to painting techniques and manner of expression with emphasis on water color and tempera as mediums.

Required.

231. PAINTING II. Winter. (4 q. hrs.)

The use of oil paint and pastel as painting mediums, continued study of techniques. Use of model for figure compositions.

Required.

232. PAINTING III. Spring. (4 q. hrs.)

Use of ink with brush and pen, and other new mediums such as soy bean paint. Work outdoors as well as in studio.

Required.

234. APPLIED DESIGN II. Spring. (4 q. hrs.)

Applied decorative design developing techniques in the crafts such as textile decoration, silk screen, air brush, wood crafts, leather, metal and advanced weaving. Relation of crafts to club and summer camp work and to occupational therapy. Students are given freedom to work out problems according to individual interests.

Required in the art curriculum. Prerequisite: Art 131.

235. COSTUME DESIGN. Fall. (4 q. hrs.)

The designing of costumes for various type figures, emphasizing the student's individual needs. Style and color in relation to personality. History of costume.

Elective.

239. CERAMICS. Winter. (4 q. hrs.)

Study of three methods of pottery making—coil, slab and casting. Modeling of animals and figures. Glazing, firing of the kiln.

Recommended in the art curriculum.

256. STAGE DESIGN. Fall. (4 q. hrs.)

Stage composition; color planning and designing of stage accessories.

Recommended in the art curriculum. Alternate requirement in speech curriculum.

336. (236). HISTORY AND APPRECIATION I. Fall. (4 q. hrs.)

The development of the visual arts from pre-historic times to the medieval period; their use by man in his natural and social environment. The architecture, sculpture, painting, weaving, pottery and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

Required in the art curriculum.

337 (237). HISTORY AND APPRECIATION II. Winter. (4 q. hrs.)

The art of the medieval period and the Renaissance through the seventeenth century. The architecture of the Romanesque and Gothic periods and the painting of the Renaissance with a brief survey of the art of the Far East are important topics.

Required in the art curriculum.

338 (238). HISTORY AND APPRECIATION III. Spring (4 q. hrs.)

The development of the visual arts since the beginning of the eighteenth century with emphasis upon art in America. The relation of art to contemporary living.

Required in the art curriculum.

340. METHODS OF TEACHING ART IN HIGH SCHOOL.

Spring. (4 q. hrs.)

Study of the functions of art in the secondary school curriculum. Instructional practice in teaching techniques of various media and processes. Lesson, unit and curriculum planning.

Required in the art curriculum.

344. THE HOME TODAY. Winter. (4 q. hrs.)

The selection, planning and furnishing of homes according to family needs. Survey of developments in housing, materials, and furniture styles. Individual planning of furnishings, color schemes, fabrics and accessories with layouts and elevations.

Required in the art curriculum.

345. METHODS OF TEACHING ART IN ELEMENTARY GRADES.

Fall. (4 q. hrs.)

Study of function of art in the educational experiences of the pupil in the elementary grades. Problems in adapting the various art media and processes to the different grade levels. Lesson, unit and curriculum planning.

Required in the art curriculum. Should be substituted for Art 224 by art minors in elementary curriculum.

346. LIFE DRAWING II. Winter. (4 q. hrs.)

Advanced work with costumed model and from imagination in figure composition. Use of the figure in drawing, painting, advertising, and illustration.

Elective.

350. PAINTING IV. Omitted 1954-55. (4 q. hrs.)

Painting of still life and landscape in water color, tempera, and oil.

Elective.

351. ART BACKGROUNDS. Spring. (4 q. hrs.)

A survey of our art heritage, its development from the life of the different periods in history, with sufficient criticism to form a basis for the evaluation of contemporary art for individual use and appreciation.

Required in the English curriculum.

352. PAINTING V. Omitted 1954-55. (4 q. hrs.)

Outdoor and studio work in landscape painting in oils and other media. Analysis of composition of landscape painters.

Required in the art curriculum as an alternate with Art 447.

355. PAINTING VI. Omitted 1954-55. (4 q. hrs.)

Painting in water color; drawing in ink with pen and brush. Study of these media as means for individual expression and their application to illustration and advertising.

Required in the art curriculum.

**400, 401, 402. INDIVIDUAL PROBLEMS. Fall, winter, spring.
(4 q. hrs. for each course.)**

The student may choose areas of work according to interest, need for experience, or development of skill and understanding. Problems should be planned in one specific area or closely related areas for any one quarter.

447. COMPOSITION I. Omitted 1954-55. (4 q. hrs.)

The development of original work in decorative and pictorial design based on previous training in art fundamentals and media.

Required in the art curriculum as alternate with Art 352.

448. COMPOSITION II. Winter. (4 q. hrs.)

Advanced work emphasizing three-dimensional organization of form. Individual projects and choice of materials.

Required in the art curriculum as alternate with Art 455.

449. COMMERCIAL DESIGN I. Spring. (4 q. hrs.)

Work in advertising, including lettering, posters, layout, art planning for school yearbooks and current advertising problems.

Silk screen, airbrush, and block printing techniques developed with study of other reproductive processes.

Required in the art curriculum.

453. PSYCHOLOGY OF ART. Fall. (4 q. hrs.)

The study of the human or psychological basis for art expression. Analysis of art ability in terms of aptitudes, skills, and creative capacities. Use of tests in art.

Required in the art curriculum. May be taken for credit toward the Master's degree.

454. ART IN JOURNALISM. Omitted 1954-55. (4 q. hrs.)

The problems of lay-out, illustration, and color in advertising, with reproductive processes.

455. PRINT MAKING. Winter. (4 q. hrs.)

Study of print processes and outstanding print makers. Laboratory work in serigraphs, etchings and advanced block printing.

Required in the art curriculum.

457. SUPERVISION AND GUIDANCE IN ART. Spring. (4 q. hrs.)

Techniques of supervision—the work of the director, consultant, or resource person in art in the public schools. Curricular and vocational guidance—opportunities in art for individual development.

Elective.

458. ART SEMINAR. Omitted 1954-55. (4 q. hrs.)

The integration of art experiences in practice work, history of art, and art education as a final preparation for teaching. Investigation of problems in art education; projects in original work selected according to individual interests.

Prerequisite: Permission of instructor.

460. COMMERCIAL DESIGN II. Spring. (4 q. hrs.)

The study of modern developments in the field of design emphasizing the designing of articles for manufacture and work in display advertising.

Required in the art curriculum.

510. MATERIALS FOR DESIGNING I. Winter. (4 q. hrs.)

Experimentation with various materials, limitations and possibilities, adapted to teaching situations. Problems varied to meet individual needs in design areas.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

520. ANALYSIS OF PAINTING TECHNIQUES. Fall. (4 q. hrs.)

Study of techniques and media used by painters in the development of the different styles of painting, with opportunity for ex-

perience in working in each according to individual choice.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

550. CONTEMPORARY TRENDS IN VISUAL ARTS.

Summer. (4 q. hrs.)

The development of the visual arts today—materials, forms, purpose, treatment; basis for evaluation and role in contemporary living.

Open only to graduates.

560. MATERIALS FOR DESIGNING II. Spring and summer.

(4 q. hrs.)

Analysis and manipulation of design materials—fibers, metal, clay, wood—for understanding of expression and study for teaching. Advanced work in spatial concepts, textiles, and organization of form and color.

Open only to graduates.

570. PAINTING PROBLEMS. Summer (4 q. hrs.)

Individual work in various media for the purpose of analyzing possibilities for pictorial expression.

Open only to graduates.

591. PROBLEMS IN ART EDUCATION. Summer. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools.

Open only to graduates.

125, 225, 325, 425. SEMINAR IN ART EDUCATION. Spring.

(1 q. hr. each year.)

Discussions of problems in art and the teaching of art; visiting of schools, industries, art centers and museums; participation in community activities when possible, attendance at special lectures on art; hanging of exhibitions; written and oral reports; development of resource files.

Required in the art curriculum.

BIOLOGY (GENERAL)

(Taught in the Department of Zoology)

126, 127, 128. GENERAL BIOLOGICAL SCIENCE.

Fall, winter, spring. (4 q. hrs. for each course.)

An integrated course covering the fundamentals of botany, zoology, and physiology. Local flora and fauna are studied in the fall, followed by surveys of the large plant and animal groups. The cell is considered as the unit of living things.

The structure, modification, and function of cells are studied.

This is followed by a consideration of the physical and chemical properties of the food and energy relations of living things. Cell division, reproduction, and the laws of heredity are the next units discussed. Then follows a study of the spring forms found in the local flora and fauna.

Required in the elementary curriculum. Does not count as part of a minor in botany or zoology. Fee \$1.00 for each course.

129. ELEMENTARY SCIENCE. Omitted 1954-55. (4 q. hrs.)

A course planned to acquaint the teacher with content suitable for an elementary science course and with the technique of the unit method which is recommended in bulletins on the elementary curriculum issued by the Illinois State Department of Instruction. Offered at varying grade levels with the co-operation of the grade critic.

BOTANY

Botany 120, 121, 122 is planned as a general cultural course as well as an introduction to further study of the biological sciences. It satisfies the core curriculum requirement of a year of a laboratory science.

120. GENERAL BOTANY. Fall and winter. (4 q. hrs.)

A course designed to give the student a knowledge of the fundamental life processes concerned in the growth of plants; the manufacture of the foods by green plants that are essential for all plants and animals; the structure of leaves, stems, and roots in sufficient detail to understand the processes that result in growth and the effect of environment upon these processes.

Required in the botany, zoology, pre-agriculture, pre-forestry, and pre-conservation curricula. Prerequisite for Botany 235. Fee \$1.00.

121. GENERAL BOTANY. Winter. (4 q. hrs.)

This is a study of the reproductive phase of plant life; a study of the reproduction of flowering plants leading to the formation of seeds and fruits; the mechanism of heredity and the quality of hybrids. The last part of the work gives the student the opportunity of surveying the natural groups of the plant kingdom with their development and environmental relationships and their economic significance.

Required in the botany, zoology, pre-agriculture, pre-forestry, and pre-conservation curricula. Prerequisite. Botany 120. Fee \$1.00.

122. GENERAL LOCAL FLORA. Spring. (4 q. hrs.)

An introduction to the geographic and physiographic ecology of North America; the identification of trees in winter and summer

condition, of the fresh water algae, liverworts, mosses, ferns, and herbaceous flowering plants and shrubs as the season advances, with a study of the structures essential for the recognition of these plants.

This course is of special value for those who will teach biological science in the secondary schools or nature study in the elementary schools, and for those who want to know plants and how to name them.

Required in the botany, zoology, pre-agriculture, pre-forestry, and pre-conservation curricula. Prerequisite: Botany 120 and 121, or permission of the instructor.

230. THE MORPHOLOGY OF GREEN PLANTS. Fall. (4 q. hrs.)

A study of the vegetative and reproductive structures of the green plants, algae, liverworts, mosses, ferns and fern allies, conifers, and flowering plants, and a comparative study of their typical life histories. Many specimens of these groups are available and a special effort is made to have living plants for class study. A superior collection of microscopic and lantern slides is available for the demonstration of all structures.

Required in the botany curriculum. Prerequisite: Botany 120 and 121. Fee \$1.00.

231. AN INTRODUCTION TO FUNGI AND PLANT DISEASES.

Winter. (4 q. hrs.)

The structure, life histories, and physiology of the groups of fungi (non-green plants) and their relation to decay, fermentation, and the important plant diseases, with methods of control especially for those causing disease. There are available comprehensive collections of fungi and microscopic slides for the demonstration of the structures of the various types of fungi.

Required in the botany curriculum. Prerequisite: Botany 120 and 121. Fee \$1.00.

232. ECONOMIC BOTANY. Spring. (4 q. hrs.)

A study of the methods of plant propagation, the control of the life processes and regulation of the plant's environment for greater economic return as practiced in agriculture and industry; the effect of environmental factors on vegetation centers which have become crop centers; the production of carbohydrates, fats, fibers, lumber, spices, drugs, and other plant products as they occur in world trade. There are field trips to some of the more important industrial concerns using plants or plant products.

Required in the botany curriculum. Prerequisite: Botany 120 and 121. Recommended as an elective for geography and social science majors and as an elective in other curricula.

235. BACTERIOLOGY. Fall and spring. (4 q. hrs.)

A study of the occurrence, numbers, distribution, isolation, and

culture of bacteria and other fungi; the microbiology of foods, water, and sewage; the use of micro-organisms for the production of foods and other economic products.

Required in pre-nursing, pre-medical laboratory technician, and basic dietetics curricula. Recommended as a unit for a botany minor, and for pre-agriculture, pre-horticulture, pre-floriculture. Elective in other curricula. Prerequisite: Botany 120. A year of chemistry is recommended. Fee \$1.00.

301. TREES, SHRUBS AND WOODS. Summer. (4 q. hrs.)

The identification of trees and shrubs in summer; the geographic and physiographic distribution of the trees of North America; the choice of trees for different kinds of planting; the identification of the common woods used for furniture and building materials. A course designed for senior college students who have not had any courses in botany. It is planned for the use of students in "everyday living" and for teachers of the elementary and secondary school. There are field trips into the nearby forests, to Turkey Run State Park and others.

Elective.

335. BACTERIOLOGY (for Home Economics Majors). Winter and spring. (4 q. hrs.)

A course in microbiology for home economics students emphasizing the relationships of bacteria, fungi, and other related micro-organisms to food preservation, processing, and spoilage. The techniques of culturing and studying bacteria are used in determining the sanitary quality of water, milk, and other food products. Field trips are made into the community correlating work of the classroom with sanitary practices being used by municipalities and industries.

Prerequisite: Senior college standing.

340. METHODS OF TEACHING THE BIOLOGICAL SCIENCES.

Winter. (4 q. hrs.)

This is a study of the methods of teaching high school botany and the part it takes in the biological science taught in high schools. A part of the training is the collection and preparation of material and the setting-up of experiments used in the teaching of high-school classes.

Required of botany majors and as a prerequisite to practice teaching. Prerequisite: Two years' work in college botany and two years' work in college zoology.

343. MICROTECHNIC. Winter. (4 q. hrs.)

A course designed to give the student the opportunity of learning the techniques of the preparation of microscopic slides for use in teaching; fresh sections, temporary slides, permanently stained slides, and serial sections. The student can make enough microscopic slides

of good quality to use as teaching aids in teaching high-school classes. It is desirable that students shall have had a year of chemistry.

Required in the botany curriculum. Prerequisite: Botany 120, 121, 122, and 230 or its equivalent. Fee \$1.00.

344. EXPERIMENTAL PLANT PHYSIOLOGY. Fall. (4 q. hrs.)

A qualitative and quantitative study by experiments and demonstrations of the chemical and physical processes that result in the growth of plants and the application of this knowledge in solving problems of the growth and culture of plants.

Required in the botany curriculum. Prerequisite: Botany 120 and 121 and one year of chemistry. Fee \$1.00.

345. PROBLEMS IN BOTANY. Any quarter. (4 q. hrs.)

This is designed to meet the needs of individual students who wish to do advanced work in some special field of botany. The student may choose the work he wishes to do.

Prerequisite: Five quarters of botany and the instructor's permission.

346. PLANT ANATOMY AND WOOD IDENTIFICATION.

Spring. (4 q. hrs.)

A critical study of the development of the tissues of leaves, stems, and roots of seed plants; the origin and differentiation of tissues and organs; the common ecological variations and hereditary types of structures; the anatomy of woods, and ways of identifying the common commercial woods.

Required in the botany curriculum. Prerequisite: Botany 120, 121, and 122. Fee \$1.00.

347. SPECIAL PROBLEMS IN BOTANY. Any quarter. (4 q. hrs.)

A continuation of Botany 345.

Prerequisite: Five quarters of botany and permission of the instructor.

349 (249). SYSTEMATIC BOTANY. Fall. (4 q. hrs.)

A study of the grasses and sedges and other monocotyledons; a study also of the other flowering plants not included in Botany 122. There are trips for the observation and collection of plants from both forest and prairie habitats.

Elective. Recommended especially to students with majors in botany, zoology, and to students in pre-agriculture, pre-forestry, and pre-conservation curricula. Prerequisite: Botany 120, 121, 122.

350 (250). GENETICS. Winter. (4 q. hrs.)

The problems of plant and animal inheritance explained by the biological processes involved in heredity. The general topics are simple Mendelian inheritance, hybrid segregation and propagation of hybrids, fluctuations and mutations and the genetic background explaining the

change in kind (plant and animal). There are field trips to hybrid corn plants and to experimental and commercial greenhouses showing the application of genetic principles.

Elective. Prerequisite: One year of botany or zoology.

351 (251). PLANT ECOLOGY. Spring. (4 q. hrs.)

A study of the geographic and physiographic distribution of plants. The common plant societies and the plant successions leading to the development of forests and grasslands. Field trips are made to illustrate phases of the work.

Elective. Recommended especially to students in vocational agriculture, horticulture, pre-forestry, and floriculture curricula, and to others who are interested in problems of conservation of natural resources. Prerequisite: Botany 120, 121, 122, and 349 or permission of the instructor.

**445, 446, 447. ADVANCED BOTANY. Any quarter.
(4 q. hrs. for each course.)**

A course designed to meet the needs of individual students who wish to do advanced work in some special field of botany. The student may choose the work he wishes to do.

Prerequisite: A minor in botany here or its equivalent elsewhere and the instructor's permission. Open only to seniors or graduates. May be taken for credit toward the Master's degree.

550. THE SCIENCE OF PLANT LIFE. Any quarter. (4 q. hrs.)

A course designed for graduates who wish to know the fundamentals of plant science. The course is intended to build an appreciation of the values of plants in the everyday living of both pupils and patrons and the ability to become conversant with the common problems of the agriculturist and of the home gardener.

Not open to students who have a minor in botany. Open only to graduates. May be offered toward the Group III requirements for the Master's degree. Fee \$1.00.

552. MICROBIOLOGY FOR EVERYDAY LIVING.

Any quarter. (4 q. hrs.)

A course designed for graduates who have not had the opportunity for training in this field in their undergraduate work. A lecture-demonstration course with field trips to illustrate the application of the control of bacteria, other fungi, algae, and protozoans concerned with food spoilage and preservation, purification of water supplies, and sewage disposal in central Illinois. It is planned to be useful for all teachers from the first grade to the twelfth and for school administrators that all may have a basic understanding of such information as it applies to their schoolrooms, school activities, and community problems.

Not open to students who have credit for Botany 235. Open only to graduates. May be offered as a part of Group III requirements for the Master's degree. Fee \$1.00.

BUSINESS EDUCATION**110. TYPEWRITING. Fall. (4 q. hrs.)**

Elementary instruction in typewriting. The work includes development of correct writing habits, drills in rhythm, simple tabulation, and letter writing. Speed requirement: minimum of twenty net words per minute for five minutes with three errors or less.

Fee \$1.00.

111. TYPEWRITING, Continued. Winter. (4 q. hrs.)

This course includes the typewriting of different types of business letters, special attention being given to the form, arrangement, and style. It also includes the typewriting of telegrams, cablegrams, radiograms, manuscripts, reports, rough drafts, displayed matter, tabulations, billing and common forms of legal documents. Speed requirement: minimum of thirty net words per minute for five minutes with three errors or less.

Prerequisite: Business Education 110 or the equivalent. Fee \$1.00.

112. TYPEWRITING, Continued. Fall and spring. (4 q. hrs.)

In this course, skill development is continued at a higher level. More advanced work is given in business letters, telegraphic communications, tables and other statistical matter, billing and business instruments, legal and business documents, and related typing projects. Speed requirements: minimum of forty net words per minute for five minutes with three errors or less.

Prerequisite: Business Education 110, 111 or the equivalent. Fee \$1.00.

120. PENMANSHIP. Every quarter. (1 q. hr.)

The course in penmanship is designed to give the students an opportunity to improve their own handwriting, both at the desk and at the blackboard, and at the same time they are given methods of teaching for each grade. The students make individual progress charts and learn how to grade their own handwriting as well as that of the children from various standard handwriting scales. The students who have made satisfactory progress at the end of the first six weeks may start writing for their teachers' certificates. During the last six weeks, these students are given a chance to observe and to teach handwriting in the Elementary Training School. This course not only enables the students to acquire a thorough knowledge of the subject, but gives them an opportunity to complete all requirements for the teachers' certificates in handwriting.

Required in the elementary and business education curricula.

123. SHORTHAND. Fall. (4 q. hrs.)

A beginning course in the study of Gregg shorthand. Effort is concentrated on a thorough study of principles, brief forms, and phrasing. Elementary dictation and transcription powers are devel-

oped concurrently with the training in theory. No credit for less than one year's work.

124. SHORTHAND, Continued. Fall and winter. (4 q. hrs.)

A study of the principles of the shorthand system is completed. The ability to take dictation and transcribe both business letters and articles is further developed. No credit for less than one year's work.

Prerequisite: Business Education 123 or the equivalent.

125. SHORTHAND, Continued. Winter and spring. (4 q. hrs.)

Speed combined with accuracy is the aim of this course. Shorthand theory is reviewed and shorthand vocabularies are further developed. Speed requirement: minimum of sixty words per minute for five minutes to be transcribed with 98 per cent accuracy. No credit for less than one year's work.

Prerequisite: Business Education 123, 124 or the equivalent.

140. BUSINESS MATHEMATICS. Every quarter. (4 q. hrs.)

This course is a preparation for the courses in accounting. It covers the simpler exercises and problems of everyday business calculations—including such topics as the use of aliquot parts, practical short methods of calculations, fractions, percentage, trade and cash discount, profit and loss, marked price, commission and brokerage, banker's, accurate, and compound interest, bank discount, installment buying, taxes, fire insurance, stocks and bonds, and depreciation.

141. BUSINESS CORRESPONDENCE. Every quarter. (4 q. hrs.)

The aim of this course is to train students in the use of correct and forceful English for business purposes. Attention is given to the various types of business correspondence, such as: application letters, sales letters, credit letters, collection letters, adjustment letters, form letters, and business reports. Ample practice is given in writing these letters.

Prerequisite: English 120 and 121.

142. INTRODUCTION TO BUSINESS. Every quarter. (4 q. hrs.)

The purpose of this course is to acquaint students with the complexity of business institutions and practices, to enable them to understand the individual characteristics and relationships of businesses and help them to decide which fields of specialization they wish to follow.

210. ADVANCED TYPEWRITING. Fall and winter. (4 q. hrs.)

A course in the development of superior skill in typewriting. Additional and remedial training in speed and accuracy, and study of advanced typing projects are included. Speed requirement: minimum of fifty net words per minute for five minutes with three errors or less.

Prerequisite: Business Education 110, 111, 112 or the equivalent.

Fee \$1.00.

211. ADVANCED TYPEWRITING, Continued. Winter and spring. (4 q. hrs.)

This course is designed for those who wish to become skilled in typewriting. Remedial instruction for individual typewriting difficulties is given. Speed and accuracy are the objectives. Speed requirement: minimum of sixty net words per minute for five minutes with three errors or less.

Prerequisite: Business Education 210 or the equivalent. Fee \$1.00.

212. PRINCIPLES AND PROBLEMS OF OFFICE PRACTICE.

Every quarter. (4 q. hrs.)

A practical course in the subject matter of office practice, including filing, duplicating devices, voice-writing equipment, and adding and calculating machines.

Prerequisite: Business Education 110 and 111, or permission of the instructor. Class limited to twenty-four. Fee \$1.00.

223. ADVANCED SHORTHAND. Fall and spring. (4 q. hrs.)

This course is devoted to the development of rapid dictation and transcription of business letters. The material is selected from a wide field with a view to developing the student's control of a comprehensive vocabulary and of testing the ability to take dictation on various subjects. Speed requirement: minimum of eighty words per minute for five minutes to be transcribed with 98 per cent accuracy.

Prerequisite: Business Education 123, 124, 125 or the equivalent. Fee \$1.00.

224. ADVANCED SHORTHAND, Continued. Winter. (4 q. hrs.)

Expertness in taking dictation and transcribing shorthand rapidly and accurately is the aim of this course. Speed requirement: minimum 100 words per minute for five minutes to be transcribed with 98 per cent accuracy.

Prerequisite: Business Education 223 or the equivalent. Fee \$1.00.

225. SECRETARIAL PRACTICE. Spring. (4 q. hrs.)

This course aims to promote finished performance in typewriting and shorthand. A study is also made of the duties of the secretary in business and the professions; relations of the private secretary to the employer; and opportunities for men and women in the secretarial field. Speed requirement: minimum of 120 words per minute for five minutes to be transcribed at a rate of not less than twenty-five words per minute with 98 per cent accuracy.

Prerequisite: Business Education 224. Fee \$1.00.

230. ACCOUNTING. Fall. (4 q. hrs.)

This course does not presume any previous training in bookkeeping. The balance sheet and profit and loss statements are studied first,

leading up to the introduction of accounts. The course aims to give a thorough drill in the principles of accounting as applied to single proprietorship.

231. ACCOUNTING, Continued. Winter. (4 q. hrs.)

This course is a continuation of the work given during the first term of accounting with particular emphasis on the interpretation of accounts as applied to partnerships. A partnership set is used, illustrating the use of various books of original entry, controlling accounts, and adjusting and closing books.

Prerequisite: Business Education 230 or the equivalent.

232. ACCOUNTING, Continued. Spring. (4 q. hrs.)

This course consists chiefly of changing partnership books to corporation books, corporation accounting, voucher system, accounting for departments and branches, accounting for non-profit organizations and analysis of financial statements with interpretations.

Prerequisite: Business Education 231.

247. PRINCIPLES OF MARKETING. Fall and spring. (4 q. hrs.)

A survey of the field of marketing with emphasis upon principles, trends, policies in relation to marketing agencies and the fundamental reasons underlying current marketing channels; marketing functions and institutions; problems involved and methods used in marketing agricultural products, raw materials and manufactured goods; functions and modes of operation of wholesale and retail middlemen; basic problems of demand creation; market finance; market risk; price maintenance; unfair methods of competition; recent governmental activities affecting marketing.

248. PRINCIPLES OF SALESMANSHIP. Fall and winter.

(4 q. hrs.)

A general survey of the problems of selling with special emphasis upon how salesmanship enters the life of the student; the psychology of salesmanship as it relates to the planning and execution of a sale; principles of general selling.

249. RETAIL STORE OPERATION. Winter and spring. (4 q. hrs.)

The organization and management of retail stores; location, layout, financing, buying, pricing, credits and collections, stock control, personnel work, business forecasting. Some attention is given to the fundamental principles and problems as they relate to a distributive education program. Actual selling experience is encouraged if no previous experience has been acquired.

Prerequisite: Business Education 247 and 248, or permission of the instructor.

300. MANAGING PERSONAL FINANCES. Fall. (4 q. hrs.)

This course provides a broad coverage of practical financial prob-

lems as it particularly applies to the managing of one's personal finances.

Not open to business education majors.

446. BUSINESS LAW. Fall. (4 q. hrs.)

This course deals with the rules governing law and its administration; property, torts; contracts; agency, employer, and employee; negotiable instruments; and suretyship. The aim of the course is to give the student a thorough and correct understanding of the fundamental principles of business law.

447. BUSINESS LAW, Continued. Winter. (4 q. hrs.)

This course is a continuation of Business Education 446 and considers insurance; bailments; carriers; sales; partnership; corporation; deeds of conveyance; mortgages; landlord and tenant; business crimes.

450B. METHODS OF TEACHING BOOKKEEPING AND BUSINESS ARITHMETIC. Winter and spring. (4 q. hrs.)

In this course a critical study is made of the teaching of elementary bookkeeping by modern methods. In addition to lectures and discussions, there is sufficient laboratory work to insure mastery of the subject in its relation to the problems of the teacher.

May be taken for credit toward the Master's degree.

450L (340I). METHODS AND MATERIALS FOR TEACHING INTRODUCTION TO BASIC BUSINESS. Spring. (4 q. hrs.)

This course provides a study and review of the subject matter of introduction to business, junior business training, elementary business training, practical economics, or general business, as the subject is variously called. It also deals with consumer education for business as presented in secondary schools.

May be taken for credit toward the Master's degree.

450S. METHODS OF TEACHING GREGG SHORTHAND. Winter. (4 q. hrs.)

This course is designed for teachers and prospective teachers who desire to make a practical study of classroom problems involved in the different methods of teaching the manual. Special attention is given to the teaching of advanced dictation and transcription. Demonstrations are given in the different methods of teaching shorthand. Proficiency in Gregg shorthand theory and in taking dictation must be demonstrated before credit in this course is granted.

May be taken for credit toward the Master's degree.

450T. METHODS OF TEACHING TYPEWRITING AND OFFICE PRACTICE. Fall and spring. (4 q. hrs.)

Methods of teaching both beginning and advanced typewriting courses are included. Demonstrations are given in the teaching of

typewriting techniques. Proficiency in the subject matter must be demonstrated before credit in this course is granted.

May be taken for credit toward the Master's degree.

451. PRINCIPLES OF MANAGEMENT. Fall. (4 q. hrs.)

The purpose of this course is to acquaint students with the fundamentals of successful management, including phases of administrative, staff, and operative management in the business situation. Management principles and techniques are given for various fields of business. Factors basic to business: objectives, policies, functions, executive leadership, organization structure and morale, and operational procedure and control. Where possible relationships are created to emphasize management in the school and classroom situation.

May be taken for credit toward the Master's degree.

452. PERSONNEL MANAGEMENT. Winter. (4 q. hrs.)

This course includes the objectives, functions, and organization of a typical personnel program. Problems in personnel administration: job analysis, job evaluation, selection and placement, education and training, safety and health, employee services, employee relations, administration of wages and hours, labor legislation and personnel research are studied. Basic guidance techniques required by business teachers in order to make this insight into personnel administration in industry useful and practical in the classroom situation.

Prerequisite: Business Education 451, or permission of the instructor. May be taken for credit toward the Master's degree.

453. OFFICE MANAGEMENT. Spring. (4 q. hrs.)

Duties and responsibilities of the office manager; principles of practical office management and their application. Includes survey and analysis; development and use of manuals; selection; training, pay and promotion of office employees; controlling office expense and measuring office efficiency; flow of work; purchase and use of office equipment; physical factors, centralization of office services; report writing; quality and quantity standards.

Prerequisite: Business Education 451 and 452, or permission of the instructor. May be taken for credit toward the Master's degree.

458. CASE PROBLEMS IN BUSINESS LAW. Spring. (4 q. hrs.)

This course assumes that the student has a knowledge and background of the theory of business law. The course deals with the solution of case problems as applied to the various topics in the field of business law.

May be taken for credit toward the Master's degree.

460. COST ACCOUNTING. Fall. (4 q. hrs.)

An introductory course involving principles and methods in handling materials, direct labor, and the distribution of overhead expenses as they relate to manufacturing concerns. Job, process, and

standard costing are presented with special emphasis upon job cost-accounting principles and practices.

Prerequisite: Business Education 230, 231, 232. May be taken for credit toward the Master's degree.

461. INCOME TAX ACCOUNTING. Winter. (4 q. hrs.)

The fundamentals of Federal Income Tax Accounting are presented under the latest amendments to the Internal Revenue Code. The various income tax blanks and forms are presented and filled in with special emphasis upon the returns of individuals and partnerships.

Prerequisite: Business Education 230, 231, 232. May be taken for credit toward the Master's degree.

462. SOCIAL SECURITY ACCOUNTING. Spring. (4 q. hrs.)

Social security accounting is presented with its latest developments. Various blanks and forms are presented and worked out by each student. Problems connected with social security are studied from the point of view of both the employer and the employee.

Prerequisite: Business Education 230, 231, 232. May be taken for credit toward the Master's degree.

480. GENERAL INSURANCE. Fall. (4 q. hrs.)

A survey of the risks to which man and property are subject and the elimination of the financial consequences of these risks through insurance coverages. Includes life, property, and casualty insurance.

May be taken for credit toward the Master's degree.

482. CORPORATION FINANCE. Spring. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation; management of income.

Prerequisite: Business Education 230, 231, 232 and Social Science 254, 255, 256 or the equivalent. May be taken for credit toward the Master's degree.

490. PART-TIME SUPERVISED BUSINESS TRAINING. Winter. (4 q. hrs.)

The course gives experience in the application of theory to office, store and factory situations. Approximately two-thirds of the course is devoted to class work and one-third to supervised job training.

May be taken for credit toward the Master's degree.

532. STATEMENT ANALYSIS AND ADVANCED ACCOUNTING PROBLEMS. Omitted 1954-55. (4 q. hrs.)

This course is designed to give a detailed analysis and interpretation of financial statements with advanced problems supporting the theory presented. Particular types of statements as they apply to public utilities, industrials, and moneyed corporations are introduced.

Prerequisite: Business Education 230, 231, 232. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

590. SEMINAR IN BUSINESS EDUCATION. Every quarter.

(4 q. hrs.)

Special study and investigation on problems in the field of business education based on the graduate's abilities and needs.

Prerequisite: Consent of the head of the department. Open only to graduates.

CHEMISTRY

The elementary chemistry courses (130, 131, 132) are fundamentally cultural courses and also basic to further work in the physical sciences, medicine, dentistry, nursing, engineering, etc. They help the student to understand something of the nature of our physical world and how it influences our daily lives. These courses satisfy the core curriculum requirement for a year of laboratory science.

Note: A four-year sequence is offered: 1. Elementary chemistry (130, 131, 132). 2. Analytical (233, 234, 235). 3. Organic chemistry (343, 344, 345). 4. Physical chemistry (491, 492, 493).

A minor in chemistry is secured by passing Chemistry 130, 131, 132 and preferably the analytical or organic chemistry sequence. Other combinations suitable for a minor are 210, 211, 212; 261, 234, 235; 234, 343, 344. Other combinations may be arranged by consultation with the chemistry department head.

Chemistry majors are required to elect Chemistry 450 (one quarter) unless Chemistry 491, 492 and 493 are elected.

A breakage fee of \$3.00 is charged for laboratory courses in chemistry. The unused portion is returnable at the end of the course.

All courses except Chemistry 300 and 340 have two classes and two two-hour laboratories per week. Chemistry 300 has three classes and individual laboratory work. Chemistry 340 meets four times weekly.

130, 131, 132. ELEMENTARY CHEMISTRY. Chemistry 130, fall and winter; Chemistry 131, winter and spring; Chemistry 132, spring. (4 q. hrs. for each course.)

A general cultural course providing an introduction to the basic fundamentals and principles of chemistry; the common metals and non-metals, the simpler organic compounds, and an introduction to qualitative analysis of the common elements.

Required in the chemistry, physics, botany, and zoology curricula and accepted as a year of laboratory science in other curricula.

210, 211. ORGANIC CHEMISTRY FOR MAJORS IN HOME ECONOMICS, PRE-NURSING, AND RELATED FIELDS. Fall and winter. (4 q. hrs. for each course.)

An introductory course emphasizing the basic principles of organic reactions. The chemistry of the simpler aliphatic and aromatic compounds; carbohydrates; lipoids; proteins; dyes and drugs.

Required in the home economics curriculum. Elective in other curricula, but not open to chemistry majors. Prerequisite: Chemistry 130, 131.

212. BIOCHEMISTRY. Spring. (4 q. hrs.)

A brief survey of the chemistry of biological and food materials, of nutrition and of physiological processes.

Recommended as an elective for students in home economics, pre-nursing, pre-agricultural, pre-medical, pre-dental, botany, zoology, and chemistry curricula. Elective in other curricula. Prerequisite: Chemistry 210, 211; or Chemistry 343, 344.

233. QUALITATIVE ANALYSIS. Fall. (4 q. hrs.)

The systematic analysis of metallic and non-metallic ions by semi-micro methods, and the study of the principles involved in their separation and identification. Emphasis is placed on an understanding of the chemistry involved rather than on the techniques of analysis.

Required in the chemistry curriculum. Prerequisite: Chemistry 132, Physics 130 and Mathematics 130 are recommended.

234. QUANTITATIVE ANALYSIS. Fall and winter. (4 q. hrs.)

Experiments are selected to illustrate the general principles of volumetric and gravimetric analysis, and the calibrations of analytical apparatus. Class work includes the critical evaluation of analytical data, theory of neutralization reactions and extensive treatment of problems which illustrate gravimetric analysis and acid-base volumetric analysis.

Required in the chemistry, pre-medical, and pre-pharmacy curricula. Prerequisite: Chemistry 132. Mathematics 130, 131 and Physics 130 are strongly recommended.

235. QUANTITATIVE ANALYSIS. Spring. (4 q. hrs.)

A continuation of Chemistry 234. Oxidation-reduction reactions, electrometric methods, more gravimetric determinations and a brief introduction to instrumental analysis.

Required in the chemistry curriculum. Prerequisite: Chemistry 234.

261. INTERMEDIATE CHEMISTRY. Fall (4 q. hrs.)

Topics for study include those generally omitted and those to which insufficient attention is given in the general chemistry course. These include radioactivity and isotopes, electro-chemistry, chemical bonding, complex ions, silicon and fluorine chemistry, etc., which serve to round out one's general chemistry background. Extensive use is made of library materials.

Prerequisite: Chemistry 132. Strongly recommended for chemistry majors.

300. PHOTOGRAPHY. Winter. (4 q. hrs.)

The general theory and use of the camera, types of emulsion, latent image, development, fixation, printing, enlarging, toning, filters, color photography, composition. Experiments are assigned in accordance with experience and ability.

Prerequisite: One year of college laboratory science and a camera. The cost of sensitive materials used must be paid by the student. This course does not count toward a major or minor in chemistry.

340. METHODS OF TEACHING CHEMISTRY. Winter. (4 q. hrs.)

Required in the chemistry curriculum.

343, 344, 345. ORGANIC CHEMISTRY. Chemistry 343, fall and winter; Chemistry 344, winter and spring; Chemistry 345, spring. (4 q. hrs. for each course.)

Chemistry 343 and 344 are studies of the aliphatic and aromatic series with an introduction to the theories of organic chemistry. Chemistry 345 is a continuation but with major emphasis placed upon identification of organic compounds.

Required in the chemistry curriculum. Prerequisite: Chemistry 130, 131; Chemistry 132 or simultaneous registration therein.

346. PHYSICAL CHEMISTRY FOR PRE-MEDICAL STUDENTS.

Omitted 1954-55. (4 q. hrs.)

A study of gas laws, liquids, solutions, chemical equilibrium, oxidation and reduction, colloidal substances, etc., as applied to the medical sciences. Mathematical requirements are kept at a minimum.

This course is designed primarily for students in pre-medicine and pre-dentistry. Prerequisite: Chemistry 234, 343.

450, 451. ADVANCED CHEMISTRY. Spring.

(4 q. hrs. for each course.)

Laboratory technique, maintenance and repair of apparatus and use of chemical literature are developed by means of a simple research problem. The student is expected to help in choosing a problem in the chemistry field which will be most valuable to him in rounding out his work after consultation with the head of the department.

Chemistry 450 is required of all chemistry majors unless Chemistry 491, 492, 493 are elected. Prerequisite: Senior standing in chemistry and consent of the head of the department. May be taken for credit toward the Master's degree.

480. ORGANIC PREPARATIONS. Omitted 1954-55. (4 q. hrs.)

May be taken for credit toward the Master's degree.

490. CHEMISTRY OF COLLOIDAL SUBSTANCES. Spring.

(4 q. hrs.)

A study of the preparation, properties and uses of the major classes of colloidal materials and their applications to the biological

sciences, to medicine, and to industry.

Prerequisite: Chemistry 234, 343 or equivalent. May be taken for credit toward the Master's degree.

491, 492, 493. PHYSICAL CHEMISTRY. Omitted 1954-55.

(4 q. hrs. for each course)

A study of the principles governing chemical change. Included are: gas laws and the kinetic theory, crystals, liquids and solutions, thermochemistry and thermodynamics, chemical equilibria, colloidal phenomena, the phase rule, electro-chemistry, atomic and nuclear structure, etc.

Prerequisite: Chemistry 235, 343 or simultaneous registration therein; Mathematics 235, 236. May be taken for credit toward the Master's degree.

ECONOMICS

(See Social Science 254, 255, 256, 457, 458, 459)

EDUCATION AND PSYCHOLOGY

(1) Education

120. LABORATORY IN EDUCATION. Every quarter. (4 q. hrs.)

A laboratory course with emphasis on directed observations and individualized experiences with children of pre-school and elementary school ages, under a variety of environmental conditions.

Required of and restricted to freshmen in the elementary curriculum.

220. WORKSHOP. Summer. (4 q. hrs.)

Opportunity to work on individual problems with guidance of staff members.

Registration by permission only.

226. RURAL CURRICULUM PROBLEMS. Summer. (4 q. hrs.)

230. AN INTRODUCTION TO EDUCATION. Every quarter.

(4 q. hrs.)

A comprehensive survey of the field of education designed to give an understanding of the development of the American school system, to aid in the analysis of current trends in American education, and to create an appreciation for teaching as a profession.

Required in all curricula.

232. HUMAN GROWTH, DEVELOPMENT, AND LEARNING.

Every quarter. (4 q. hrs.)

This course deals with how people learn. It is based on available research on human growth and development. Major emphasis is

placed on developmental and learning problems of childhood and adolescence and their implication and significance in relation to classroom procedures.

Prerequisite: Psychology 231.

313. RURAL SCHOOL OBSERVATION. Summer. (4 q. hrs.)

Observation of a modern one-room school. Enrollment is restricted to juniors, seniors, or teachers actually in service.

Elective in the elementary curriculum.

325. CHILD AND CURRICULUM. Winter and summer. (4 q. hrs.)

The course is designed to develop a readiness for teaching, and to build an understanding of a curriculum as it might be experienced by a child in the elementary school. Opportunities are provided for observation at all levels in the Training School.

Required in the elementary curriculum. Prerequisite: Twelve quarter hours in education and psychology.

326. CHILD GROWTH AND DEVELOPMENT AND IMPLICATIONS FOR TEACHING. Summer. (4 q. hrs.)

A survey of recent developments in the field. Development tasks, case studies, techniques of group management. A basic text is used, supplemented by source materials.

Prerequisite: Consent of instructor.

328. READING. Fall and spring. (4 q. hrs.)

An introduction to a study of principles and methodology of teaching reading in the elementary grades. Major emphasis is placed on silent and oral work-type reading. Objectives, instructional materials, and teaching problems to be developed in each stage of reading experience form the basis for classroom discussion. Skills, attitudes, and abilities of each stage are considered. Demonstrations in the laboratory school are arranged for class observation and discussion. The place of phonics, construction and use of tests, making and use of good seat work, and use of drills are topics carefully considered.

Required in the elementary curriculum. Prerequisite: Psychology 231 and Education 232.

343. PRINCIPLES OF EDUCATION. Every quarter. (4 q. hrs.)

Philosophy as applied to such educational problems as determining the nature of the educative process, the ends and objectives of education, and the means of attaining educational ends in a democratic society. These are treated to illustrate methods of approach and points of view which may be useful in dealing with other general educational questions.

Required in all curricula. Prerequisite: Education 230, 232, and Psychology 231.

344. TESTS AND MEASUREMENTS. Every quarter. (4 q. hrs.)

About one-third of the time is devoted to educational statistics. The remainder of the time is devoted to a brief study of the testing movement, advantages and limitations of various types of tests, criteria for the selection of tests, examinations of numerous standardized tests, and the construction of tests in the student's major field.

Required in all curricula except home economics and music. Prerequisite: Education 230, 232, and Psychology 231.

345. DIRECTING LEARNING. Every quarter. (4 q. hrs.)

Through readings, observations, films, and discussions this course applies to the daily work of the teacher. The characteristics of a desirable learning situation and the facts and principles of growth, development, and learning. The course focuses on how the teacher can deal effectively with the innumerable learning situations and other duties and responsibilities connected with his position in an ongoing educational program.

Required in all curricula except the industrial arts curriculum. Prerequisite: Education 120, 230, 232, and Psychology 231.

443L. PROFESSIONAL LABORATORY EXPERIENCES. Summer. (4 q. hrs.)

Laboratory experiences adapted to the needs of mature teachers. Opportunity is provided for study of teaching through observations, discussions, readings, and occasional participation in teaching. Experienced and certificated teachers may, with the approval of their advisers and the Dean of the College, substitute this course for Teaching 443.

Prerequisite: Teaching 441 and 442. and permission of adviser and Dean of the College.

446. MODERN TRENDS IN EDUCATION. Spring. (4 q. hrs.)

The topics discussed vary from year to year. Each student is expected to choose for detailed study one problem in which he is especially interested.

Prerequisite: Sixteen quarter hours in education and psychology.

452. SCHOOL LAW. Summer. (4 q. hrs.)

A course designed to develop an understanding of the basic legal factors related to the school. Professional and extra-legal controls are also considered.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

458. VOCATIONAL EDUCATION. Every quarter. (4 q. hrs.)

A course in the history, organization and administration of vocational education. Federal and state laws affecting vocational schools are considered.

Required in the home economics curriculum, and in the industrial

arts curriculum unless Education 345 is substituted. May be taken for credit toward the Master's degree.

460. PROBLEMS IN SECONDARY EDUCATION. Summer.

(4 q. hrs.)

An exploratory course which begins with the origins of the secondary school in America, and traces the most important influences in its growth and development to the present time. Such important problem areas are brought under study as the characteristics of the school's age-group, intra-school and inter-school relations, parallel education agencies, the Illinois Secondary School Curriculum Program, and the issues and functions of secondary education.

Prerequisite: Sixteen quarters hours in education and psychology. May be taken for credit toward the Master's degree.

465. SPECIAL EDUCATIONAL PROBLEMS. Summer. (4 q. hrs.)

The course affords the student an opportunity for investigation and analysis of the elementary and secondary school materials in which he is most interested.

Prerequisite: Junior standing or experience in teaching and permission of the instructor.

466. EXTRA-CURRICULAR ACTIVITIES. Summer. (4 q. hrs.)

The aim of this course is two-fold: (1) To set up guiding principles for pupil participation in the life of the school. In doing this, emphasis is placed upon such activities as home-room and class organizations, student councils, assemblies, publications, forensics, clubs, and societies, commencements, athletics, social activities, and other activities for elementary and secondary schools; (2) To acquaint teachers with out-of-school agencies which can facilitate the work of teachers and which teachers may be called upon to encourage, such as the P.T.A., Junior Red Cross, state agencies such as the Conservation Department, Biological Survey, State Department of Public Health, Boy and Girl Scouts, and others.

When class interest makes it desirable, the Scouters Basic Training Course is made an optional part of the course. Instruction is provided by qualified Scouters and a certificate is awarded by the Scout organization for the satisfactory completion of the course.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

468 (457). EDUCATIONAL SOCIOLOGY. Summer. (4 q. hrs.)

Applications from the general field of sociology to the problems of the school. Personality and culture, the school in its community, marriage and family living, juvenile delinquency, intergroup relations, group dynamics, sociometry, role-playing, and communication are studied in their relationships to student learning.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

469. TEACHING OF READING. Fall and summer. (4 q. hrs.)

A course designed to give the student knowledge of the importance of good reading instruction, to give experiences in the techniques of such instruction, to provide opportunity for a study of the types of reading and study difficulties, and to explore methods of diagnosis and remedial work useful to classroom teachers and supervisors.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

470. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL.

Summer. (4 q. hrs.)

A critical review of objectives proposed for language arts instruction (exclusive of reading) at the elementary school level, with emphasis on their implications concerning organization of the program, content, materials, and procedures.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

471. TEACHING OF SOCIAL LIVING IN THE ELEMENTARY SCHOOL. Summer. (4 q. hrs.)

A course in methods and materials related to teaching social living. It is designed to aid teachers, supervisors, and administrators to promote better understanding of the role of history, civics, geography, and the natural sciences, not as separate areas with opposed objectives but as interacting factors in solving any social problem.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

480. SCHOOL ORGANIZATION AND ADMINISTRATION.

Summer. (4 q. hrs.)

This is an introductory course for students who desire a knowledge of problems in educational organization, administration, and supervision in the nation, the state, and local units. School law and finance as well as current educational problems receive attention.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

481. WORK OF THE PRINCIPAL IN THE MODERN SCHOOL.

Summer. (4 q. hrs.)

A basic professional course for the principalship in either the elementary or secondary school. The discussion, materials, and assigned problems are adapted to the interests and needs of the individual student.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

487 (456). INTRODUCTION TO AUDIO-VISUAL EDUCATION.

Spring and summer. (4 q. hrs.)

Practical theory and principles for use of multi-sensory materials and equipment in teaching. Typical considerations are: guidance in use of materials and equipment; evaluation of program; selection, purchase or production of materials; types of materials most in demand for each level and area of the curriculum.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

490 (454). PRINCIPLES AND TECHNIQUES OF GUIDANCE.

Winter. (4 q. hrs.)

This course deals with the principles and purposes underlying guidance activities, the organization for carrying on such activities, and a study of means by which counseling activities may be carried on in small communities as well as in larger systems. The guidance point of view and the role of the classroom teacher in a guidance program are emphasized.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

544. EDUCATIONAL STATISTICS. Summer. (4 q. hrs.)

A course planned to develop a basic understanding of the fundamentals of statistics and to show their application in the field of education.

Prerequisite: Sixteen quarter hours in education and psychology. Open with special permission to seniors.

550. PRINCIPLES OF CURRICULUM DEVELOPMENT. Fall and summer. (4 q. hrs.)

The course is designed to give practical help to teachers and prospective administrators and supervisors in the improvement of instruction through curriculum development. The course deals with an evaluation of the current curriculum and the need for the introduction of new materials, learning experiences and activities. Attention is directed (1) to developing principles governing the selection of materials and experiences and (2) to ways of organizing these into effective teaching-learning units. The first portion of the course deals with philosophical concepts of curriculum work and the latter, or major portion, with actual problems of course of study and unit construction at either the elementary or secondary school level. Current trends in Illinois Curriculum Development Projects are also considered.

Open only to graduates. Required of all candidates for the Master's degree.

551. SOCIAL FOUNDATIONS OF EDUCATION. Winter and summer. (4 q. hrs.)

This course is intended to guide the student, on the level of individual readiness and capacity, in an analysis of the origin, growth, and present form of some of the social problems with which American

public education is confronted today. Among the areas to be studied are the nature of culture, socialization of the individual, the major sources of American culture, American family life, the community and the school, the effects upon the school of mobility and impersonality in an industrial age, equality of educational opportunity, the impact of pressure groups on the school, national resources, and current conflicting ideologies.

Open only to graduates. Required of all candidates for the Master's degree.

552. UNDERSTANDING THE INDIVIDUAL. Spring and summer.
(4 q. hrs.)

The purpose of the course is to help the individual to understand himself and, upon the basis of this insight, to understand others. The course deals with concepts of the self; the individual under threat; the creative individual; and the integration of personality. It involves the study of basic needs and drives and their modifications during childhood, adolescence, and adulthood.

Open only to graduates. Required of all candidates for the Master's degree.

553. PHILOSOPHY OF EDUCATION. Summer. (4 q. hrs.)

This course is designed to give students some guiding principles with which to scrutinize and evaluate present day educational methods, principles, and aims. It is not confined to an individual point of view but through the eclectic method offers several philosophical approaches to some of the major problems of ethics, teaching, and the national policy in education.

Open only to graduates.

554. HISTORY OF EDUCATIONAL THOUGHT. Summer. (4 q. hrs.)

A course designed to relate past educational ideas and events to the social and political framework of their days, and to show their influence on the contemporary scene. It attempts to enrich the student's knowledge of educational practices and policies and to emphasize the need for continuity of thought in the progress of civilization. The course provides an historical perspective for evaluating present controversies and trends and increases knowledge of some of the intellectual content of the mother subject of history.

Open only to graduates.

575. DEVELOPMENT OF CORE CURRICULUM. Summer.
(4 q. hrs.)

This course concerns itself with current practice, trends, and research in the organization of classroom learning experiences on both elementary and secondary school levels. History, development, and psychological basis for unit activity procedures at the elementary level, and for core curricula, unified studies, and common learning programs at the secondary level are studied. The course includes re-

views of pertinent research in child growth and development and learning, dynamics of group structure, and influence of the group upon the individual. Each student is assisted in developing materials applicable to his own school.

Prerequisite: Education 552. Open only to graduates.

580. PROBLEMS IN SCHOOL ADMINISTRATION. Summer.
(4 q. hrs.)

This course deals with specific problems of school administration selected on the basis of the needs and interests of members of the class. The work of the course is carried on through group and individual study.

Prerequisite: Education 480 or equivalent. Open only to graduates.

581. SCHOOL SUPERVISION—A GROUP PROCESS. Winter and summer. (4 q. hrs.)

This course, utilizing what is known about group dynamics and employer and employee relationships, is planned to help teachers and supervisors improve the school program through group processes. Emphasis is placed on practical application of principles of leadership and supervision to the end that staff members, patrons, and pupils may be able cooperatively to make their best contributions to the work of the schools. The origin, development, and current trends in school supervision, as well as the recognized responsibilities of supervisors and teachers to the supervisory program, are studied intensively.

Open only to graduates.

587. THE FILM AS A MEDIUM OF COMMUNICATION. Summer.
(4 q. hrs.)

This course is designed to achieve a more thorough understanding of an important educational tool—the 16 mm. motion picture. Emphasis is placed on the film with respect to its teaching values. Various kinds of films are analyzed for content, accuracy, place in curricula, and utilization. Accepted techniques for effective use of films as educational instruments on all levels from kindergarten through universities are discussed and demonstrated. Sources of films, methods of obtaining films, trends in educational film making, and evaluation of motion picture materials are considered.

Open only to graduates.

590. CURRENT PRACTICES AND PROBLEMS IN COUNSELING.
Fall and summer. (4 q. hrs.)

An advanced course in theory and principles of counseling, need of counseling services, place of the counselor in the school program, in-service training of counselors, gathering and recording information, tests and the counseling situation, and educational and vocational planning. This course is designed to give the student with a minimum training in the principles and techniques of guidance an opportunity

to gain additional skills and competencies.

Prerequisite: Education 490. Open only to graduates.

592. OCCUPATIONAL INFORMATION. Spring and summer.

(4 q. hrs.)

A course concerned with collecting, evaluating, and using educational, occupational, and related information. This course seeks to develop familiarity with the more important types and sources of occupational and educational information and some skill in their use. Employment conditions and opportunities, job requirements, training facilities, and the changing economic trends are covered.

Open only to graduates.

(2) Psychology

Requirements for a Minor in Psychology: Psychology 231, 351, 447, 451, 452, 455.

A minor in psychology may be offered for graduation only by students who in addition have satisfied all requirements for a teacher's certificate.

231. INTRODUCTION TO PSYCHOLOGY. Every quarter. (4 q. hrs.)

A beginning course. Major topics treated are schools of psychology, the physical basis of behavior, native and acquired responses, mental hygiene, and individual differences.

Required in all curricula.

351. APPLIED PSYCHOLOGY. Summer. (4 q. hrs.)

This course deals with the principles of mental behavior as they are related to the various fields of experience. Special reference is directed to the psychological factors involved in business, industry, law, medicine, the arts, human relations, and other areas of human endeavor.

Prerequisite: Education 232 and Psychology 231.

447. SOCIAL PSYCHOLOGY. Fall. (4 q. hrs.)

This course deals with the various phases of social behavior. Specifically, some of the problems dealt with are instinctive adaptation to social situations, group and individual reactions to social phenomena, customs, fashions, fads, conventions, national and racial attitudes, occupations, institutions, and the social self in the present-day world.

Required in the elementary curriculum. Prerequisite: Sixteen quarter hours in education and psychology.

451. ABNORMAL PSYCHOLOGY. Fall. (4 q. hrs.)

The purpose of this course is to acquaint the student with various forms and types of abnormal behavior. Stress is given to these pat-

terns as they affect the relations between the teacher and the pupil. Attention is also given to a study of the adolescent. The philosophy of mental hygiene is integrated throughout the course, stressing the application of these hygienic principles in developing proper behavior patterns in the school and the community.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

452. PSYCHOLOGICAL MEASUREMENTS: PERFORMANCE AND INTELLIGENCE TESTING. Spring and summer. (4 q. hrs.)

A course dealing with advanced study of the use, interpretation, description, and administration of psychological tests used in measuring interests, aptitudes, and personality characteristics. Provision is made for case studies and laboratory experiences.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 344. May be taken for credit toward the Master's degree.

455. MENTAL HYGIENE. Winter and summer. (4 q. hrs.)

A course stressing the normal individual's problem of maintaining his own mental health, with secondary consideration of the significance to the community of mental illness in the cost of maintaining institutions, in crime, delinquency, suicide, alcoholism, and the like. Physical, mental, emotional, and social factors underlying mental health; right and wrong use of mental mechanisms; rise and development of the mental hygiene movement and the application of its principles to home, school, and social situations.

Prerequisite: Sixteen quarter hours in education and psychology. May be taken for credit toward the Master's degree.

(3) Teaching

Admission to Student Teaching. 1. The student must have an average of 1.0 in all courses, must have completed 16 quarter hours in courses in education, must have passed Library 120, must have completed all required physical education courses to date, and, if Business Education 120 is required in the student's curriculum, must have completed that course. Transfer students must have been in residence at Eastern for at least one quarter before they may be admitted to student teaching.

2. All assignments for supervised student teaching are made by the Director of Teacher Training. Students should arrange for their teaching assignments before registering for other subjects.

3. Students registered for teaching must leave the 4:00-5:00 period on Thursdays open for group conferences.

220, 221. SUPERVISED STUDENT TEACHING IN THE ELEMENTARY SCHOOL. Every quarter. (4 q. hrs. for each course.)

For students with sophomore standing.

441, 442, 443. SUPERVISED STUDENT TEACHING IN THE ELEMENTARY OR SECONDARY SCHOOL. Every quarter.

(4 q. hrs. for each course)

Three quarters of teaching are required for the degree. Students in secondary curricula must take at least 4 quarter hours, preferably 8 quarter hours, of student teaching in their major field.

Required in all curricula.

ENGLISH

Notes. Any student entering the College with a deficiency in the basic skills in English—reading, writing, spelling, elements of grammar and good usage—may be required to take work in remedial English in addition to the required freshman composition courses.

Junior English Examination. In the Winter Quarter of each school year all juniors are required to take the Junior English Examination—a test set by the faculty to see that students soon to engage in student teaching have attained a satisfactory standard of written English. Students whose English is shown by the test to be deficient must remove their deficiency by taking such instruction as the Department of English shall designate.

The examination for the year 1954-55 will be held on Wednesday, January 26, 1955, from 7:00 to 10:00 p.m.

120. COMPOSITION. Fall and winter. (4 q. hrs.)

A basic course in communication, including listening, reading, speaking, and writing. Many short themes required to develop facility in writing correct, effective sentences and paragraphs. Some study of rhetorical and grammatical principles and their application to expression.

121. COMPOSITION. Winter and spring. (4 q. hrs.)

Further study of rhetoric and grammar. Longer units of composition in which problems of organization, coherence, and unity are studied. One research paper required in addition to about ten themes of three or four pages each.

English 120 and 121 are required in all curricula. Prerequisite: English 120.

122. LITERATURE IN THE GRADES. Spring. (4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suit-

able for children.

Required in the elementary curriculum for lower grades. Not accepted for elective credit in other curricula.

123. STORY-TELLING. Summer (4 q. hrs.)

Theory and practice in telling stories to children of different ages. *Elective. The course may be substituted for English 122.*

125. COMPOSITION AND LITERATURE. Fall and spring.

(4 q. hrs.)

Third quarter of freshman English except for those students required to take other courses. A continuation of composition work begun in English 120 and 121 to fix expression skills. A brief introduction to literary types.

Required in all curricula except the English and elementary education curricula. Prerequisite: English 120 and 121.

126. GRAMMAR. Spring. (4 q. hrs.)

A study of the English sentence, with some attention to the parts of speech. Methods are illustrated and stressed. This is primarily a course for those preparing to teach in the upper grades or in junior or senior high school English, but is open to any student who feels the need of grammatical insight.

Required in the elementary curriculum for the upper grades. Required in the English curriculum. Elective in other curricula.

210J. HISTORY OF JOURNALISM. Spring. (4 q. hrs.)

Study of the development of the newspaper, particularly in America, based mainly on Mott's *American Journalism*, with attention to the mechanics, the craft, and the ethics of journalism.

Sophomore standing advisable.

211J, 212J. REPORTING. Fall, winter. (4 q. hrs for each course.)

Principles of gathering and writing news, with practice in the classroom and, as soon as practicable, on the *Eastern State News*.

Sophomore standing advisable.

230. NINETEENTH CENTURY PROSE FICTION. Fall and winter.

(4 q. hrs.)

English 230 treats of fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, and Hawthorne. Standards of good fiction, past and present, are discussed.

Required in the English curriculum.

231. NINETEENTH CENTURY PROSE FICTION, Continued.

Winter and spring. (4 q. hrs.)

English 231, a continuation of English 230, is concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, and James.

Prerequisite: English 230.

234. AMERICAN LITERATURE. Fall and spring. (4 q. hours.)

A survey of American literature from Colonial times to the end of the nineteenth century, stressing trends and major writers, with as much reading of original materials as the time will allow.

Required in the English and elementary education curricula.

235. GREEK DRAMA. Fall. (4 q. hrs.)

Origin and development of classical drama: Aeschylus, Sophocles, Euripides, with a study of Greek life and thought, and their contribution to our culture.

Prerequisite: English 120, 121, 125.

236. SHAKESPEARE AND THE ELIZABETHAN DRAMA.

Winter. (4 q. hrs.)

A study of Shakespeare's most important plays, and of their place in the development of English drama.

Required in the English curriculum.

237. MODERN DRAMA. Spring. (4 q. hrs.)

The purpose of this course is to familiarize the student with what is best in modern drama.

240. LITERATURE OF THE OLD TESTAMENT. Fall. (4 q. hrs.)

An objective study of the various types of literature of the Old Testament—simple narratives, biography, history, law, short story, drama, prophecy, poetry, and wisdom literature. Some attention is paid to historical backgrounds.

Elective.

310J. 311J. ADVANCED REPORTING AND NEWS EDITING.

Fall and winter. (4 q. hrs. for each course.)

To receive credit in this course, the student must have a position on the *Eastern State News*. Two staff meetings are held weekly in lieu of classroom attendance. There is practice in securing news, and in the editing of news stories.

Prerequisite: English 210J, 211J, 212J.

312J. FEATURE WRITING AND MAGAZINE ARTICLES.**Spring. (4 q. hrs.)**

Practice in writing newspaper features and magazine articles. Study of marketing possibilities. Sale of material written in class when possible.

340. METHODS OF TEACHING ENGLISH IN THE HIGH SCHOOL. Spring. (4 q. hrs.)

Important topics connected with English in the high school are covered as fully as time permits.

Required in the English curriculum.

343. CONTEMPORARY LITERATURE. Fall. (4 q. hrs.)

Extensive reading in current literature introduces the student to the best that is being written today, and provides him with some standards of judgment with the hope of stimulating his enthusiasm for good books.

Required in the English curriculum.

344. ADVANCED RHETORIC. Winter. (4 q. hrs.)

Chiefly written composition, applying the principles of organization and effective expression to somewhat more extended material than do English 120 and 121. The course is intended to give both an introduction to the methods of research and opportunity for original work.

Required in the English curriculum. Prerequisite: Twelve quarter hours of English.

346. ENGLISH POETRY, BEOWULF TO MILTON. Fall. (4 q. hrs.)

English poetry from its Anglo-Saxon beginnings through the Middle Ages and the Renaissance.

347. ENGLISH POETRY, MILTON TO WORDSWORTH. Winter.**(4 q. hrs.)**

Milton and his contemporaries. Restoration and Eighteenth Century Classicists (Dryden, Pope, Johnson). Precursors of Romanticism with stress on Blake and Burns.

348. ENGLISH POETRY, THE NINETEENTH CENTURY. Spring.**(4 q. hrs.)**

Early Romanticists: Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries. Victorians: Tennyson, the Brownings, Arnold, Clough, and Fitzgerald. Post-Victorians: the Rossettis, Morris, Swinburne, Hopkins, and Bridges.

English 346, 347, 348 required in English curriculum.

350. CREATIVE WRITING, Spring. (4 q. hrs.)

Practice in finding, organizing, and presenting materials for poetry, the familiar essay, the biographical sketch, and the short story. Emphasis is placed on materials drawn from the writer's experience and environment. Papers are read and subjected to discussion and criticism.

Elective.

450. HISTORY OF THE ENGLISH LANGUAGE. Winter. (4 q. hrs.)

The development of the English language from Anglo-Saxon to the language of today.

Required in the English curriculum. Prerequisite: English 126 or its equivalent. Not open as elective in other curricula except by special permission of the head of the English department. May be taken for credit toward the Master's degree.

451. HISTORY OF ENGLISH LITERATURE. Spring. (4 q. hrs.)

The development of English literature from Anglo-Saxon times to the present, with a glance at the American branch, drawing together all previous literature courses.

Required in the English curriculum.

452 (449). THE ESSAY. Fall. (4 q. hrs.)

The course traces the development of the essay in English, with special attention to style. Eighteenth and nineteenth century essays are stressed most.

Required in the English curriculum. May be taken for credit toward the Master's degree.

453. SIXTEENTH AND SEVENTEENTH CENTURY PROSE.

Summer. (4 q. hrs.)

A study that emphasizes the development of prose from the earliest experiments to later times, including such authors as Lyly, Sidney, Bacon, Bunyan, and Milton together with the times that influenced and made it.

Open to juniors, seniors, and graduate students.

454 (349). MAJOR AMERICAN WRITERS AND MOVEMENTS.

Winter. (4 q. hrs.)

An intensive study of a single movement and the chief authors involved—such as Emerson and New England Transcendentalism, Mark Twain and Westward Expansion. Only one movement is treated in any given term, but the movement and authors may change from term to term.

Elective. May be taken for credit toward the Master's degree.

455. EIGHTEENTH CENTURY PROSE WRITERS. Summer.
(4 q. hrs.)

A study concerned with the prose writers of Queen Anne and the Hanoverians. Emphasis upon periodical literature and its influences on the education of the lower classes.

Open to juniors, seniors, and graduate students.

456. EIGHTEENTH CENTURY PROSE WRITERS. Second Half.
Summer. (4 q. hrs.)

A study concerned with prose writers Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

Open to juniors, seniors, and graduate students.

457. ELIZABETHAN DRAMA. Summer. (4 q. hrs.)

A survey of the development of the English drama of the Renaissance, based on the works of the major playwrights of the period, including selected plays of Shakespeare.

May be taken for credit toward the Master's degree.

458. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY. Winter. (4 q. hrs.)

A critical survey of the dramatic development beginning with the plays of the latter seventeenth century and culminating in the comedies of Sheridan and Goldsmith.

May be taken for credit toward the Master's degree.

460J. SUPERVISION OF HIGH SCHOOL PUBLICATIONS.
Summer. (4 q. hrs.)

A course designed especially for advisers to high school publications and senior students expecting to sponsor high school publications. Topics of discussion and study include recruiting a staff, relationship of adviser to staff, gathering and writing news, editorial subjects, relations with the printer, rules of copyreading and proofreading, dangers of libel, yearbook planning and layout, and photography for the yearbook and newspaper. Needs of the class are considered in planning the work of a given term. Each student is expected to make a thorough study of one topic. Observation and practice on the staff of the *Eastern State News* supplements classroom discussion.

No credit toward a minor in journalism. May be taken for credit toward the Master's degree.

500. LITERARY CRITICISM. Summer. (4 q. hrs.)

An extensive study of the basic principles of evaluating the standard literary forms—epic, dramatic, lyrical, and prose narrative.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

501. CHAUCER AND HIS AGE. Summer. (4 q. hrs.)

A study of Chaucer, such as *Book of the Duchess*, *Troilus and Cressida*, and *The Canterbury Tales*; of the London dialect out of which modern English grew; of Chaucer's contemporaries; and the life of the times.

Primarily for graduates. Open to seniors only with permission of the instructor and the Dean.

512. TENNYSON AND BROWNING. Fall. (4 q. hrs.)

Alfred Tennyson and Robert Browning are studied against the background of their lives and of the Victorian Age. As the two greatest and most representative poets of the period, they offer an interesting contrast to each other.

Included in the course are such representative poems of Tennyson's "In Memoriam" and "The Idylls of the King," and Browning's "Pippa Passes," "Saul," "The Ring and the Book," and many short dramatic monologs.

Primarily for graduates. Open to seniors with permission of the instructor and Dean.

550. COMPARATIVE LITERATURE. Spring and summer. (4 q. hrs.)

Literature, chiefly of the Western World 1650 to 1900. It has a double aim: first, it proposes to offer for the enjoyment and appreciation of the student some of the best literature of the period; second, it will, through these pieces of literature, call to the student's attention the ideas and movements of the time. It is the aim to give the student in his study the beginnings of the scientific attitude of our day and a clearer understanding of the origins of democracy and the foundations of the humanitarian legislation of the nineteenth and twentieth centuries. Such French authors as Descartes, Moliere, Voltaire, and Rousseau are studied. Among the writers read in the English language are Locke, Pope, Swift, Wordsworth, and Scott, and such Americans as Franklin, Emerson, Hawthorne, and Walt Whitman. Such writers as Lessing, Schiller, Goethe, and Nietzsche represent Germany.

Open only to graduates. May be offered toward the Group III requirements for the Master's degree.

551. BIOGRAPHY. Summer. (4 q. hrs.)

A survey of biography designed to whet the reader's interest in the major periods of culture, English and American.

Open only to graduate students.

FOREIGN LANGUAGES

Students who wish a major in Foreign Languages should take three years of French, Latin, or Spanish and two years of German or another of the languages offered, together with subjects of the core curriculum and certain courses in social science related to the particular languages studied. Students desiring a major in Foreign Languages should consult the head of the department.

(1) Latin

120, 121, 122. BEGINNING LATIN. Omitted 1954-55. (4 q. hrs. for each course.)

This sequence is offered for students who desire to begin the study of Latin in college. The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

No credit for graduation for less than a year's work.

220. INTRODUCTORY LATIN READING. Fall. (4 q. hrs.)

Review of Latin grammar; exercises; practice in sight translation.

Required in the Latin curriculum. Prerequisite: Latin 120, 121, 122, or two years of Latin in high school.

221. VERGIL'S AENEID. Winter. (4 q. hrs.)

Selections from Books I to VI. Greek and Roman mythology; scansion; sight translation; life of Vergil.

Required in the Latin curriculum.

222. ORATIONS OF CICERO. Spring. (4 q. hrs.)

Readings from the four orations against Catiline. Cicero's career and the political background of the conspiracy of Catiline are discussed.

Required in the Latin curriculum.

230. CICERO'S ESSAYS, SELECTIONS FROM DE AMICITIA AND DE SENECTUTE. Fall. (4 q. hrs.)

Required in the Latin curriculum.

231. HORACE, SELECTIONS FROM THE ODES, SATIRES, AND EPISTLES. Winter. (4 q. hrs.)

Required in the Latin curriculum.

232. **LIVY, SELECTIONS FROM BOOKS I, XXI, XXII.** Spring.
(4 q. hrs.)
Required in the Latin curriculum.
340. **METHODS OF TEACHING LATIN.** Omitted 1954-55. (4 q. hrs.)
343. **OVID, SELECTIONS FROM TRISTIA, HEROIDES, AMORES, FASTI, METAMORPHOSES.** Omitted 1954-55. (4 q. hrs.)
The life and times of Ovid; Roman and Greek mythology.
Required in the Latin curriculum.
344. **LATIN COMPOSITION.** Omitted 1954-55. (4 q. hrs.)
The purpose of this course is to give the prospective Latin teacher a facility in the use of the more elementary constructions. The exercises are based upon the authors usually read in high school.
Required in the Latin curriculum.
345. **MEDIEVAL LATIN.** Omitted 1954-55. (4 q. hrs.)
Readings in the history, poetry and philosophy of the Middle Ages. Special attention is given to the comparative philology of Latin and the Romance languages.
Required in the Latin curriculum.

(2) French

- 130, 131, 132. **FIRST YEAR FRENCH.** Fall, winter, spring.
(4 q. hrs. for each course.)
Principles of grammar; phonetics; pronunciation and drill in rhythm and intonation; reading of simple French texts; conversation.
No credit for graduation for less than a year's work.
- 230, 231, 232. **SECOND YEAR FRENCH.** Fall, winter, spring.
(4 q. hrs. for each course.)
Review of grammar; exercises in composition; conversation; readings.
Prerequisite: Two years of high-school French or one year of college French.
- 333, 334, 335. **ADVANCED FRENCH.** Fall, winter, spring.
(4 q. hrs. for each course.)
340. **METHODS OF TEACHING FRENCH.** Omitted 1954-55.
(4 q. hrs.)
Required in the French curriculum. Prerequisite: Three years of college French.
- 450, 451, 452. **ALTERNATE ADVANCED FRENCH.** Omitted 1954-55. (4 q. hrs. for each course.)

(3) German

120, 121, 122. SCIENTIFIC GERMAN, FIRST YEAR. Fall, winter, spring. (4 q. hrs. for each course.)

Introduction to the reading and translation of German in technical fields such as physics, chemistry, and biology. The essentials of grammar. Systematic development of a German scientific vocabulary. Elementary readings in science will be followed by the reading of current scientific periodicals published in Germany and Switzerland.

No credit for graduation for less than a year's work.

130, 131, 132. FIRST YEAR GERMAN. Fall, winter, spring. (4 q. hrs. for each course)

Direct method: equal emphasis upon conversation, grammar, reading. Incorporation of cultural, geographical, and historical information. Extensive use of audio-visual aids.

No credit given for less than a year's work.

233, 234, 235. SECOND YEAR GERMAN. Omitted 1954-55. (4 q. hrs. for each course)

Rapid review of grammar. Practice and vocabulary-building exercises in conversation, and regular exercises in composition. Intensive reading of selected short stories and novels.

Prerequisite: German 120, 121, 122, or 130, 131, 132.

(4) Spanish

Students majoring in Spanish should take, in addition to the elementary course, Spanish 130, 131, 132, three sequences from the following and Spanish 340.

130, 131, 132. FIRST YEAR SPANISH. Fall, winter, spring. (4 q. hrs. for each course)

The aim in elementary Spanish is to give the student a working knowledge of the language. To that end great stress is laid upon pronunciation, conversation, and the use of records and films.

No credit for graduation for less than a year's work.

230, 231, 232. SECOND YEAR SPANISH. Fall, winter, spring. (4 q. hrs. for each course)

The first month of Spanish 230 is devoted to a review of the elements of the language. Several comedies and stories are read. Ample opportunity is given for conversation in Spanish; numerous films are used to acquaint students with the history and culture of Spanish speaking countries; listening to records in rooms provided

for this purpose is considered a part of the course.

Prerequisite: Two years of Spanish in high school or one year in college.

233, 234, 235. INTERMEDIATE SPANISH. Omitted 1954-55.

(4 q. hrs. for each course.)

Exercises in grammar; practice in conversation; reading from Spanish American literature.

Prerequisite: Two years of Spanish in high school or one year in college.

336. SPANISH AMERICAN SHORT STORY. Fall. (4 q. hrs.)

Prerequisite: Second year Spanish.

337. READINGS IN SPANISH AMERICAN POETS. Winter.

(4 q. hrs.)

Prerequisite: Second year Spanish.

338. SELECTED SPANISH AMERICAN NOVELS. Spring.

(4 q. hrs.)

Prerequisite: Second year Spanish.

339. SELECTED SPANISH NOVELS. Omitted 1954-55. (4 q. hrs.)

340. METHODS IN THE TEACHING OF SPANISH.

Omitted 1954-55. (4 q. hrs.)

341. INTRODUCTION TO SPANISH CIVILIZATION.

Omitted 1954-55. (4 q. hrs.)

342. INTRODUCTION TO SPANISH-AMERICAN CIVILIZATION.

Omitted 1954-55. (4 q. hrs.)

433, 434, 435. READINGS IN SPANISH DRAMA OF THE NINETEENTH CENTURY. Omitted 1954-55. (4 q. hrs. for each course.)

453, 454, 455. SURVEY OF THE LITERATURE OF SPAIN.

Omitted 1954-55. (4 q. hrs. for each course.)

(5) Comparative Literature (in English Translation)

550. GREEK LITERATURE IN ENGLISH TRANSLATION.

Summer. (4 q. hrs.)

The first of three courses dealing with our cultural heritage. Reading and discussion of masterpieces of Greek literature by the following authors: Homer (The Iliad and the Odyssey); lyric poets; Aeschylus (Prometheus Bound*); Sophocles (Oedipus the King*);

Euripides (Hippolytus*); Aristophanes (The Clouds); Herodotus (The Persian Wars); Thucydides (The Peloponnesian War); Plato (The Apology,* Phaedo, and Republic); Aristotle (Nicomachean Ethics, Politics, and Poetics); Epictetus (The Manual); Demosthenes (On the Crown). Works followed by an asterisk are read in their entirety.

Open only to graduates. May be offered toward Group III requirements for the Master's degree.

551. LATIN LITERATURE IN ENGLISH TRANSLATION.

Summer. (4 q. hrs.)

Reading and discussion of selections from Latin literature: in comedy, a play of Plautus and Terence; in tragedy, the *Medea* of Seneca; in philosophy, Lucretius, Cicero, and Seneca; in history, Caesar, Sallust, Livy, Suetonius, and Tacitus; in poetry of various types, Catullus, Vergil, Horace, Tibullus, Propertius, Ovid, Martial, and Juvenal. No knowledge of Latin required.

Open only to graduates. May be offered toward Group III requirements for the Master's degree.

FRENCH

(See Foreign Languages)

GEOGRAPHY

Note: Geography 120, 221, and 236 are required of students in the elementary curriculum. Geography 120, 130, 221, 240, 236, and 447 give a minor which meets the state requirements for the teaching of physical and commercial geography in high school.

120. PRINCIPLES OF GEOGRAPHY. Every quarter. (4 q. hrs.)

A survey of the basic relationships between the natural environment and man's activities. This course is organized as a service course for those who are preparing for elementary school teaching and as a foundation for those who have selected geography as a major or minor subject. A one day field trip gives the student an opportunity to study the physical environment and economic development in the Charleston area.

Required in the geography and social science curricula.

130. GEOGRAPHY OF NORTH AMERICA. Every quarter.

(4 q. hrs.)

A study of the countries of North America, with special reference to the United States, showing the geographic basis for their stages of development and commercial relations.

Required in the geography and social science curricula. Prerequisite: Geography 120.

221. CLIMATOLOGY. Fall and winter. (4 q. hrs.)

A treatment of climates and their causes. As a basis a study is made of the form and motions of the earth as underlying influences upon the elements of weather and climate. Two recitations and two 2-hour laboratory periods per week.

Required in the geography and elementary curricula. Prerequisite: Sophomore standing or permission of the instructor.

233. GEOMORPHOLOGY. Spring. (4 q. hrs.)

A study of the processes which change the surface of the earth. The course includes work in interpreting the earth's surface through the use of topographic maps. This course is recommended to those who may teach physiography or general science in high school. Two recitations and two 2-hour laboratory periods per week.

Required in the geography curricula. Prerequisite: Sophomore standing or permission of the instructor.

236. ELEMENTS OF GEOLOGY. Fall and spring. (4 q. hrs.)

A study of the principles and lines of reasoning by which the history of the earth and of its life forms has been learned. The course is planned to give a general, not technical, knowledge which may help students to observe and enjoy the out-of-doors and to give a background for geography, botany, and zoology. Two recitations and two 2-hour laboratory periods per week.

Required in the geography and elementary curricula. Prerequisite: Sophomore standing or permission of the instructor.

240. WORLD REGIONAL GEOGRAPHY. Winter. (4 q. hrs.)

A survey course to give the student a concept of the geography of the world on a regional basis. It affords the student the opportunity of understanding the interrelationships between the various regions of the world and illustrates the application of geographic principles in numerous centers.

Required in the geography curriculum. Prerequisite: Geography 120.

281F(54) or 381F(54) or 481F(54) or 581F(54). FIELD STUDY OF THE REGIONAL GEOGRAPHY OF NORTH AMERICA.

Post-summer session. (4 q. hrs.)

Field study in southeastern Canada, August 6-24. Points of particular interest to students of geography include: Montreal, Quebec, Ontario plains, the lower St. Lawrence River, French Canada, and the industrial Saguenay River Valley. Undergraduate credit earned in this course may be used as elective credit in any curriculum. In some curricula this credit may be substituted for certain required courses.

Credit earned in Geography 481F or 581F may be counted toward the Master's degree. Credit for 581F may be offered toward Group III requirements and in some instances advisers may approve credit for Group II requirements under 481F.

300, 301, 302. GENERAL GEOGRAPHY FOR THE ELEMENTARY TEACHER. Fall, winter, spring. (4 q. hrs. for each course.)

This sequence of three courses is designed especially for the elementary teacher and enrollment is restricted to those students majoring in elementary education. Approximately one half of the year's work is devoted to the study of the principles of geography and the remainder of the course is devoted to regional geography. Field work, map interpretation, the development of landforms, weather and climate, rocks and minerals and the regional geography of each continent is included in this sequence of courses. The courses must be taken in the order of numbering and it is suggested that the student complete the sequence in a single year.

340. METHODS AND MATERIALS IN GEOGRAPHY IN THE ELEMENTARY AND SECONDARY SCHOOLS. Winter. (4 q. hrs.)

The characteristics of geography and its place in the elementary and secondary school curricula; training in methods of study; selection and critical examination of text and reference books; illustrative material and visual aids; examination and appraisal of classroom procedures.

Required in the geography curriculum.

344. TRADE AND TRANSPORTATION. Spring. (4 q. hrs.)

A survey of the major trade regions of the world and the transportation facilities which have contributed to their development.

Required in the geography curriculum.

350. MAP INTERPRETATION. Winter. (4 q. hrs.)

A course designed to provide the student with the methods and materials of cartography basic to an understanding of the use of maps.

Elective in geography, required in conservation curriculum. Prerequisite: Junior standing or permission of the instructor.

446. URBAN GEOGRAPHY. Spring. (4 q. hrs.)

A study of the site, relative position, functions, and development of urban centers, with a study of Charleston used as an example.

Required in the geography curriculum.

447. ECONOMIC GEOGRAPHY. Fall and spring. (4 q. hrs.)

An advanced course for teachers of commercial geography in high school or for persons interested in studying the economic conditions which affect our daily lives. The occupational approach is followed.

Required in the geography and social science curricula. Prerequisite: Senior college standing.

448. THE CONSERVATION OF NATURAL RESOURCES. Fall and summer. (4 q. hrs.)

A study of problems dealing with the conservation of soil, minerals, forests, animals, and waters, with special reference to the United States.

Prerequisite: Senior college standing or permission of instructor.

451 (331). GEOGRAPHY OF SOUTH AMERICA. Fall. (4 q. hrs.)

This course includes a study of all Latin America. It shows the geographic basis for their stages of development and for their commercial relations especially with the United States. It furnishes a background for understanding the "good neighbor" policy.

Required in the geography and Spanish curricula. May be taken for credit toward the Master's degree.

452 (343). GEOGRAPHY OF EUROPE. Fall. (4 q. hrs.)

A study of the countries of Europe showing the geographic basis for their stages of development and commercial relations; emphasis upon current problems.

Required in the French curriculum. May be taken for credit toward the Master's degree.

453 (345). GEOGRAPHY OF ASIA. Winter. (4 q. hrs.)

An advanced course. After a general survey of the continent, China, Japan, U.S.S.R., India, and the East Indies are studied in detail.

May be taken for credit toward the Master's degree.

454. GEOGRAPHY OF AFRICA AND AUSTRALIA.

Fall. (4 q. hrs.)

A regional study of Africa, Australia, New Zealand, East Indies, and the Islands of the Pacific. Political and economic regions are considered. The influence of the physical environment on colonial enterprises and the economic development of these regions are stressed.

May be taken for credit toward the Master's degree.

455. GEOGRAPHY OF THE U.S.S.R. Winter. (4 q. hrs.)

A regional study of the Soviet Union. This work includes a study of the physical environment as well as the cultural environment under which the Russian people live and work. A detailed analysis of the present economic development and of the industrial potential of the Soviet nation is made.

490. SPECIAL PROBLEMS IN GEOGRAPHY. Any quarter.

(2 q. hrs.)

A course which provides opportunity for the student to do special work in the field of geography. Designed for the individual needs of the student at either the undergraduate or graduate level.

550. GEOGRAPHIC INFLUENCES IN WORLD AFFAIRS. Fall.

(4 q. hrs.)

This course is offered as one of the cultural courses in the graduate program. The student is given the opportunity to study the relationship between man and his environment with particular emphasis upon the effect of natural resources, agricultural and industrial production and transportation in developing national policy. Problems of international politics are considered and the geographic foundations of these problems analyzed. The course is designed for the student with little or no previous work in geography.

Open only to graduates. May be offered toward Group III requirements for the Master's degree.

555. THE LITERATURE AND MATERIALS OF GEOGRAPHY.

Summer. (4 q. hrs.)

This course is developed to acquaint graduate students in geography with the materials available for study and for teaching in the field. An analysis of the basic philosophies in geography is made and readings are provided which illustrate the teachings of these philosophies.

Open only to graduates.

565. HISTORICAL GEOGRAPHY OF THE UNITED STATES.

Winter. (4 q. hrs.)

An analysis of the geography of the United States with emphasis upon the interrelationship between the physical environment and the settlement and development of various sections of the country. The course is organized under topics and regions which utilize both geography and history for definition.

Open only to graduates.

575. ADVANCED ECONOMIC GEOGRAPHY—MINERAL INDUSTRIES. Winter. (4 q. hrs.)

An analysis of the world's mineral deposits and their development. Power resources, metallic and non-metallic minerals and the associated industries are studied. The influence of the location of mineral deposits and industrial areas upon population patterns and world trade is emphasized.

Open only to graduates.

576. ADVANCED ECONOMIC GEOGRAPHY—AGRICULTURAL INDUSTRIES. Fall. (4 q. hrs.)

An analysis of the producing and consuming areas of the world. Attention is given to both food producing areas and to areas producing agricultural goods as raw materials for industry. Problems associated with agricultural production and the rapidly increasing population are considered.

Open only to graduates.

590. SEMINAR IN EDUCATIONAL GEOGRAPHY.

Every quarter. (4 q. hrs.)

The place of geography in the curriculum at all levels of instruction from the elementary school through the junior college is considered. The student is required to present a written report of significant research on some phase of educational geography. The subject of this report will presumably arise from the experience of the student in teaching in the public schools.

Open only to graduates.

GERMAN

(See Foreign Languages)

HEALTH EDUCATION

Requirements for a Minor in Health Education:

Health Education 320, Physiology 345, Psychology 455 and three courses chosen from the following: Physical Education 131, Home Economics 102, Zoology 225, Physical Education 227, Botany 235, Health Education 330 or 331, but not both.

120. PERSONAL HYGIENE. Every quarter. (4 q. hrs.)

This course is largely personal hygiene, and stresses nutrition, digestion, dental hygiene, circulation, respiration, excretion, endocrines and emotional health. It gives brief attention to the broad field of public or community health as it may affect the student, and considers the principles of bacteriology and immunology and a few important communicable diseases.

Required in all curricula.

320. SCHOOL AND COMMUNITY HEALTH PROBLEMS. Winter. (4 q. hrs.)

This course is designed for teachers and emphasizes their part in the development of a health program in the schools. It tries to create a better understanding of the physical and mental health of the school child, and gives special attention to the exceptional or handicapped child, to the detection of defects by testing and observation, and to the facilities available for the correction of defects.

Required in the physical education curriculum for women. Prerequisite: Health Education 120 or its equivalent; junior standing.

330. MATERIALS AND METHODS OF TEACHING SAFETY EDUCATION. Winter. (4 q. hrs.)

This course includes a study of the subject matter of safety education from the standpoint of the prospective teacher. Attention is given to selecting and organizing teaching materials relative to the safety problems of modern life in the home, school, during recreation, on the highway, and at work.

Elective in the Health Education minor.

331. DRIVER EDUCATION AND TRAFFIC SAFETY. Fall and spring. (4 q. hrs.)

The purpose of this course is to prepare driver education teachers for secondary schools. Emphasis is placed upon the importance of the traffic safety problems, available instructional materials in this area, and the recommended methods of presenting such materials in the classroom and in the car on the road. Includes laboratory work with students in the driver education classes of the Campus High School.

Prerequisite: (1) Student must have an Illinois driver's license, (2) Student must have a safe driving record. Elective in the Health Education minor.

HISTORY

(See Social Science)

HOME ECONOMICS

Note 1. The four-year curriculum in home economics is designed to prepare students to meet the qualifications to teach home economics in high schools which receive Federal and State aid under Vocational Laws. A grade point average of 1.5 is required to qualify for teaching in vocational schools.

2. Home Economics 101, 202, 203, 204, 232, 320, 330, and 344 have 2 lecture periods and 2 laboratory periods (100 minutes each) a week; Home Economics 201 and 304 meet 8 periods a week; other Home Economics courses meet 4 periods a week.

101. PERSONALITY DEVELOPMENT AND CLOTHING SELECTION. Fall and winter. (4 q. hrs.)

Personality development through the study of costume selection, good grooming and social practices.

Required in the home economics curriculum. Fee 50 cents.

102. ELEMENTARY NUTRITION. Fall and winter. (4 q. hrs.)

The basic principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

Required in the home economics curriculum.

201. CLOTHING CONSTRUCTION. Fall and spring. (4 q. hrs.)

Fundamental principles of clothing construction.

Required in the home economics curriculum. Prerequisite: Home Economics 101. Fee 50 cents.

202. FOOD PREPARATION. Fall. (4 q. hrs.)

A study of the scientific principles underlying food preparation and their application illustrated in the laboratory.

Required in the home economics curriculum. Prerequisite: Home Economics 102, Chemistry 130, 131. Fee \$2.00.

203. ADVANCED FOOD PREPARATION. Winter. (4 q. hrs.)

A continuation of Home Economics 202 with consideration of more advanced problems.

Required in the home economics curriculum. Prerequisite: Home Economics 102, 202; Chemistry 210, 211, 212. Fee \$2.00.

204. MEAL MANAGEMENT AND TABLE SERVICE. Spring.

(4 q. hrs.)

Selection, purchase, preparation and service of food, considering dietary standards, food habits and nutritional needs of groups. Preparation and service of food for special occasions are also considered.

Required in the home economics curriculum. Prerequisite: Home Economics 102, 202, 203. Fee \$2.00.

205. FOOD PREPARATION AND MEAL SERVICE. Fall and summer. (4 q. hrs.)

Fundamental processes in planning, preparing, and serving family meals. Consideration is also given to the selection of foods in the markets. This course is offered to students not majoring in Home Economics who desire some practical knowledge of preparing and serving food.

Fee \$2.00.

232. TEXTILES AND CLOTHING. Fall and winter. (4 q. hrs.)

Study of weaves, yarns, fibers, and finishes with reference to selection of fabrics for clothing and the home. Practical application is made with a textile fabric.

Required in the home economics curriculum. Prerequisite: Home Economics 101, 201. Fee 50 cents.

245. HOUSEHOLD MANAGEMENT. Spring. (2 q. hrs.)

The principles of scientific management as applied to the home; includes a study of family finance, household buying, care of equipment, time and energy management, and housing problems.

Required in the home economics curriculum.

246. HOME NURSING. Spring. (2 q. hrs.)

A study of the factors which determine personal health and the intelligent management of illnesses in the home.

Required in the home economics curriculum.

304. ADVANCED CLOTHING. Winter and spring. (4 q. hrs.)

Selection and construction of tailored garments.

Required in the home economics curriculum. Prerequisite: Home Economics 101, 201, 232. Fee 50 cents.

320. FAMILY HOUSING. Winter. (4 q. hrs.)

This is a general course in housing planned from the standpoint of function and family need. It includes personalizing, judging, and analyzing house plans to give the best arrangement and use of space.

Required.

330. HOUSEHOLD EQUIPMENT. Fall. (4 q. hrs.)

Study of the selection, construction, operation and care of household equipment, and their relation to the well-being of the family group.

Elective. Fee \$2.00.

340. METHODS OF TEACHING HOME ECONOMICS. Spring. (4 q. hrs.)

This course deals with the principles of teaching as applied to home economics, the development of home economics curricula, and the organization and administration of homemaking departments in the public schools.

Required in the home economics curriculum.

344. NUTRITION AND DIETETICS. Spring (4 q. hrs.)

The chemistry and physiology of nutrition; food requirements of persons of different ages; adapting diet to nutritional disorder.

Required in the home economics curriculum. Prerequisite: Home Economics 102; Chemistry 210, 211. Fee \$2.00.

345. HOME MANAGEMENT HOUSE. Every quarter. (4 q. hrs.)

Experience in the practical application of the principles of household management is offered through a twelve weeks' residence period in the Home Management House.

Required in the junior year of the home economics curriculum. Prerequisite: Home Economics 245 and 204.

346. CHILD DEVELOPMENT. Winter. (4 q. hrs.)

The physical, mental, social and emotional development of the young child with discussion of home problems.

Required in the home economics curriculum.

347. FAMILY RELATIONSHIPS. Fall. (4 q. hrs.)

A study of trends in family life, including social and economic changes which affect family living.

Required in the home economics curriculum.

348. CHILD DEVELOPMENT LABORATORY. Spring. (4 q. hrs.)

Discussion of factors involved in the physical, mental, emotional, and social development of the pre-school child. Opportunity is provided for students to participate in a child development laboratory.

Elective.

350. CONSUMERS' EDUCATION. Winter. (4 q. hrs.)

A study of the consumers' problems in the present-day markets; factors influencing consumers' demands; standardization and informative labeling.

360. QUANTITY COOKERY. Winter. (4 q. hrs.)

Methods of food preparation in quantity; menu planning for institutions; recipe selection and standardization; economical use of materials and time. Practical experience is offered through the use of the college cafeteria.

Elective. Prerequisite: Home Economics 102, 202, 203, 204.

365. INSTITUTION MANAGEMENT. Omitted 1954-55. (4 q. hrs.)

Organization and management of institution kitchens, including selection, use and care of institution equipment; food cost and accounting; food laws, and personnel management. Prepares student to handle school lunch rooms, cafeterias, or commercial food production.

Elective. Prerequisite: Home Economics 360.

430. HOME FURNISHINGS. Spring. (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Emphasis is placed on consideration of needs and available resources of the family and on the importance of intelligent planning in the selection, combination, and use of furnishings. Making of draperies, slip-covers, and the upholstering of furniture is included in the laboratory work.

Elective. Fee \$2.00.

435. SPECIAL PROBLEMS IN HOMEMAKING EDUCATION.

Spring. (4 q. hrs.)

This course presents the philosophy of adult education; the organization, promotion, and subject-matter content designed for adult classes as taught by the vocational homemaking teacher; and the tailoring of the class into a long-time adult school program. Time is given to the consideration of ways to develop a worthwhile Future Homemakers of America and to integrate it with the teaching program.

Elective.

INDUSTRIAL ARTS**134. BENCH WOODWORK. Fall and winter. (4 q. hrs.)**

The function, care, and use of the principal woodworking hand tools are studied in this course. Consideration is given to many types of available woodworking supplies and also to elements of woodfinishing. Two class discussions and 6 hours laboratory work each week.

Required in the industrial arts curriculum. Fee \$2.50 (includes all supplies).

135. INTERMEDIATE WOODWORK. Winter and spring. (4 q. hrs.)

This course is a continuation of Industrial Arts 134. Additional tools and materials are studied. A study of lumber is made. A limit is set as to types of projects undertaken. Two class discussions and 6 hours of laboratory work each week.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 134. Fee \$2.00.

136. GENERAL METAL. Fall and spring. (4 q. hrs.)

This course is planned to develop manipulative skill in the use of hand tools for working common metals as tool steel, mild steel, and art metals. Processes in bending, beating, shaping, and finishing hot and cold metal are studied. A study of metal working tools and materials is considered. Two class discussions and 6 hours laboratory work each week.

Required in the industrial arts curriculum. Fee \$3.00 (includes all supplies).

150. APPLIED ELECTRICITY. Fall and spring. (4 q. hrs.)

Problems of the consumer. Treatment of electrical problems arising around the home forms the core for the course. House wiring, power circuits, automotive electricity, and the repairing of electrical appliances are studied. Working techniques are stressed. Four class discussions and 2 hours laboratory work each week.

Required in the industrial arts curriculum. Fee \$2.50 (includes all supplies).

224. PRIMARY GRADE HANDWORK. Fall and spring. (4 q. hrs.)

A course to familiarize teachers of the lower grades with the use of handwork for educational ends. Materials such as paper, textiles, reed, raffia and clay are used. A teacher's manual is developed. Two class discussions and 6 hours' laboratory work each week.

Industrial Arts 224 or 225 required in the elementary curriculum. Fee \$2.50.

225. INTERMEDIATE GRADE HANDWORK. Winter. (4 q. hrs.)

This is a course for teachers of the upper elementary grades. Students taking this course may not elect Industrial Arts 452 for credit. Constructional activities in woods, metals, ceramics, and graphic arts are included with studies of tools and materials for elementary crafts programs. Two class discussions and 6 hours laboratory work each week.

Industrial Arts 225 or 224 required in the elementary curriculum. Fee \$2.50 for supplies.

226. SHEET METAL. Fall and winter. (4 q. hrs.)

Special emphasis is given to the development of skill in the use of hand tools for shaping sheet metal. The use of machines is also included. A study of pertinent subject matter is a part of the course.

Some practice in surface development is given. Two class discussions and 6 hours laboratory work each week.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 232. Fee \$2.50.

231. MECHANICAL DRAWING I. Fall and winter. (4 q. hrs.)

This course includes instruction in instrumental practice, lettering, sketching, geometrical construction, techniques of drafting, orthographic projection, dimensioning, auxiliary and sectional views. One class discussion and 7 hours laboratory work each week.

Required in the industrial arts and basic engineering curricula. Fee \$1.50 (includes drawing paper).

232. MECHANICAL DRAWING II. Winter and spring. (4 q. hrs.)

This course is a continuation of Industrial Arts 231 and includes the development of surfaces, pictorial drawing, representations of fasteners used in machine design, and a study of the standards and methods of drafting as used in the larger industries. Two class discussions and 6 hours of laboratory work each week.

Required in the industrial arts and basic engineering curricula. Prerequisite: Industrial Arts 231. Fee \$1.50 (includes drawing paper).

233. MECHANICAL DRAWING III. Spring. (4 q. hrs.)

This course, which emphasizes the technique of drafting, includes the making of complete drawings of machines. The analysis of projects and shop sketching receives special attention. The standards and methods of the larger industries are applied to all of the work of the course. Reproducing drawings is included. Two class discussions and 6 hours of laboratory work each week.

Elective in the industrial arts and basic engineering curricula. Prerequisite: Industrial Arts 232. Fee \$1.50 (includes drawing paper).

259. PRINTING I. Fall. (4 q. hrs.)

The fundamentals of hand composition and platen presswork are taught. Methods of teaching printing in secondary schools are discussed. Two class discussions and 6 hours of laboratory work each week.

Required in the industrial arts curriculum. Fee \$2.00.

260. PRINTING II. Winter. (4 q. hrs.)

The elements of typographic design as applied to common business forms and commercial printing are taught. Instruction and practice in platen and cylinder presswork are given. Two class discussions and 6 hours of laboratory work each week.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 259. Fee \$2.00.

336. MILLWORK. Spring. (4 q. hrs.)

This is a course which stresses furniture and cabinet making with

the use of woodworking machines. The care and adjustment of machines are included. Those who take this course may expect the variety of projects to be limited in order that certain essentials may be covered. Two class discussions and 6 hours laboratory work each week.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 135. Fee \$2.00.

340. METHODS OF TEACHING INDUSTRIAL ARTS. Winter.

(4 q. hrs.)

The problem of organization of industrial arts subject matter for instructional purposes is the primary aim of this course. Activity analysis is the method of approach. The determination of equipment lists based upon the teacher's objectives is included.

Required of all industrial arts majors. Prerequisite: Six industrial arts laboratory courses with at least two in same subject. Students completing this course may not elect for credit Industrial Arts 340A.

340A. ORGANIZING AND TEACHING THE GENERAL SHOP.

Winter. (4 q. hrs.)

From the general shop approach the following is included: choosing objectives of work; selecting and organizing teaching materials; preparing equipment lists; shop planning; and testing.

Required of all industrial arts minors. Prerequisite: All laboratory courses required in minor. Students completing this course may not elect for credit Industrial Arts 340.

345. INDUSTRIAL ARTS DESIGN. Fall. (2 q. hrs.)

Designing as applied to shop projects is considered in this course. Fundamental principles of design, freehand sketching, the selection and use of color, and modern designing are covered.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 134, 136, and 232.

350. HOUSING I. Fall. (4 q. hrs.)

This course includes neighborhood planning as it affects residential districts, purchasing the lot, selection of the architect, planning the rooms, heating, ventilation and insulation. A modern house is planned and presentation drawings are prepared.

Required in the industrial arts curriculum. Fee \$1.50 (includes drawing paper).

352. MACHINE METAL WORK I. Fall. (4 q. hrs.)

This course presents the basic principles of machine shop with emphasis on applied engine lathe work. Beginning applied work is introduced for the drilling machine, miller, and shaper. The operation, adjustment and care of these machines is covered. Two class discussions and 6 hours of laboratory work each week.

Prerequisite: Industrial Arts 136. Required in the industrial arts curriculum. Fee \$3.00 for supplies.

354. MACHINE METAL WORK II. Winter. (4 q. hrs.)

This course covers additional fundamental principles of machine work with applied work on the drilling machine, grinding machines, miller, and shaper. The care and repair of these machines are included. Two class discussions and 6 hours of laboratory work each week.

Prerequisite: Industrial Arts 352. Required in the industrial arts curriculum. Fee \$3.00 for supplies.

355. HOUSING II. Spring. (4 q. hrs.)

This course is a continuation of Industrial Arts 350. A study of principles of construction is made. The student completes working drawings for a house and prepares simplified specifications for it. Two class discussions and 6 hours laboratory work each week.

Required in the industrial arts curriculum. Prerequisite: Industrial Arts 350. Fee \$1.50 (includes drawing paper).

356. MACHINE METAL WORK III. Spring. (4 q. hrs.)

In this course the student is required to undertake the construction of a major piece of work such as a drill press, shaper, saw, or jointer. The student chooses his problems with the approval of the instructor. A study of pertinent subject matter is a part of the course. Seven hours of laboratory work each week and one hour for class work.

Prerequisite: Industrial Arts 354. Fee \$2.00 (does not include supplies).

**361. LINOTYPE OPERATION AND MAINTENANCE. Spring.
(4 q. hrs.)**

This course includes instruction in the care, adjustment, and repair of the linotype as well as practice in the operation of the machine. Two hours of class work and 6 hours of laboratory work per week. (Students desiring this course should make arrangements with the instructor.)

Prerequisite: Industrial Arts 260. Fee \$3.00.

365. WOODFINISHING. Fall. (2 q. hrs.)

Preparation of wood, bleaching, staining, varnishing, painting, lacquering, crystal and wrinkle enamels.

Prerequisite: Shop work approved by instructor. Required in the industrial arts curriculum. Fee \$1.50 (includes supplies).

375 (275) WOODTURNING. Fall. (2 q. hrs.)

In this course a study is made of the operation and care of lathes. Training is given in the use of lathe tools for spindle and face plate turning. Special written assignments, one class discussion and 3 hours of laboratory work each week.

Prerequisite: Industrial Arts 135. Fee \$1.00.

420. (460). GAS AND ELECTRIC ARC WELDING. Winter.**(4 q. hrs.)**

This course is devoted to a study of the technical materials in welding and the development of skill in welding with gas, with direct current electricity, and with alternating current electricity. Two class discussions per week and 6 hours of drill work.

*Fee \$5.00.***444. TOOL MAINTENANCE. Fall. (2 q. hrs.)**

This course includes instruction in reconditioning and care of both hand and power driven saws. Some time is given to reconditioning and care of other power driven woodworking tools. One class discussion and 3 hours laboratory work each week.

*Prerequisite: Industrial Arts 336. Fee \$1.00.***447. SPECIAL PROBLEMS IN INDUSTRIAL ARTS. Every quarter.****(4 q. hrs.)**

In this course considerable latitude is allowed the student to choose, fabricate, and finish a major piece of work. A substantial term paper is required in a related area of industrial activity. Eight hours laboratory per week.

*Prerequisite: Industrial Arts major of advanced standing and demonstrated high qualities of workmanship. Fee \$2.00.***451. ORGANIZATION OF SUBJECT MATTER. Offered on demand.****(4 q. hrs.)**

This is a continuation of Industrial Arts 340 and involves advanced work in the preparation of instructional material with a view to providing for individual progress. Students taking this course for graduate credit must evaluate their prepared instructional materials in terms of commonly accepted "Principles of Teaching". (This course can be taken only by special arrangement with instructor in advance of registration.)

*Prerequisite: Industrial Arts 340. May be taken for credit toward the Master's degree.***452 (240). RECREATIONAL CRAFTS. Spring. (4 q. hrs.)**

Instruction and work experiences are provided in the areas of plastics, art metal, Keene cement, block printing and wood craft. This course is designed for those interested in crafts for teaching purposes or leisure-time pursuits. Students electing this course may not elect Industrial Arts 225 for credit. Students taking this course for graduate credit will make a substantial investigation and report on a selected crafts topic of special interest in addition to the regular course requirements. Two class discussions and 6 hours of laboratory work each week.

Elective. Fee \$2.50. May be taken for credit toward the Master's degree.

550. GRAPHIC ARTS IN A CHANGING CULTURE. Spring.**(4 q. hrs.)**

This course is offered as one of the cultural courses in the graduate program. It is designed for the student with little or no previous work in printing or allied subjects. The purpose is two-fold: first, to develop an appreciation of the position and influence of printing historically and in present-day living; and second, to provide experiences which will lead to a clearer comprehension of the creation and use of printed products. Laboratory experiences in selected graphic arts activities, field trips, and extensive use of visual materials in instruction are essential elements of the course.

Open only to graduates. May be offered toward Group III requirements.

560. ACHIEVEMENT EVALUATION IN INDUSTRIAL ARTS.**Fall. (4 q. hrs.)**

Consideration of kinds and types of evaluating instruments, general principles of test construction, and the construction of several tests are the principal parts of the course. The evaluation of laboratory work is considered.

Open only to graduates.

561. COURSE MAKING IN INDUSTRIAL ARTS. Fall. (4 q. hrs.)

The horizontal and vertical approach is used. The student is required to construct at least one complete course outline and evaluate it against accepted criteria.

Open only to graduates.

565. PHILOSOPHY OF PRACTICAL ARTS EDUCATION. Winter.**(4 q. hrs.)**

In this course the sociological principles, theories, and beliefs which have contributed to present outstanding educational practices are considered. The relationships of practical arts education, vocational education, and general education are discussed. The philosophical considerations underlying vocational education in respect to recent developments in terminal educational programs are stressed. This course should be of value to public school administrators and supervisors as well as to industrial education teachers.

Open only to graduates.

570. DESIGN AND CONSTRUCTION IN INDUSTRIAL ARTS.**Winter. (4 q. hrs.)**

This course is intended to give practice in designing problems in selected areas of industrial arts activities. Special attention is given to combining in the chosen problems good principles of design and principles of construction suitable to equipment found in industrial arts laboratories and to desired teaching units. Major emphasis is on designing of projects for grades 7-12. Two hours class work each week and four hours of laboratory work.

Prerequisite: Industrial Arts major including a background in principle of design. Open only to graduates.

575. SPECIAL INVESTIGATIONS IN INDUSTRIAL ARTS.

Every quarter. (4 q. hrs.)

Designed for those who wish to develop instructional aids, devices, or problems for the teaching of industrial education. Projects must contain approved factors of educational significance, technical accuracy and be of a type not previously covered by the individual. Combines use of laboratory facilities and literature. A written plan for work to be undertaken first must be approved by assigned adviser and head of department. Conducted by conference method. A detailed written report of work undertaken is required at close of course.

Open only to graduates.

580. PLANNING OF INDUSTRIAL ARTS LABORATORY.

Spring. (4 q. hrs.)

A study is made of the building and equipment needs for various industrial arts laboratories. Special consideration is given to both industrial arts and general education objectives so that laboratories may be planned for optimum student development. Opportunities are offered for planning industrial arts laboratories.

Open only to graduates.

JOURNALISM

(See English 210J, 211J, 212J, 310J, 311J, 312J)

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

Note: Courses numbered 250, 330, and 350 are required for certification as a teacher-librarian in Illinois. A minor in Library Science, consisting of 24 quarter hours, is required for certification by the North Central Association of Colleges and Secondary Schools. Six courses as determined by the head of the department constitute a minor in Library Science.

120. USE OF THE LIBRARY. Every quarter. (1 q. hr.)

An orientation course covering library tools and services, with special emphasis on the use of the card catalog, magazine indexes, and common reference books.

Does not count toward a minor in library science. Required in all curricula. Exemption by pre-test given during first week of each quarter.

250. FUNCTIONS OF THE SCHOOL LIBRARY. Fall. (4 q. hrs.)

Library service in relation to the educational objectives of both elementary and secondary school programs: standards; library staff; housing and equipment; publicity; weeding; repair and binding; circulation procedures; professional organizations. Designed to integrate the work of the school library as a service agency.

324. LIBRARY MATERIALS FOR ELEMENTARY SCHOOLS.

Fall. (4 q. hrs.)

Evaluation and selection of materials for elementary school libraries; examination and study of standard lists and reviewing media; care and use of materials.

325. LIBRARY AS AN INFORMATION CENTER. Winter.

(4 q. hrs.)

Selection and use of practical reference tools for elementary and secondary school libraries; preparation of book lists and bibliographies. Designed to give a knowledge and appreciation of reference functions at the school level.

326. LIBRARY MATERIALS FOR SECONDARY SCHOOLS.

Winter. (4 q. hrs.)

Evaluation, selection and use of materials in secondary school libraries; includes a study of sources, reviews, and bibliographic tools.

330. READING GUIDANCE. Spring. (4 q. hrs.)

Reading interests and needs of young people; examination of books and materials, standard and current, in relation to their usefulness in meeting individual needs and interests and the demands of the school curriculum; guidance in the use of materials.

350. PROCESSING LIBRARY MATERIALS. Spring. (4 q. hrs.)

Methods and mechanical processes necessary to the proper functioning of the school library: ordering, accessioning, classifying, cataloging, subject heading, filing, shelf listing.

MATHEMATICS

120. THE SCIENCE, PSYCHOLOGY, AND TEACHING OF NUMBER. Fall and winter. (4 q. hrs.)

The subject matter and technique of teaching mathematics in the first six grades.

Required in the elementary curriculum. Does not count toward graduation in other curricula.

121. MATHEMATICS IN THE UPPER GRADES. Winter and spring. (4 q. hrs.)

The subject matter of the upper grades is discussed from the

standpoint of the psychological and scientific development and of its use.

Required in the elementary curriculum. Does not count toward graduation in other curricula. Prerequisite: Mathematics 120.

130. ALGEBRA AND TRIGONOMETRY. Fall and winter. (4 q. hrs.)

The function concept. Graphs, fractions, exponents, radicals, and equations involving algebraic and trigonometric functions. Logarithms and the solution of right triangles.

Required in the mathematics curriculum. Prerequisite: One year of high-school algebra and one year of high-school plane geometry.

131. ALGEBRA AND TRIGONOMETRY. Winter and spring.

(4 q. hrs.)

This course is a continuation of Mathematics 130. Linear equations and determinants. Quadratic equations and an introduction to equations of higher degree. Numerical and analytical trigonometry. Complex numbers.

Required in the mathematics curriculum. Prerequisite: Three years of high-school mathematics and permission of the department head, or Mathematics 130.

132. SOLID GEOMETRY. Fall. (4 q. hrs.)

Required of majors and minors in mathematics who have not had solid geometry in high school. Prerequisite: Plane geometry. Does not count toward graduation if student has high school credit in solid geometry.

133. FIELD WORK. Spring. (4 q. hrs.)

Theory and use of the slide rule, spherical trigonometry and applications to elementary celestial navigation, surveying equipment and its use in solving field problems.

Required in the mathematics curriculum. Prerequisite: Plane trigonometry.

134. ANALYTIC GEOMETRY. Fall and spring. (4 q. hrs.)

Application of coordinates, and the processes of algebra to the study of plane geometry. Straight lines, conic sections, polar and parametric forms. Techniques in graphing higher plane curves.

Required in the mathematics curriculum. Prerequisite: Four years of high-school mathematics and permission of the department head, or Mathematics 131.

228. COLLEGE GEOMETRY. Spring. (4 q. hrs.)

The objects of this course are to improve and extend the student's knowledge of the content and methods of Euclidian geometry and to give an introduction to modern geometry. Geometry of the triangle; homothetic figures; harmonic range; cross ratio; introduction to the notion of duality; Desargue's theorem and other classic theorems.

Required in the mathematics curriculum. Prerequisite: Mathematics 134.

235, 236. CALCULUS. Fall and winter; winter and spring.

(4 q. hrs. for each course)

The processes of differentiating and integrating elementary functions. Differentials, definite integrals, curvature, mean value theorem, with numerous applications.

Required in the mathematics curriculum. Prerequisite: Mathematics 134. Prerequisite or co-requisite: high-school solid geometry or Mathematics 132.

340. METHODS OF TEACHING HIGH-SCHOOL MATHEMATICS.

Winter. (4 q. hrs.)

Required in the mathematics curriculum.

343. ALGEBRA. Winter. (4 q. hrs.)

Postulation development of number systems; topics in the theory of equations; theorems about the roots of equations, Horner's and Newton's methods, the cubic and quartic equations, symmetric functions, regular polygons, the trisection problems, determinants and matrices, systems of linear equations.

Required in the mathematics curriculum. Prerequisite: Mathematics 235.

344. ANALYTIC GEOMETRY. Fall. (4 q. hrs.)

Transformations upon the general second degree equation. Elementary curve fitting. Three dimensional geometry.

Required in the mathematics curriculum. Prerequisite: Mathematics 134, 235.

345. CALCULUS. Fall and spring. (4 q. hrs.)

Integration techniques, infinite series, partial differentiation, multiple integration, with applications.

Required in the mathematics curriculum. Prerequisite: Mathematics 235, 236.

450, 451. DIFFERENTIAL EQUATIONS. Omitted 1954-55.

(4 q. hrs. for each course.)

Processes used to find formal solutions of ordinary differential equations, a critical analysis of several elementary types, envelopes and trajectories, use of series in solving differential equations, Picard's method of approximation, singular solutions, applications to mechanical and electrical problems, existence theorems, an introduction to partial differential equations.

Prerequisite: Mathematics 345. May be taken for credit toward the Master's degree.

460, 461. ADVANCED CALCULUS. Winter, spring.

(4 q. hrs. for each course.)

A critical review of the topics studied in elementary calculus; real numbers, functions and their properties, partial differentiation, implicit functions, the Riemann integral, indefinite integrals, definite integrals, improper integrals, line and surface integrals, Green's theorem, Stoke's theorem, infinite series, limiting processes, Fourier series, Gamma and Beta functions, hyperbolic functions, numerous applications.

Prerequisite: Mathematics 345. May be taken for credit toward the Master's degree.

470. STATISTICS. Omitted 1954-55. (4 q. hrs.)

A mathematical treatment of the elements of statistics, elements of probability, frequency distributions, averages, measures of dispersion, linear correlation, correlation ratio, probability function, normal curve, Gram-Charlier Series, introduction to sampling.

Prerequisite: Mathematics 236. May be taken for credit toward the Master's degree.

471. STATISTICS. Omitted 1954-55. (4 q. hrs.)

Topics in mathematical backgrounds of statistics: introduction to the calculus of finite differences; central differences; interpolation; summation of series. The Gamma Function. Sterling's approximation for factorials.

Prerequisite: Mathematics 343, 344, 345. May be taken for credit toward the Master's degree.

480. MATHEMATICS OF FINANCE. Omitted 1954-55.

(4 q. hrs.)

Applications of mathematics to such topics as simple and compound interest, discount, annuities, capitalization, depreciation, and insurance.

Prerequisite: Mathematics 131. Open to advanced undergraduates and to graduates.

490. HISTORY OF MATHEMATICS. Spring. (4 q. hrs.)

The history of mathematics and its role in the development of civilization. Particular emphasis is placed upon the history of elementary mathematics.

May be taken for credit toward the Master's degree.

491. PROBLEMS IN THE TEACHING OF ARITHMETIC.

Summer post-session 1954. (4 q. hrs.)

The purpose of this course is to provide experiences that will help elementary school teachers improve their teaching of arithmetic. The course consists of assigned readings, group discussions, and individual or group projects and reports.

510. MODERN ALGEBRA. Summer 1954. (4 q. hrs.)

The development of number systems from sets of postulates. A

selection of topics from the theories of groups, rings, fields. This course is designed to give the student a better understanding of the nature and scope of algebra as a branch of modern mathematics.

Prerequisite: Mathematics 344; graduate standing or permission of the instructor.

520. HIGHER GEOMETRY. Summer 1956. (4 q. hrs.)

A selection of topics from projective geometry, differential geometry, non-euclidian geometries, and topology. This course is designed to give the student a better understanding of the nature and scope of geometry as a branch of modern mathematics.

Prerequisite: Mathematics 344; graduate standing or permission of the instructor.

530. ANALYSIS. Summer 1955. (4 q. hrs.)

A selection of topics from modern theories of the real number, functions, point sets, transfinite cardinals and ordinals, and Fourier series.

Prerequisite: Mathematics 345; graduate standing or permission of the instructor.

550. MATHEMATICS IN MODERN EDUCATION AND LIFE.

Summer 1954. (4 q. hrs.)

A course designed to give the student an appreciation of the subject matter of elementary mathematics, its role in the development of civilization, and its role in the public school curriculum.

Not open to students who have credit for Mathematics 340. Open only to graduates. May be offered toward the Group III requirements for the Master's degree.

MUSIC

120. INTRODUCTION TO MUSIC. Every quarter. (4 q. hrs.)

Primary emphasis of the course is placed upon the musical development of the prospective teacher by means of group and individual singing, bodily movements in response to rhythms, study of elementary music theory, ear-training and simple dictation, music reading, study of the elements of design in music, and acquaintance with music literature used in the elementary phase of the lower grade music curriculum.

Required in the elementary curriculum.

123, 124, 125. SIGHT SINGING, THEORY AND DICTATION.

Fall, winter, spring. (2 q. hrs. for each course.)

A study of the elements of music—melody, harmony, and rhythm. Aural analysis of scales, chords, intervals, key relationships, melodies, and rhythms; the technique of transferring these sounds to musical

notation. Synthesis through sight singing and simple keyboard harmony.

Required in the music curriculum. These courses meet four periods a week.

126, 127, 128. CLASS INSTRUCTION IN PIANO. Fall, winter, spring. (1 q. hr. for each course.)

A beginning course intended for students who have had no previous piano study. Methods of class instruction are a significant phase of the course. This year's work substitutes for first year piano in applied music. Stress is placed on the development of playing simple melodies and accompaniments including sight reading.

133, 134, 135. THE FIRST YEAR'S WORK IN APPLIED MUSIC. PIANO, VOICE, STRINGS, WOODWINDS, OR BRASSES. Every quarter. (1 q. hr. for each course.)

136, 137, 138. CLASS INSTRUCTION IN VOICE. Fall, winter, spring. (1 q. hr. for each course.)

The first year course in voice. The course includes the development of fundamental vocal techniques, an introduction to song interpretation, and attention to demonstrated methods of teaching singing. This year's work substitutes for first year voice in applied music.

146, 147. VIOLIN CLASS METHODS. Fall, winter. (2 q. hrs. for each course.)

Fee \$1.00 for each course.

228. MUSIC IN ELEMENTARY SCHOOLS. Fall and spring. (4 q. hrs.)

A study of the objectives, methods, and materials of music education in the elementary grades. Teaching theories and basic principles underlying the musical development of the child are discussed in class and made clear through observation of music teaching in the Training School.

Required in the elementary curriculum. Prerequisite: Music 120.

229. MUSIC APPRECIATION. Every quarter. (4 q. hrs.)

An enriching cultural course open to all college students. A study is made of various types and forms of music as a means of increasing the student's enjoyment in listening to music. Many favorite selections from the great masterpieces of music are made familiar through listening and analysis.

Elective in all curricula. Required in the speech curriculum.

230, 231, 232. HARMONY. Fall, winter, spring. (4 q. hrs. for each course.)

A study of the construction and manipulation of the materials of musical composition. This includes a study of harmonic and contra-

puntal devices useful to an understanding of the literature used in music. Emphasis is placed on original scoring and writing for duet, trio, and quartet combinations, and includes the writing of piano accompaniments to songs, keyboard harmonization, and original settings to melodies.

Required in the music curriculum. Prerequisite: Music 125.

233, 234, 235. THE SECOND YEAR'S WORK IN APPLIED MUSIC.

Every quarter. (1 q. hr. for each course.)

236 (336). WOODWIND CLASS METHODS—CLARINETS.

Fall and spring. (2 q. hrs.)

Fee \$1.00.

237. BRASS CLASS METHODS—TRUMPET AND HORN.

Fall and spring. (2 q. hrs.)

Fee \$1.00.

238. VIOLONCELLO AND CONTRA-BASS METHODS. Spring.

(2 q. hrs.)

Fee \$1.00.

256. CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, AND MEN'S GLEE CLUB. (Ensemble)

(1 q. h. each year)

333, 334, 335. THE THIRD YEAR'S WORK IN APPLIED MUSIC.

Every quarter. (1 q. hr. for each course.)

337. BRASS AND PERCUSSION METHODS—TROMBONE, BARITONE, TUBA, AND DRUMS. Winter. (2 q. hrs.)

Fee \$1.00.

338. WOODWIND CLASS METHODS—FLUTE, OBOE, AND BASSOON. Winter. (2 q. hrs.)

Fee \$1.00.

339. METHODS OF TEACHING MUSIC IN ELEMENTARY SCHOOLS. Winter. (4 q. hrs.)

The five-fold program of the elementary school, grades one through eight, is taught through discussion, demonstration, and observation.

Required in the music curriculum.

340. METHODS OF TEACHING MUSIC IN SECONDARY SCHOOLS. Spring. (4 q. hrs.)

The music curriculum of the high school is studied with special emphasis upon the organization and development of music classes and organizations; the selection of materials for programs, contests, and

festivals; the production of operettas; the content of credit courses in music; the use of music tests.

Required in the music curriculum.

347. ORCHESTRATION. Fall. (4 q. hrs.)

A study is made of the musical possibilities and limitations of the various orchestral and band instruments through reading and score study. Projects in scoring for the high school group are required.

Required in the music curriculum. Prerequisite: Music 232.

**351, 352. HISTORY AND APPRECIATION OF MUSIC. Fall, winter.
(4 q. hrs. for each course.)**

The first course emphasizes the development of music from its beginning to the present time. A survey is made of schools, nationalities, composers, emphasizing representative musical literature. The second quarter's work is designed to assist the student to an understanding and an appreciation of music from the listener's standpoint. Methods and materials for teaching are included.

Required in the music curriculum.

**353. HISTORY AND APPRECIATION OF MUSIC. Spring.
(4 q. hrs.)**

This course emphasizes twentieth-century music. An analysis of small and large forms points the direction of contemporary styles in composition. American composers, their contribution to form and harmonic style, and their literary offerings are included.

Required in the music curriculum.

**356. CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN
SINGERS, AND MEN'S GLEE CLUB. (Ensemble)
(1 q. h. each year.)**

**433, 434. THE TENTH AND ELEVENTH QUARTERS' WORK IN
APPLIED MUSIC. Every quarter. (1 q. hr. for each course.)**

435. SENIOR RECITAL. Spring. (1 q. hr.)

The twelfth quarter's work in applied music.

Required in the music curriculum.

449. ELEMENTARY CHORAL CONDUCTING. Fall. (2 q. hrs.)

The problem of conducting is approached through the vocal score and practice is gained through conducting an organized group. The theories and principles of baton technique are discussed and practiced. Choral literature is studied for means of determining criteria for effective interpretation and performance.

Required in the music curriculum.

**450. ADVANCED CONDUCTING AND MATERIALS IN MUSIC.
Winter. (4 q. hrs.)**

A continuation of the study of baton technique, score reading,

and rehearsal routine with emphasis on problems of instrumental ensemble oratorio, and opera. Materials for use in the public school music program are studied and appropriate literature for chamber groups, orchestra and band are included.

Required in the music curriculum. Prerequisite: Music 449. May be taken for credit toward the Master's degree.

451. MUSIC SUPERVISION. Spring. (2 q. hrs.)

A survey of the development of public school music in the United States and of the reconstruction taking place in the present school music program. Criteria for evaluating music instruction and problems of supervision are discussed. Methods for improving instruction by the classroom teacher, personnel problems, and administration of the all-school music program are included.

Required in the music curriculum. May be taken for credit toward the Master's degree.

452. PSYCHOLOGY OF MUSIC. Spring. (4 q. hrs.)

A study of concepts of musical factors and their psycho-physiological implications; development of musical feeling; analysis of musical talent; testing and guidance programs; analysis of factors in musical performance and the application of elements in the psychology of music in a teaching situation.

May be taken for credit toward the Master's degree.

453. ANALYSIS AND FORM IN MUSIC. Winter. (4 q. hrs.)

A study of forms and the various usages of musical elements to create music. A technical analysis of music providing a rational basis for musical interpretation.

May be taken by graduates for credit toward the Master's degree.

454. ADVANCED ORCHESTRATION. Spring. (4 q. hrs.)

A study of instruments of the orchestra and their usage in orchestral writing. A survey of representative scores from Bach to modern composers provides an avenue for an understanding of musical ideas in the orchestral texture. The course serves as an aid to the interpretation of music and builds a knowledge of the basic techniques in writing for instruments.

Prerequisite: Music 347: May be taken for credit toward the Master's degree with permission of instructor and the Dean.

455. INSTRUMENTATION. Summer. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public schools. Group needs are analyzed and projects are prepared and performed by special ensembles.

Prerequisite: Music 347: May be taken for credit toward the Master's degree.

456. CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, MEN'S GLEE CLUB. (Ensemble) (1 q. h. each year)

458. CHAMBER MUSIC OF THE INSTRUMENTAL GROUPS.

Every quarter. (1 q. hr.)

A study is made of literature for instrumental ensembles of standard groupings. Works for teaching and performance purposes serve as materials for the course. Groups meet eighteen one-hour periods.

May be taken for credit toward the Master's degree.

459. Vocal Ensemble. Every quarter. (1 q. hr.)

Groups of vocalists are organized to study literature of the vocal ensemble. Materials comprise literature which may be used for public school teaching and performance. These groups meet eighteen one-hour periods.

May be taken for credit toward the Master's degree.

460. MARCHING BAND PROCEDURE. Summer. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

May be taken for credit toward the Master's degree.

461. INSTRUMENT REPAIR AND ADJUSTMENT. Summer.

(2 q. hrs.)

This is a laboratory course in making the minor adjustments and repairs of string, wind, and percussion instruments which the teacher frequently is called upon to do.

May be taken for credit toward the Master's degree.

500, 501, 502, 503. Individual Instruction in Literature.

Every quarter. (1 q. hr.)

Voice, piano, oboe, flute, clarinet, bassoon, French horn, trumpet, trombone, or strings. A practical course in performance and interpretation of representative compositions.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

510. COUNTERPOINT. Summer. (4 q. hrs.)

This is a basic study of music techniques in polyphonic music. Sixteenth century counterpoint is treated and the style includes that of Palestrina and the English madrigal.

Prerequisite: Music 232. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

511. ADVANCED COUNTERPOINT. Summer. (4 q. hrs.)

The course includes a study of eighteenth century counterpoint in strict and free styles. A study is made of canon and fugue.

Prerequisite: Music 510. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

512. COMPOSITION IN SMALL FORMS. Summer. (4 q. hrs.)

Materials are geared to traditional forms and include styles which may be useful in public school music teaching.

Prerequisite: Music 453. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

513. BAND LITERATURE FOR THE PUBLIC SCHOOLS, Fall. (2 q. hrs.)

The literature of the high school band is included as well as training materials for beginning groups. Materials are analyzed and surveyed in view of needs and interests. Training as well as cultural materials are included.

Primarily for graduates. Open to seniors with permission of instructor and the Dean.

514. MATERIALS OF THE ORCHESTRA. Summer. (2 q. hrs.)

Materials of the high school and elementary school orchestra and the more mature groups are treated. Literature is studied with view of training values as well as for performance.

Primarily for graduates. Open to seniors with permission of instructor and the Dean.

515. MATERIALS OF VOCAL GROUPS. Summer. (2 q. hrs.)

This course is designed to give the vocal director a survey of materials appropriate to the vocal program of the advanced teacher. Materials of the glee club, chorus, and the a cappella choir are read and analyzed. A high standard of music reading and understanding is required for admission.

Primarily for graduates. Open to seniors with permission of instructor and the Dean.

550. MUSIC IN HISTORY. Summer. (4 q. hrs.)

A study of the development of the art from the beginning through the Medieval, Gothic, Renaissance, and Romantic periods to the modern era. The course presents music, not as an isolated art, but as a reflection of the economic, political, and cultural conditions which surround the social and esthetic epochs of the growth of civilization.

Open only to graduates. May be offered toward the Group III requirements for the Master's degree.

551. MUSIC IN CONTEMPORARY CULTURE. Summer. (4 q. hrs.)

This course is designed for the non-music student and is planned to survey the place of music in the cultural pattern of today. A study is made of the music of the radio, moving pictures, stage, and the concert hall. Contemporary personalities, organizations, and centers of musical activity are surveyed.

Open only to graduates. May be offered toward the Group III requirements for the Master's degree.

555. TEACHING TECHNIQUE OF STRINGS. Summer. (2 q. hrs.)

This is an advanced course in the teaching of string instruments. It is designed to give the teacher of music a course which will strengthen his knowledge of methods, techniques, and training literature for public school teaching.

Open only to graduates.

556. TEACHING TECHNIQUES IN WOODWINDS. Summer.

(2 q. hrs.)

This is an advanced course in woodwind instruments. It is designed to give the teacher of music advanced techniques in teaching materials and methods of the woodwind instruments.

Open only to graduates.

557. TEACHING TECHNIQUES IN BRASS AND PERCUSSION.

Summer. (2 q. hrs.)

This course includes a practical course in the advanced techniques of the brass and percussion instruments. Materials and methods pertaining to the instrumental program in the public schools are studied.

Open only to graduates.

560. MUSIC IN THE ELEMENTARY SCHOOL. Summer. (4 q. hrs.)

The advanced course in the teaching of music in the elementary school deals with the child with reference to the problems of teaching singing, rhythms, creative expression, listening experiences, and preparation for the instrumental program. Methods and planning for music expression throughout the various grade levels are given special treatment. Planned for teachers and administrators in elementary schools.

Open only to graduates.

561. METHODS OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS. Summer. (4 q. hrs.)

The problem of attuning the music program to the junior and senior high school levels is given particular attention. Curriculum construction, course content, class voice, the general music class, physical facilities, library building, building the program, assemblies in music, community relationships and materials in music are included for detailed study.

Open only to graduates.

565. COMMUNITY MUSIC. Summer. (2 q. hrs.)

A study is made of music appropriate for community gatherings. The community sing, camp-fire singing, and the church choir are given comprehensive study.

Open only to graduates.

570. SURVEY OF MUSIC LITERATURE. Summer. (4 q. hrs.)

This is a course in musical understanding. Music of the various periods of historical development is heard through recordings and through the performance of members of the staff and qualified students of music. Periods are identified and the styles of composers analyzed in light of their influence on the progress of the art of music. Attention is focused on music that is heard at current concert programs, so that the medium of sound and pertinent information is made familiar to the student.

Open only to graduates.

580. SEMINAR IN THE PROBLEMS OF MUSIC EDUCATION.

Summer. (4 q. hrs.)

The consideration of special problems in music education is planned on an individual basis. Students present individual problems and work on projects under the guidance of members of the music staff.

Open only to graduates.

Applied Music

The student majoring or minoring in music must select piano, voice, a band instrument, or an orchestral instrument as his chief performing medium. In the major applied field, the student must have had at least two years of study previous to college entrance and in the senior year must make a creditable public appearance as a condition of graduation. For other minimum proficiency requirements toward graduation and for applied music requirements for music minors, see music curriculum on page 87.

In order to meet the needs of the teacher of music in public schools the following outline of applied music is required. It shall be noted that the minimum requirements for all majors are two years of piano and one or two years of voice and one year of study on some band or orchestral instrument.

Major	Voice or Piano	12 quar. hours
Minor	Piano or Voice	6 quar. hours
2d Minor	Band or Orch. Instrument	3 quar. hours
or		
Major	Band or Orch. Instrument	12 quar. hours
Minor	Piano	6 quar. hours
2d Minor	Voice	3 quar. hours

Credit in applied music is based upon performance standards and satisfactory progress as determined through individual examination conducted at the close of each quarter: One quarter hour of credit for one half-hour private lesson per week plus daily practice; two quarter hours credit for two half-hour private lessons per week plus daily practice.

Credit Organizations in Music

A music major, upon completing 12 quarter hours in the Department of Music, may register for credit in the following organizations: Band, Chorus, Orchestra, Men's Glee Club, and Cecilian Singers. When qualified, instrumental majors must participate in band, orchestra, and chorus. Vocal majors must participate in chorus, men or women's glee clubs and one of the instrumental organizations. A total of nine hours may thus be earned toward the department requirements for a major in music. A minor in music may, after his freshman year, register for a total of four hours. Non-music majors or minors may participate in the above listed organizations on an extra-curricular basis.

256, 356, 456. Chorus (Choral Ensemble). 1 q. hr. each year.

The chorus presents a Christmas program and other productions each year in the way of standard oratorio or opera. Sacred and secular literature is presented on various occasions. Rehearsals are held twice weekly.

256, 356, 456. Symphonic Band (Band Ensemble). 1 q. hr. each year.

A march unit during the football season and a concert organization throughout the year, giving concerts for student body and the public. Some instruments are furnished to members by the College. Two rehearsals per week. Fee \$2.00 for uniform deposit with a refund of \$1.00 on return of uniform.

256, 356, 456. Orchestra (Orchestra Ensemble). 1 q. hr. each year.

The orchestra appears in public concert each year. In addition the orchestra joins the chorus in presenting major productions in opera, oratorio, and other musical occasions. Many instruments are furnished in order to supply a complete instrumentation.

256, 356, 456. Cecilian Singers (Vocal Ensemble). 1 q. hr. each year.

A woman's glee club open to all students who enjoy this type of organization. This group presents programs several times throughout the year.

256, 356, 456. Men's Glee Club (Men's Vocal Ensemble).

1 q. hr. each year.

A men's chorus provided for all men who enjoy singing in this type of organization. Open to all men students. Presents programs at various occasions throughout the year.

Non-Credit Musical Organizations

VOCAL CHAMBER GROUP ENSEMBLES.

Duets, trios, quartets and mixed groups are organized to enrich

the experience of students in this type of singing. These groups appear at various times for public performance.

CHAMBER GROUPS IN INSTRUMENTAL MUSIC.

Combinations of woodwinds, brasses and standard quintets are organized to enrich the experience of wind players in the standard literature. These groups appear publicly and are regularly in rehearsal.

RECITALS.

Each student graduating with a major in music is required to present an appropriate senior recital demonstrating his musical growth and artistry. Other students are required to appear at least twice each year in the series of student recitals in order to gain experience in musical performance. It is expected that each student will be in attendance at each of these recitals and other musical performances sponsored by the department and the College. The head of the department may in special cases excuse students from the above requirements.

PHYSICAL EDUCATION FOR MEN

During the first three years of residence it is required that all students attend physical education classes regularly three hours each week during the fall and spring quarters and two hours each week during the winter quarter unless this requirement is modified by the college physician. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

It is recommended that the student select a program of activities which will include a minimum of three courses in team games, three courses in individual activities, and one course in dance.

Upon entering College, each student is given a physical examination. When abnormalities and weaknesses are disclosed by the examination, corrective exercise and restricted activities are prescribed. The Health Service follows up all cases in need of medical attention.

Equipment. Each student who takes physical education is required to have a regular gymnasium suit.

This suit consists of a regulation gray jersey and blue running pants. Students with a major in physical education are required to have a regulation blue jersey and blue running pants. All students must have rubber-soled gymnasium shoes. Sweat shirt and pants are recommended as additional equipment.

The student is required to keep these clean and in good condition. For a statement of fees for towel and locker, see page 40.

Required Courses

Courses in required physical education are so numbered as to in-

dicating the level of the work. Courses in the one hundred series indicate beginning work, the two hundred series advanced work, and those followed by the letter T indicate varsity competition.

100. BASIC PHYSICAL EDUCATION. Every quarter. (1 q. hr.)

Activities designed to improve the general fitness and motor ability of students in relation to their individual needs.

101. PRESCRIBED ACTIVITIES. Every quarter. (1 q. hr.)

Corrective exercise and adapted activities for students whose physical condition will not permit participation in the regular activity program.

103. BASKETBALL (Beginning). Winter. (1 q. hr.)

104. RECREATIONAL TEAM GAMES. Spring. (1 q. hr.)

105. SOCCER (Beginning). Fall. (1 q. hr.)

106. SOFTBALL (Beginning). Spring. (1 q. hr.)

107. TOUCH FOOTBALL (Beginning). Fall. (1 q. hr.)

108. VOLLEYBALL (Beginning). Winter. (1 q. hr.)

110. ARCHERY (Beginning). Fall. (1 q. hr.)

111. BADMINTON (Beginning). Winter. (1 q. hr.)

Open to both men and women.

112. GOLF (Beginning). Fall and spring. (1 q. hr.)

Open to both men and women.

113. GYMNASTICS (Beginning). Winter. (1 q. hr.)

114. TENNIS (Beginning). Fall and spring. (1 q. hr.)

Open to both men and women.

115. WRESTLING. (Beginning). Winter. (1 q. hr.)

116. TRACK. Spring. (1 q. hr.)

190. FOLK AND SQUARE DANCING. Winter and spring. (1 q. hr.)
See Physical Education (Women).

191. MODERN DANCE (Beginning). Every quarter. (1 q. hr.)
See Physical Education (Women).

192. SOCIAL DANCE. Every quarter. (1 q. hr.)
See Physical Education (Women).

291. **MODERN DANCE (Intermediate).** Winter and spring. (1 q. hr.)
See Physical Education (Women).
391. **MODERN DANCE (Composition).** Winter. (1 q. hr.)
See Physical Education (Women).

Professional Courses

120. **SPORT TECHNIQUE IN TENNIS, GOLF, ARCHERY, AND BADMINTON.** Spring. (4 q. hrs.)
The rules and technique of tennis, golf, archery, and badminton; conduct of tournaments; also teaching and appreciation of these sports.
Required.
121. **ELEMENTARY GYMNASTICS.** Winter. (4 q. hrs.)
This is a primary course designed to develop the student's skill in the execution of elementary exercises on the heavy apparatus and in tumbling and trampolining. The student should develop his skill so that he can demonstrate most of the primary exercises. The mechanical principles involved in the execution of each of the exercises is described so that if the student cannot demonstrate all the exercises himself, he can still successfully teach them to others.
Required.
122. **OUTDOOR RECREATIONAL SPORTS.** Fall. (4 q. hrs.)
The rules, technique, and strategy of soccer, touch football, volleyball, and softball; teaching and appreciation of these sports.
Required.
130. **PLAYS, GAMES AND ACTIVITIES OF LOW ORGANIZATION.** See Physical Education (Women)
131. **FIRST AID AND SAFETY EDUCATION.**
See Physical Education (Women).
132. **LEADERSHIP IN RECREATION.**
See Physical Education (Women).
226. **PHYSICAL EDUCATION ACTIVITIES FOR ELEMENTARY, JUNIOR, AND SENIOR HIGH SCHOOLS.** Fall and winter. (4 q. hrs.)
This course includes the study and practice of the physical education activities for the different age levels, including the organization, management, and methods in the leadership of the various activities.
Required.
227. **HEALTH EDUCATION IN ELEMENTARY, JUNIOR, AND**

SENIOR HIGH SCHOOLS. Winter. (4 q. hrs.)

This course includes the principles of teaching health in the elementary, junior, and senior high-schools, the evaluation of various methods and procedures, and the relationship of activities to the health program.

Required. Open to both men and women.

**228. ORGANIZATION AND ADMINISTRATION OF PLAY-
GROUNDS. Spring. (4 q. hrs.)**

Administrative problems associated with the operation of play-grounds; personnel; publicity; financing; legal aspects; program-ning. The operation of seasonal type playgrounds is considered.

Elective. Open to both men and women.

235. THEORY OF PRESCRIBED EXERCISE.

See Physical Education (Women)

Elective.

236. MUSIC IN RELATION TO THE DANCE

See Physical Education (Women)

Elective.

244. KINESIOLOGY. Fall and winter. (4 q. hrs.)

A study is made of the science of body mechanics. The topics that are studied are laws of physics applied to activity, joint movements, motion of muscle groups in producing motion, analysis of fundamental body movements, and the adaptation of gymnastic exercises to posture training and sport activities.

Required in the physical education curriculum for men and women. Prerequisite: Zoology 225.

253 (453). ADVANCED GYMNASTICS. Spring. (4 q. hrs.)

This course is designed for students who have completed Physical Education 121 successfully and who wish to develop a greater degree of proficiency for purposes of teaching this activity to others. A higher degree of skill in executing more advanced exercises is expected of the student. Additional instruction is given in the method of organizing and conducting class demonstrations, exhibitions, and team competition.

Required.

**340. METHODS AND MATERIALS FOR TEACHING PHYSICAL
EDUCATION. Fall. (4 q. hrs.)**

This course includes methods of teaching physical education and also the collection and preparation of materials for students on the different age levels in the elementary, junior, and senior high schools.

Required.

347. BASKETBALL COACHING. Winter. (4 q. hrs.)

This course deals with the professional aspect of basketball

coaching. It involves offensive and defensive styles of play, fundamentals, team play and a study of the rules including the change of rules, and conduct of tournament play.

Required.

348. FOOTBALL COACHING. Fall. (4 q. hrs.)

This course deals with the fundamentals of football, including blocking, tackling, passing, kicking, offensive and defensive line and backfield play, conditioning, and strategy. A study is made of various systems of offense and defense. Included is an examination of equipment and treatment of injuries common to football.

Required.

349. TRACK AND FIELD COACHING. Spring. (4 q. hrs.)

This course deals with track and field events. The technique of running and starting is studied. Form in the following events is studied: pole vault, shot, discus, high and broad jump, javelin, and the hurdles. Organization of different types of meets; study of rules and appreciation of track and field performances.

Required.

350. BASEBALL COACHING. Spring. (4 q. hrs.)

The course includes the techniques of batting, fielding, playing the different positions; the strategy of baseball, the conduct of daily practice, rules and play situations; also methods of teaching baseball and understanding baseball. Major League vs. college baseball is discussed.

• *Required.*

351. CAMPING. Spring. (4 q. hrs.)

This course deals with counselor training for private and public camps. Special emphasis is placed on program planning, special counselor problems, and camp policies. Some work is done on the general organization and administration of camps.

Open to both men and women.

352. ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL CHILD. See Physical Education (Women).

Elective.

451. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION. Fall. (4 q. hrs.)

A review of the historical background of physical education traces the influences that have contributed to the development of the modern philosophy of physical education. The course also considers the relationship of physical education to general education and the principles upon which the program of physical education is based. The standards and objectives of physical education are considered.

Required.

452. PHYSICAL EDUCATION ADMINISTRATION AND SUPERVISION. Winter. (4 q. hrs.)

This course deals with program building and the responsibilities of an administrator. It considers the standard of professional qualifications, the planning of courses of study, the construction, equipment, and upkeep of gymnasiums and playfields, records, interschool relationships, and the intramural program.

Required.

454. FOOTBALL OFFICIATING. Fall. (2 q. hrs.)

The technique of officiating; study of rules; relation of the official to the Illinois High School Athletic Association, the school coaches, and team members. The student officiates in intramural, junior high school, and senior high school games.

455. BASKETBALL OFFICIATING. Winter. (2 q. hrs.)

Topics corresponding to those of Physical Education 454, but related to basketball.

461. THE PREVENTION AND CARE OF ATHLETIC INJURIES.

Spring. (4 q. hrs.)

This course covers athletic injury statistics, primary causes of injury, analysis of preventive measures, and care of injuries in relation to type of tissue involved. Practical experience is offered in taping, padding, and bracing new and recurrent injuries.

May be taken for credit toward the Master's degree.

470. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL ATHLETICS. Winter. (4 q. hrs.)

Topics covered in this course include the educational philosophy of intramurals, administrative personnel and functions, units of participation, scheduling, problems related to the conduct of an intramural program, and records, point systems, and awards.

May be taken for credit toward the Master's degree. Open to both men and women.

475. ADMINISTRATION OF INTERSCHOOL ATHLETICS.

Fall. (4 q. hrs.)

Deals with the organization of interschool athletics with special reference to national, state, and local control. Covers the history of competitive athletics along with special consideration of staff, program, budget, health and safety, facilities, and the other phases of administration.

May be taken for credit toward the Master's degree.

495. COURSE OF STUDY DEVELOPMENT IN PHYSICAL EDUCATION. Omitted 1954-55. (4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

May be taken for credit toward the Master's degree. Open to both men and women.

500. INTRODUCTION TO GRADUATE STUDY IN PHYSICAL EDUCATION. Fall. (4 q. hrs.)

To provide beginning graduate students an opportunity for a critical review of selected studies through guides to the literature in physical education, evaluation of the literature, study of problems confronting the profession, and a study of techniques employed in the historical, philosophical, survey, and experimental methods.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean.

528. THE ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. Spring. (4 q. hrs.)

Study of recent trends in organization and administration of recreation on federal, state, and local levels. Attention is given to legislative provisions, governmental control, financing, budget, personnel, departmental organization, and administrative practices, especially on the local level.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean.

530. ADVANCED ADMINISTRATION OF PHYSICAL EDUCATION IN SCHOOLS. Winter. (4 q. hrs.)

Affords opportunities to solve problems emerging from the administration of physical education programs in the schools. Topics covered include legal responsibilities and liability, construction and maintenance of equipment and facilities, purchase and care of athletic equipment, budget and finance, evaluative procedures, and general administrative control.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean.

PHYSICAL EDUCATION FOR WOMEN

During the first two years of residence it is required that all students attend physical education classes regularly three hours each week. During the third year attendance for two hours a week is required. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed.

Regulation costumes should not be purchased until notified by the instructor.

Required Courses

During freshman orientation each new student is given a general motor ability test. Those who pass the test may begin electing activi-

ties according to their interests with the following limitations. Before completing the nine terms of physical education required the student shall have taken

- 3 courses in sports (some team and some individual)
- 2 courses in dance
- 1 course in fundamentals

No course shall be repeated for credit without permission of the head of the Physical Education Department. If a student does not pass the general motor ability test she signs up for Physical Education 170 in the fall quarter, before electing courses.

170. BASIC PHYSICAL EDUCATION. Fall. (1 q. hr.)

This includes activities to improve the ability of the student to handle his body in relation to the skills required in sports and the dance.

Team Sports

172. BASKETBALL (Beginning). Winter. (1 q. hr.)

272. BASKETBALL (Intermediate). Winter. (1 q. hr.)

Prerequisite: Physical Education 172.

372. BASKETBALL (Advanced). Winter. (1 q. hr.)

Prerequisite: Physical Education 172 and 272.

173. HOCKEY. Fall. (1 q. hr.)

273. ADVANCED HOCKEY. Fall. (1 q. hr.)

Prerequisite: Physical Education 173 or passing test.

174. SOCCER. Fall. (1 q. hr.)

175. SOFTBALL (Beginning). Spring. (1 q. hr.)

275. SOFTBALL (Advanced). Spring. (1 q. hr.)

Prerequisite: Physical Education 175 or passing test.

176. SPEEDBALL. Fall. (1 q. hr.)

177. VOLLEYBALL (Beginning). Winter. (1 q. hr.)

277. VOLLEYBALL (Advanced). Winter. (1 q. hr.)

Prerequisite: Physical Education 177.

Individual Sports

180. ARCHERY. Fall and spring. (1 q. hr.)

181. **BADMINTON (Beginning).** Winter and spring. (1 q. hr.)
281. **BADMINTON (Advanced).** Winter and spring. (1 q. hr.)
Prerequisite: Physical Education 181 or passing test.
182. **BOWLING.** Fall and winter. (1 q. hr.) (\$3.00 laboratory fee without necessity of purchasing a towel ticket.)
183. **GOLF (Beginning).** Fall and spring. (1 q. hr.)
283. **GOLF (Intermediate).** Fall and spring. (1 q. hr.)
Prerequisite: Physical Education 183 or passing test.
383. **GOLF (Advanced).** Fall and spring. (1 q. hr.)
Prerequisite: Physical Education 283 or passing test.
184. **RECREATIONAL GAMES.** Fall and winter. (1 q. hr.)
185. **STUNTS.** Spring. (1 q. hr.)
186. **SWIMMING (Beginning).** Summer. (1 q. hr.)
286. **SWIMMING (Advanced).** Summer. (1 q. hr.)
Prerequisite: Physical Education 186 or passing test.
187. **TENNIS (Beginning).** Fall and spring. (1 q. hr.)
287. **TENNIS (Intermediate).** Fall and spring. (1 q. hr.)
Prerequisite: Physical Education 187 or passing test.
387. **TENNIS (Advanced).** Fall and spring. (1 q. hr.)
Prerequisite: Physical Education 287 or passing test.
194. **TRACK AND FIELD.** Fall. (1 q. hr.)

Dance Courses

190. **FOLK AND SQUARE DANCING.** Winter and spring. (1 q. hr.)
Open to both men and women.
191. **MODERN DANCE (Beginning).** Every quarter. (1 q. hr.)
Open to both men and women.
291. **MODERN DANCE (Intermediate).** Winter and spring. (1 q. hr.)
Prerequisite: Physical Education 191 or passing test. Open to both men and women.
391. **MODERN DANCE (ADV.) (Composition).** Winter. (1 q. hr.)
This course acquaints the students with the elements of dance, its

theatre, and its application, resulting in individual and group compositions, program planning of assemblies and concerts.

Prerequisite: Physical Education 191 and 291, or permission of instructor. Open to both men and women.

192. SOCIAL DANCE (Beginners only). Every quarter. (1 q. hr.)

Open to both men and women.

199. FUNDAMENTALS. Every quarter. (1 q. hr.)

Understandings and principles of good body mechanics as applied to everyday life. Awareness of tensions, balance, use of muscles in good and poor body mechanics, posture work. Techniques for relaxation.

COURSES FOR INDIVIDUAL NEEDS. Every quarter. (1 q. hr.)

Courses in an adapted form of activity are offered for students with individual problems. "Rest" classes for students whose physical condition will not permit any activity.

Required Courses for Elementary Majors

315. OUTDOOR ACTIVE GAMES FOR ELEMENTARY GRADES.

Fall. (1 q. hr.)

Open to both men and women. Does not count for required physical education.

316. RHYTHMS FOR ELEMENTARY GRADES. Winter. (1 q. hr.)

Open to both men and women. Does not count for required physical education.

317. INDOOR RECREATIONAL GAMES FOR ELEMENTARY GRADES. Spring. (1 q. hr.)

Open to both men and women. Does not count for required physical education.

Additional Courses for Physical Education Majors and Minors Only

196. OFFICIATING. Fall. (1 q. hr.)

197. OFFICIATING. Winter. (1 q. hr.)

198. OFFICIATING SPRING SPORTS. Omitted 1954-55. (1 q. hr.)

Professional Courses

130. PLAYS, GAMES AND ACTIVITIES OF LOW ORGANIZATION. Fall. (4 q. hrs.)

Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.

Required. Open to both men and women.

131. FIRST AID AND SAFETY EDUCATION. Winter. (4 q. hrs.)

This course consists of (1) First Aid treatment based upon American Red Cross regulations. Standard certificates are given on the completion of the work. (2) Safety in relation to the school situation and to physical education activities in particular.

Required. Open to both men and women.

132. LEADERSHIP IN RECREATION. Spring. (4 q. hrs.)

Discussion centering around a basic philosophy, qualifications for the leader, functional areas for recreation, and activities and interests that may be utilized; practical experience in party planning and administration, camping, and outdoor cookery.

Required. Open to both men and women.

227. HEALTH EDUCATION IN ELEMENTARY, JUNIOR, AND SENIOR HIGH SCHOOLS. Winter. (4 q. hrs.) See Physical Education (Men)**228. ORGANIZATION AND ADMINISTRATION OF PLAY-GROUNDS. Spring. (4 q. hrs.) See Physical Education (Men)****233. TECHNIQUE OF TEAM SPORTS—SOCCER, SPEEDBALL, AND HOCKEY. Fall. (4 q. hrs.)**

An analysis of the basic techniques of hockey, soccer, speedball. The selection of materials adaptable to the needs of particular groups, and specific methods for presenting them in teaching situations.

Required. Prerequisite: Activity courses in the above sports or permission of the instructor.

234. TECHNIQUE OF TEAM SPORTS—BASKETBALL, VOLLEYBALL, AND SOFTBALL. Winter. (4 q. hrs.)

An analysis of the basic techniques of basketball, volleyball and softball. The selection of materials adaptable to the needs of particular groups, and specific methods for presenting them in teaching situations.

Required. Prerequisite: Activity courses in the above sports or permission of the instructor.

235. THEORY OF PRESCRIBED EXERCISE. Winter. (4 q. hrs.)

A study of preventive, corrective, and modified activities for the physically handicapped child. Conditions considered include crippling diseases such as infantile paralysis, congenital and neurological lesions, heart cases, etc. Theory and practice in giving an orthopedic examination.

Required. Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

236. MUSIC IN RELATION TO THE DANCE. Spring. (4 q. hrs.)

The selection and analysis of music for dance. The study of

rhythmic fundamentals related to movement.

Required. Open to both men and women.

244. KINESIOLOGY. Fall and winter. (4 q. hrs.). See Physical Education (Men)

Body mechanics in relation to sports, dance, and everyday activities.

Required. Prerequisite: Zoology 225.

345. PHYSICAL EDUCATION ACTIVITIES FOR THE RURAL SCHOOL. Omitted 1954-55. (4 q. hrs.)

Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. SPECIAL METHODS OF TEACHING DANCE. Winter. (4 q. hrs)

The principles and methods of dance are adapted to the field of education. Suggested content for various grade levels and special procedure for their attainment.

Required. Prerequisite: One dance course.

351. CAMPING. Winter, spring. (4 q. hrs.) See Physical Education (Men)

352. ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL CHILD. Summer. (4 q. hrs.)

The needs in terms of growth, development, and adjustment of children of the elementary grades. How to choose activities that will contribute most to the satisfaction of these needs.

Required. Open to both men and women. Prerequisite: Physical Education 130 or permission of instructor.

353. TECHNIQUE OF INDIVIDUAL SPORTS—ARCHERY, BADMINTON, TENNIS, AND STUNTS. Summer. (4 q. hrs.)

An analysis of the basic techniques of archery, badminton, tennis, and stunts. The selection of materials adaptable to the needs of particular groups, and specific methods for presenting them in teaching situations.

Required. Prerequisite: Activity courses in the above sports or permission of the instructor.

354. PHYSICAL EDUCATION FOR HIGH SCHOOL GIRLS. Summer. (4 q. hrs.)

This course includes methods of presenting sports and other activities taught in the junior and senior high school physical education program. It is planned for the teacher who is not a specialist in the physical education field. It does not give credit toward a major in physical education.

450. PROBLEMS IN PHYSICAL EDUCATION. Fall. (4 q. hrs.)

Current trends in the field of physical education with special emphasis upon evaluation of performance in activities.

Required.

451. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION.

Winter. (4 q. hrs.)

The study of physical education from ancient to modern times, as it has met the needs of the people of each generation. An interpretation of the objectives of physical education in accordance with the objectives of general education in modern society.

Required.

456. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Spring. (4 q. hrs.)

Designed to develop effective procedures in teaching, organization, and administration of a program of health and physical education and recreation. Each student prepares a curriculum based upon the principles worked out in Physical Education 451 on the age level of her interest—elementary, junior, or senior high school.

Required. Prerequisite: Physical Education 451.

458. OBJECTIVES OF PHYSICAL EDUCATION AND ADMINISTRATION OF THE PROGRAM. Spring. (4 q. hrs.)

This is a condensation of Physical Education 451 and 456 and is planned for the physical education minor. No credit toward a major in physical education.

PHYSICAL SCIENCE, GENERAL**100. PHYSICAL SCIENCE. Fall and winter. (4 q. hrs.)**

Basic concepts of physical science are presented through a rather thorough study of topics selected from physics and astronomy.

Fee \$1.00.

101. PHYSICAL SCIENCE. Fall. (4 q. hrs.)

Basic concepts and principles of chemistry having particular application in the field of elementary education are presented. A constant effort is made to correlate the study with actual science teaching experiences in the Elementary Training School.

Either Physical Science 100 or 101 may be taken independently or both may be taken simultaneously. Fee \$1.00.

102. PHYSICAL SCIENCE. Spring. (4 q. hrs.)

A continuation of 100 and 101. A study of electricity, atomic structure, radioactivity, isotopes, the chemistry of foods, and other selected topics.

Prerequisite: Physical Science 100, 101. Fee \$1.00.

These three courses are required in the elementary curriculum and fulfill the laboratory science requirement in other curricula. They are not counted toward a major or minor in chemistry or physics.

PHYSICS

Note: All courses except where otherwise indicated in the course description have two lecture periods and two laboratory periods a week.

120, 121, 122. A ONE YEAR PHYSICS COURSE FOR MUSIC

STUDENTS. Fall, winter, spring. (4 q. hrs. for each course.)

Physics 120, astronomy, mechanics, and heat; Physics 121, sound and acoustics as applied to music; Physics 122, light, electricity, and modern physics.

Required in the music curriculum. Fee \$1.00 for each course.

130, 131, 132. FIRST YEAR OF COLLEGE PHYSICS. Fall, winter, spring. (4 q. hrs. for each course.)

Physics 130, mechanics; 131, heat, sound, and light; 132, magnetism and electricity and modern physics.

Required in the physics curriculum. Acceptable as a year of laboratory science in any curriculum. Preferably these courses should be taken in the order listed but may be taken in any order. Fee \$1.00 for each course.

235. MECHANICS AND HEAT. Spring. (4 q. hrs.)

Dynamics and statics; energy and its transformations; elasticity; temperature and thermometry; calorimetry; transfer of heat; thermal properties of gases. One lecture and three laboratory periods a week.

Prerequisite: First year college physics. Fee \$1.00

236. LIGHT. Fall. (4 q. hrs.)

Photometry and illumination problems; prisms and lenses and their uses in optical instruments; interference phenomena; spectra and color; polarized light; ultraviolet and infrared spectra.

Prerequisite: First year college physics. Fee \$1.00

238. SOUND. Omitted 1954-55. (4 q. hrs.)

Fundamentals of wave motion as related to sound and vibration; propagation, reflection, refraction, interference, and diffraction of sound; musical instruments; acoustics. Some applications of sound theory.

Prerequisite: First year college physics. Fee \$1.00

239 (335). MECHANICS. Winter. (4 q. hrs.)

Vectors; particle dynamics including energy and momentum prin-

principles; plane statics; elasticity.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. MECHANICS. Spring. (4 q. hrs.)

Simple harmonic motion; damped motion; plane motion of a rigid body; virtual work; caterary; vector operators; general motion of a rigid body; central field motion, generalized coordinates.

Prerequisite: Physics 239. Four hours a week.

322. HOUSEHOLD PHYSICS. Omitted 1954-55. (4 q. hrs.)

An elective for undergraduate home economics students. Principles of heat, mechanics, electricity, and light as applied in the home.

Fee \$1.00.

340. METHODS OF TEACHING PHYSICS. Winter. (4 q. hrs.)

Required in the physics curriculum. Four hours a week.

341 (237). ELECTRICITY AND MAGNETISM. Fall. (4 q. hrs.)

Coulomb's Law. vectors; electric field strength; potential; Gauss' Law; capacity; dielectrics; solutions of electrostatic problems; electrostatic energy; DC circuits and instruments.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

342. ELECTRICITY AND MAGNETISM. Winter. (4 q. hrs.)

Magnetic field due to steady currents; inductance; changing electric currents; magnetic materials; electrical equipment; L, R and C circuits; Maxwell's Equations and radiation.

Prerequisite: Physics 341. Four hours a week.

450. ELEMENTS OF ELECTRONICS. Omitted 1954-55. (4 q. hrs.)

Principles of vacuum tubes; types of tubes and their special uses; power supply; amplifier circuits; oscillators; tuned circuits; tube control circuits and their uses. This course is intended to provide the background for understanding the principles and uses of electronic equipment and also as a basis for Physics 451.

Prerequisite: First year college physics. Fee \$1.00. May be taken for credit toward the Master's degree.

451. RADIO. Omitted 1954-55. (4 q. hrs.)

Principles of radio communication; typical radio receiver circuits; properties and functions of major components of radio sets; characteristics of radio waves and their application in A.M., F.M. and television amplifiers, and public address systems; properties and uses of micro-waves.

Prerequisite: Physics 450. Fee \$1.00. May be taken for credit toward the Master's degree.

452. ELECTRONIC MEASUREMENTS. Omitted 1954-55.**(4 q. hours.)**

The use of the oscilloscope in electronic measurements and testing; testing of audio and R.F. amplifiers; capacitance and inductance measurements; "Q" and "Z" measurements; vacuum tube voltmeters and multimeters; theory and construction of special electronic circuits, such as the multivibrator, sawtooth generator and counters.

Prerequisite: Physics 450. Fee \$1.00. May be taken for credit toward the Master's degree.

460 (350). ELECTRICAL MEASUREMENTS. Spring. (4 q. hrs.)

DC and AC circuit analysis; current and ballistic galvanometers; bridge and potentiometer circuits; measurement of resistance, inductance, capacitance, and electromotive force; thermo-electromotive force; calibration of electrical instruments; magnetic measurements. One lecture and three laboratory periods a week.

Prerequisite: First year college physics. Fee \$1.00. May be taken for credit toward the Master's degree.

465 (339). HEAT AND THERMODYNAMICS. Winter. (4 q. hrs.)

Thermometry, thermodynamic laws; changes of phase; gas laws; mechanical relations and heat engines; adiabatic transformations; entropy, kinetic theory.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week. May be taken for credit toward the Master's degree.

470. ELECTRON PHYSICS. Fall. (4 q. hrs.)

Ionization; Einstein energy-radiation equation; photo-electricity; spectra; X-rays; X-ray equipment; use of the electrometer and electroscope; Millikan oil-drop experiment; effect of electric field.

Prerequisite: First year college physics and Mathematics 235, 236. Fee \$1.00. May be taken for credit toward the Master's degree.

471. NUCLEAR PHYSICS. Winter. (4 q. hrs.)

Isotopes and the mass spectrograph; radioactivity; elementary nuclear particles; cloud chamber; Geiger counter; e/m and effect of magnetic field.

Prerequisite: First year college physics and Mathematics 235, 236. Fee \$1.00. May be taken for credit toward the Master's degree.

472. PARTICLE ACCELERATORS AND NUCLEAR TRANSFORMATIONS. Spring. (4 q. hrs.)

Cyclotron; betatron; synchrotron; high voltage accelerators; electron microscope; cosmic rays; artificial radioactivity and disintegrations; vacuum technique.

Prerequisite: Physics 470 and 471. Fee \$1.00. May be taken for credit toward the Master's degree.

480, 481, 482. SPECIAL PHYSICS PROBLEMS. Omitted 1954-55.**(4 q. hrs. for each course.)**

Selected problems based on the student's previous training and interests. Admission and assignment of problems by arrangement. Laboratory, reading, and conference.

Prerequisite: Permission of instructor. Fee \$1.00 for each course. May be taken for credit toward the Master's degree.

534. THEORETICAL MECHANICS. Omitted 1954-55. (4 q. hrs.)

Vectors; laws of motion; particle statics and dynamics; central field motion; energy and momentum principles for a particle and for systems of particles; mechanics of a rigid body.

Prerequisite: First year college physics and Mathematics 235 and 236. Four hours a week. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

535. THEORETICAL MECHANICS. Omitted 1954-55. (4 q. hrs.)

Constrained motion; oscillatory motion; deformable bodies; fluid mechanics; generalized coordinates; Lagrange's equations; Hamilton's canonical equations.

Prerequisite: Physics 534. Four hours a week. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

560. EQUIPMENT PROBLEMS AND INSTRUCTIONAL TECHNIQUES IN THE TEACHING OF PHYSICS. Omitted 1954-55.**(4 q. hrs.)**

Equipment repair, maintenance and storage. A working acquaintance with various pieces of apparatus used in classroom and laboratory instruction in the high school. Opportunity for construction of improvised equipment. Techniques of effective instruction and demonstration.

Open only to graduates. Fee \$1.00.

580. CURRENT LITERATURE IN PHYSICS. Omitted 1954-55.**(4 q. hrs.)**

Reading, conference, oral reports.

Prerequisite: Two years' work in physics. Open only to graduates.

PHYSIOLOGY**Taught in Department of Zoology****345. PHYSIOLOGY. Every quarter. (4 q. hrs.)**

A study of the basic physiology principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration, and digestion.

Required in the physical education curriculum. Prerequisite: Zoology 120 and 225.

346. ADVANCED PHYSIOLOGY. Winter. (4 q. hrs.)

A continuation of the foregoing course in which studies are made of metabolism, excretion, organs of internal secretion (endocrine glands), special sense organs, and reproductive organs.

Prerequisite: Physiology 345, or permission of head of the Zoology department.

POLITICAL SCIENCE

(See Social Science 261, 262, 265, 464, 466, 467)

PSYCHOLOGY

(See Education and Psychology)

SOCIAL SCIENCE

146. A SURVEY OF WORLD CIVILIZATION TO 1500 A.D.

Fall and winter. (4 q. hrs.)

The dawn of history in Egypt, the Fertile Crescent, India and China; Greek and Roman civilization; the Byzantine and Mohammedan world; India and China in the Middle Ages; Medieval Christian Europe.

Required in the social science, Latin, elementary, and art curricula.

147. A SURVEY OF WORLD CIVILIZATION, 1500 to 1900.

Winter and spring. (4 q. hrs.)

The rise of national states and modern capitalism; Renaissance and Reformation; royal absolutism and revolution; origins of modern technology; colonization, imperialism and new contacts with Asia.

Required in the social science and elementary curricula.

148. A SURVEY OF WORLD CIVILIZATION, 1900 TO THE PRESENT. Fall and spring. (4 q. hrs.)

Origins of World War I; Communism, Fascism, Nazism; World War II; the challenges of the present day.

Required in the social science and elementary curricula.

233. HISTORY OF THE UNITED STATES TO 1840.

Every quarter. (4 q. hrs.)

Survey of colonial history. The independence movement. The framing and adoption of the Constitution. The growth of American nationality. Western development and Jacksonian democracy.

Required in the two-year general, social science, and elementary curricula. At least one quarter required of all candidates for graduation.

234. HISTORY OF THE UNITED STATES, 1841 to 1898.

Every quarter. (4 q. hrs.)

Manifest Destiny and the slavery controversy. The Civil War and Reconstruction. The new industrial society and the agrarian movement.

Required in the two-year general, social science, and elementary curricula. At least one quarter required of all candidates for graduation.

235. HISTORY OF THE UNITED STATES SINCE 1898.

Every quarter. (4 q. hrs.)

The War with Spain. The United States as a World Power. The growth of industry and the progressive movement. The First World War. Postwar problems. Depression and the New Deal. The Second World War. Postwar problems, foreign and domestic.

Required in the two-year general, social science, and elementary curricula. At least one quarter required of all candidates for graduation.

254. ELEMENTS OF ECONOMICS. Fall and winter. (4 q. hrs.)

The nature of economics; factors in production; agricultural, industrial, and business organization of production; capitalistic combinations; labor organization and policies; industrial conflict and peace; the nature of money; credit.

Freshmen may not take this course.

255. ELEMENTS OF ECONOMICS, Continued. Winter. (4 q. hrs.)

International trade and exchange; transportation; organized markets; value and price; wages, interest, rent, profits; price changes and the business cycle.

Freshmen may not take this course.

256. ELEMENTS OF ECONOMICS, Continued. Fall and spring.

(4 q. hrs.)

Consumer problems, public expenditures, taxes and debt; capitalism and its rivals.

Freshmen may not take this course.

261. THE ELEMENTS OF DEMOCRATIC GOVERNMENT. Fall.

(4 q. hrs.)

A consideration of the bases of democratic government. An examination of the different forms which democratic government has taken, with particular attention to the United States, Great Britain, and Canada, and a consideration of the reasons for these differences. Democratic government and totalitarian government compared. A

study of those forces which strengthen and those which weaken democratic government.

Required in the social science curriculum.

262. STATE AND LOCAL GOVERNMENT. Winter. (4 q. hrs.)

A study of the structure and functioning of the American state and its political subdivisions, with particular attention paid to the state and local government of Illinois.

Required in the social science curriculum.

265. THE NATIONAL GOVERNMENT. Spring. (4 q. hrs.)

A study of the structure and functions of the national government of the United States. The Constitution of the United States is examined in detail.

Required in the social science curriculum.

270. THE COMMUNITY AND SOCIETY. Fall. (4 q. hrs.)

The contemporary community as the unit of social study, the bases of community life, types of communities, of activities, of organization, of government, and of maladjustments; community planning; relations of the community to society as a whole.

Required in the social science curriculum.

271. PRINCIPLES OF SOCIOLOGY. Winter. (4 q. hrs.)

Social relations and institutions, society as communication, competitive co-operation and functional patterns, spatial structure of society, social change, social disorganization, the person in relation to culture, and the social organization, social control, and social reform.

Required in the social science curriculum.

272. SOCIAL PROBLEMS AND SOCIAL TRENDS. Spring.

(4 q. hrs.)

The nature of social problems; the problem of adjustment to external nature; population problems; problem of the distribution of wealth and income; health and physical welfare; control and care of defectives; the family and child welfare; crime; the meaning and agencies of social control.

Required in the social science curriculum.

281F (54) or 381F (54) or 481F (54) or 581F (54). FIELD STUDY OF THE REGIONAL HISTORY OF NORTH AMERICA.

Summer. (4 q. hrs.)

Field study in the Eastern Great Lakes Region of the United States and the Canadian Provinces of Ontario and Quebec, August 6-24, 1954. Points of interest include: Ontario Peninsula, agricultural and industrial heart of eastern Canada; Thames River area, scene of American victory in 1813; Old Fort York in Toronto; Fort Wellington at Prescott; Montreal, metropolis of Canada; Mont-Royal, a mountain within a city; mining area of eastern Quebec; agricul-

tural region of French Canada; Fort Chambly and the historic Richelieu River Valley; Quebec, cultural center of French Canada; Isle of Orleans; Plains of Abraham; bird sanctuary at Port Joli; lower St. Lawrence Valley; Saguenay River industrial area; Laurentian Mountains; Laurentide Provincial Park; Falls of Montmorency; Ottawa, capital city of the Dominion of Canada; Parliament Hill, seat of the Canadian Government; Ottawa River Valley, the fur trader's canoe route to the Upper Great Lakes; the "Frontier" where modern civilization tames the wilderness of forest and lakes; the lake plains of Ontario.

Undergraduate credit earned in this course may be used as an elective in any curriculum. 481F (54) and 581F (54) may be taken for credit toward the Master's degree. Credit may be offered toward Group III requirements and in some instances advisers may approve the work for Group II credit.

330. AN INTRODUCTION TO ECONOMICS. Spring. (4 q. hrs.)

This one-quarter course presents the basic ideas of economics for industrial arts and home economics majors. This course may not be included in any one year sequence in the field of economics.

Required of industrial arts and home economics majors.

340. METHODS AND MATERIALS IN THE SOCIAL STUDIES IN THE SECONDARY SCHOOL. Spring. (4 q. hrs.)

To prepare students for work in the social studies classrooms. The course is divided into three parts: aims or objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Attention is centered on the analysis, evaluation, and application of methods. Techniques for appraising and selecting textbooks and other teaching aids receive attention.

Required in the social science curriculum.

343. HISTORY OF ENGLAND TO 1603. Fall. (4 q. hrs.)

Early settlement of the British Isles; Roman occupation, Anglo-Saxon civilization; the early Church; the Norman Conquest and relations with France; the development of the common law and Parliament; the development of the Church and the separation of the Anglican Church; English art and literature.

Required in the English curriculum.

344. HISTORY OF ENGLAND AND THE BRITISH EMPIRE, 1603 TO 1830. Winter. (4 q. hrs.)

Discovery and colonial expansion and the founding of the British Empire; the constitutional struggles and the supremacy of Parliament; the commercial, agricultural, and industrial revolutions; the literature and science of the period; the long struggle with France for colonial supremacy.

Required in the English curriculum.

345. HISTORY OF THE BRITISH EMPIRE SINCE 1830.**Spring. (4 q. hrs.)**

The reformation of Parliament; the development of industry and commerce and trade rivalry; development of scientific thought; the first World War and its consequence; the Empire's greatest test in the second World War.

Required in the English curriculum.

457. LABOR ECONOMICS. Fall. (4 q. hrs.)

An intensive study of labor as a factor in the productive system; the background of the labor movement; the technique and objectives of labor organization; the fundamental issues in labor-management disputes; labor legislation.

Recommended as an elective for business education and social science majors. May be taken for credit toward the Master's degree.

458. MONEY AND BANKING. Spring. (4 q. hrs.)

An intensive study of our money and banking systems; their importance to the public welfare; government monetary and banking policy; international exchange problems.

Recommended as an elective for business education and social science majors. May be taken for credit toward the Master's degree.

459. PUBLIC FINANCE. Winter. (4 q. hrs.)

An intensive study of taxation, public spending, public debt, and their importance to the general welfare.

Recommended as an elective for business education and social science majors. May be taken for credit toward the Master's degree.

464. LOCAL GOVERNMENT. Omitted 1954-55. (4 q. hrs.)

An intensive study of the structure and functions of the government of the political subdivisions of the State. About one-half of the course is devoted to city government, and one-half to the government of the county, township, and other local units.

May be taken for credit toward the Master's degree.

466. POLITICAL PARTIES AND POLITICS. Fall. (4 q. hrs.)

A study of the development, organization, functions, and significance of the political parties in the United States.

May be taken for credit toward the Master's degree.

467. FOREIGN RELATIONS OF THE UNITED STATES.**Winter. (4 q. hrs.)**

A study of the place of the United States in the world community. The conduct of diplomatic relations. The development of the machinery and spirit of international co-operation.

May be taken for credit toward the Master's degree.

473. MARRIAGE AND THE FAMILY. Fall. (4 q. hrs.)

The historical background of the modern family. The impact of culture and social change on marriage and the family. Personality factors involved in marriage. Family disorganization and reorganization.

May be taken for credit toward the Master's degree.

474. THE SOCIAL PROBLEMS OF MINORITY GROUPS.

Winter. (4 q. hrs.)

A survey of the minority groups in the United States; their history, relationship to other groups, and their contributions to American culture. The relationship of the schools to minority groups and to the establishment of better human relations. This course is designed to aid the social studies teacher and the school administrator.

May be taken for credit toward the Master's degree.

475. CRIME AND JUVENILE DELINQUENCY. Spring. (4 q. hrs.)

A sociological study of the problems of crime and delinquency. Community and school programs for preventing delinquency and crime are examined. Local community resources are used to bring out the realities of the problems. Of value to the social studies teacher and the school administrator.

May be taken for credit toward the Master's degree.

481. LATIN-AMERICAN HISTORY TO 1830. Fall. (4 q. hrs.)

A survey of the period of exploration and settlement of the Spanish and Portuguese empires in the western world. Colonial development. The era of revolution and independence. The relationships between the Latin-American colonies and nations with the English colonies and the United States.

May be taken for credit toward the Master's degree.

482. LATIN-AMERICAN HISTORY SINCE 1830. Winter. (4 q. hrs.)

Political, economic, and cultural developments south of the Rio Grande. The relationships between the Latin-American republics and the United States. Emphasis on the Monroe Doctrine, the Pan-American Union, and the "Good Neighbor" policy.

May be taken for credit toward the Master's degree.

483. HISTORY OF CANADA. Spring. (4 q. hrs.)

The settlement of French Canada. French colonial development. The conquest of French Canada by the British. The change from colonial Canada to the Dominion. Political, economic and cultural growth of Canada as a part of the British Empire. The relationships between Canada and the United States. Emphasis on co-operation between the two countries.

May be taken for credit toward the Master's degree.

485. EUROPE IN THE EIGHTEENTH CENTURY.**Omitted 1954-55. (4 q. hrs.)**

The struggle to maintain the balance of power; the contest for empire; the development of responsible government in England; the origins of industrial and agricultural revolution.

May be taken for credit toward the Master's degree.

486. THE WORLD IN THE TWENTIETH CENTURY. Spring.**(4 q. hrs.)**

Origins of World War I; Versailles and its aftermath; the emergence of new small nations and the spread of nationalism in Asia; the rise of Communism, Fascism and Nazism; origins of World War II; the United Nations and new power problems; the war in Korea.

May be taken for credit toward the Master's degree.

491. THE STUDY AND TEACHING OF LOCAL HISTORY.**Omitted 1954-55. (4 q. hrs.)**

This course emphasizes the locations and nature of local historical records and remains and their use in teaching history in the public schools. A seminar type course, lectures, student reports, field work in Charleston and vicinity.

Prerequisites: Social Science 233, 234, 235, or experience in teaching United States History in the junior high school or senior high school. May be taken for credit toward the Master's degree.

492. EXPANSION AND DISUNION, 1820 TO 1861. Fall.**(4 q. hrs.)**

An intensive study of this period of United States history. Major topics covered are Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

Prerequisite: Social Science 233, 234. May be taken for credit toward the Master's degree.

493. THE LITERATURE OF THE HISTORY OF WESTERN CIVILIZATION. Winter. (4 q. hrs.)

This course is designed to give a more nearly complete understanding of the nature of historical materials and methods. It consists of a study of the great historical writings against the backgrounds of the times and places in which they were written.

Prerequisite: Survey courses in world or European history at the college level. May be taken for credit toward the Master's degree.

494. THE LITERATURE OF AMERICAN HISTORY.**Omitted 1954-55. (4 q. hrs.)**

A lecture and reading course designed to give the advanced student new understandings and additional skills in the study of American history. A carefully directed reading program for each student

provides maximum opportunities for each within his own limits of performance.

Primarily for graduates. Open to seniors with permission of instructor and the Dean.

550. ABRAHAM LINCOLN. Omitted 1954-55. (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Prerequisite: Social Science 234 or its equivalent. Open only to graduates. May be offered toward the Group III requirements.

SOCIOLOGY

(See Social Science 270, 271, 272, 473, 474, 475)

SPEECH

130. FUNDAMENTALS OF SPEECH. Fall. (4 q. hrs.)

Content, language, voice, and action in student projects, including introductions, social conversations, telephone conversations, interviews, conferences, discussions, and extempore dramatics.

Required in the speech curriculum.

131. SPEAKING IN PUBLIC. Winter. (4 q. hrs.)

A consideration of the personality, subject matter, and rhetorical factors essential in composing and delivering speeches. Practical application of these principles in student speeches.

Required in the speech curriculum.

132. VOICE AND PHONETICS. Spring. (4 q. hrs.)

Instruction and practice in breathing, relaxation, tone production, rhythm, inflection, and enunciation. Study of the speech mechanism. Analysis of vowels and consonants: their physical properties, means of production, and dependence on hearing.

Required in the speech curriculum.

231 (331). DISCUSSION AND DEBATE. Winter. (4 q. hrs.)

Principles and participation in class discussions and debates on subjects of current interest.

Required in the speech curriculum.

244 (444). PLAY PRODUCTION (ACTING). Fall. (4 q. hrs.)

A study of the methods of learning and teaching techniques for the actor, including definite exercises and a practical approach to the art of acting.

246. SPEECH COMPOSITION. Spring. (4 q. hrs.)

A course for students who have had basic training in public speaking. Emphasis is placed on the refinement of original speeches

through studies, discussions, and presentations.

Prerequisite: Speech 131.

250. RADIO SPEAKING. Fall (4 q. hrs.)

Consideration of the special problems involved in adapting the principles of effective speaking to the radio, in the composition and delivery of talks, announcements, round-table discussions, features, newscasts, and interviews. Practice afforded in general production and speaking techniques. Voice and program recordings.

Prerequisite: Speech 130, 131, 132, or permission of the instructor.

251. RADIO WRITING. Spring. (4 q. hrs.)

Studies of the problems involved in writing various types of radio scripts. Students are required to present original scripts and work on the adaption of literature to radio. Recording of final productions is practiced.

Prerequisite: Speech 250.

335. ORAL INTERPRETATION. Fall. (4 q. hrs.)

Interpretation and oral reading of poetry and prose; includes composition analysis, kinds and levels of meaning, directness, communicativeness, phrasing, inflection, emphasis, climax, melody, rhythm, meter, and bodily responsiveness.

337 (135) CHORIC SPEECH. Omitted 1954-55. (4 q. hrs.)

Choric recitation of verse and prose. Attention is given to the social and artistic implications. The class engages in group speaking.

338. ADVANCED DISCUSSION. Omitted 1954-55. (4 q. hrs.)

Advanced study of the principles and methods of group and public discussion. Application of these principles to current topics.

Prerequisite: Speech 231.

339. ADVANCED ARGUMENTATION AND DEBATE. Fall.

(4 q. hrs.)

Advanced study of the logical and psychological factors in synthesizing argument. Practice in organizing and presenting argument and in evaluating argumentative effectiveness of others.

Prerequisite: Speech 231.

345. PUBLIC SPEAKING. Every quarter. (4 q. hrs.)

This course gives actual practice in speaking before a group. The problems of choosing subjects, gathering material, and composing speeches, as well as delivering them effectively, are studied.

Required in all curricula except speech.

352. RADIO PRODUCTION DIRECTING. Winter. (4 q. hrs.)

Problems of casting, selecting sound effects and music, interpre-

tations of script, placing of microphones, timing and engineering of show, and making of transcriptions. Students direct productions.

Prerequisite: Speech 250.

431 (131). CREATIVE DRAMATICS. Spring. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

433. SPEECH PATHOLOGY. Fall. (4 q. hrs.)

This course is prerequisite to all other courses dealing with disorders of speech. A survey is made of the pathology and etiology of articulatory, voice, hearing, stuttering, and organically based speech disorders. A brief description of the treatment of these disorders is presented and the individual psychology of the speech handicapped person is discussed.

Required in the speech curriculum.

445. PLAY PRODUCTION (DIRECTING). Spring. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing, beginning with the script and including designing, costuming, make-up, and lighting.

Required in the speech curriculum.

446. THEATER ORGANIZATION. Winter. (4 q. hrs.)

A general survey of the field of dramatics. The study includes all aspects of professional theater as well as amateur and semi-professional theater.

451 (434). INTRODUCTION TO CLINICAL PRACTICE IN SPEECH CORRECTION. Winter. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders. The students are responsible for the weekly diagnostic outpatient clinic wherein supervised experience in parental interview, case examination, and diagnoses is available. Additional time is spent in observing therapy in the clinic.

Prerequisite: Speech 433. May be counted toward the Master's degree.

452 (435). VOICE AND ARTICULATION DISORDERS. Spring. (4 q. hrs.)

Emphasis on cause and treatment of voice and articulation disorders. The course includes detailed analysis and treatment of stuttering. Students are given supervised clinical training with these cases.

Prerequisite: Speech 433, 451. May be counted toward the Master's degree.

455. AUDIOMETRY AND HEARING AIDS. Fall. (4 q. hrs.)

Training is given in both pure tone and speech audiometry. Tech-

niques for hearing aid fitting are presented. The students conduct hearing surveys and do individual hearing tests. The hearing mechanism is studied in detail.

Prerequisite: Speech 433, 451, 452. May be taken for credit toward the Master's degree.

456 (248). AUDIOLOGY. Winter. (4 q. hrs.)

Deals with the speech and psychological problems of the deaf and hard of hearing. Techniques in lip reading and speech rehabilitation for these cases are presented. Students are given an opportunity for supervised clinical practice with hearing cases.

Prerequisite: Speech 433, 451, 452, 455; Education 344. May be taken for credit toward the Master's degree.

457. ADVANCED CLINICAL PRACTICE. Every quarter.

(4 q. hrs.)

This course gives actual experience in organizing and conducting speech and hearing surveys. Students are given an opportunity to do supervised work with a variety of speech defective cases. Individual projects are worked on a seminar basis.

Prerequisite: Speech 433, 451, 452, 455, 456; Education 344, Psychology 451, 455. May be taken for credit toward the Master's degree.

458. ORGANIC DISORDERS OF SPEECH. Spring. (4 q. hrs.)

This course emphasizes the anatomical aspects as well as therapeutic approach to organic disorders of speech accompanying cleft palate, cerebral palsy, and aphasia. Students are given supervised clinical training with these cases.

Prerequisite: Speech 433, 451, 452, 455, 456; Education 344. May be taken for credit toward the Master's degree.

470. PSYCHOLOGY OF SPEECH. Winter. (4 q. hrs.)

Psychological principles involved in the acquisition and improvement of speech; the function of speech in the development of an integrated personality; the role of speech in social behavior.

May be taken for credit toward the Master's degree.

471. HISTORY OF PUBLIC ADDRESS. Spring. (4 q. hrs.)

The development of public address is traced from ancient to modern times. Leading speakers, speeches, and historical movements are discussed in terms of their interrelationships.

May be taken for credit toward the Master's degree.

560. DELIBERATION OF HUMAN PROBLEMS. Fall. (4 q. hrs.)

Investigation, discussion, and debate as modes of procedure in human affairs. Principles and procedures applied to actual problems. Includes an evaluation of current practices dealing with contemporary problems.

Open only to graduates.

561. PROBLEMS OF TEACHING SPEECH. Winter. (4 q. hrs.)

Consideration of the actual and potential problems in the teaching of speech. Methods of adapting the speech program to schools of different sizes. Individual training, special classes, integration with other subject matter fields, and the extra-class program.

Open only to graduates.

562. SEMINAR IN RHETORIC. Spring. (4 q. hrs.)

Analysis of various classical, medieval, and modern theories of address with respect to the place of public address in the society of the time; the place of rhetoric in education and the emergence of present-day theories of public speaking.

Open only to graduates.

ZOOLOGY

Zoology 120, 121, 122 is planned as a general cultural course as well as an introduction to further study of the biological sciences. It satisfies the core curriculum requirement of a year of a laboratory science.

A sequence of courses is planned to give detailed knowledge of the field of zoology for those who desire to make it their major or minor interest or who may wish to go on to graduate work. Some courses are designed to give special requirements or as service courses to other fields.

120. GENERAL ZOOLOGY. Fall and winter. (4 q. hrs.)

A consideration of fundamental biological principles based upon animal material. This course forms the first quarter of the first year course in zoology. The structure and physiology of cells, tissues, and organs are considered.

Fee \$1.00.

121. GENERAL ZOOLOGY. Winter and spring. (4 q. hrs.)

This course is concerned with the various types of animal reproduction, with genetics, eugenics, and with the fundamentals of embryology.

Prerequisite: Zoology 120 or equivalent. Fee \$1.00.

122. GENERAL ZOOLOGY. Spring. (4 q. hrs.)

A study of the structure and habits of the animals of the various divisions of the animal kingdom. Their ecology, geographic distribution, economic importance and evolution are considered.

Prerequisite: Zoology 120, 121. Fee \$1.00.

124. ELEMENTARY ORNITHOLOGY. Omitted 1954-55. (4 q. hrs.)

A course in bird study. The aim of the course is to familiarize the student with birds in the field. Recognition of birds, a study of their

nesting habits, food habits, and economic importance make up the subject matter. Much of the work is done in the field.

Fee \$1.00.

125. ELEMENTARY ENTOMOLOGY. Summer. (4 q. hrs.)

A study of the insects which are common in the local environment. Means of recognition, life-history studies, and control measures are stressed. The insects of the fields, woods, and waters are studied as well as those found on the various farm crops. Much of the work is done in the field.

Fee \$1.00.

225. ANATOMY. Fall. (4 q. hrs.)

A study of osteology from human bones, followed by brief work in arthrology and the dissection of a beef knee joint. The rest of the course is given to dissection of the cat, with some attention to system, blood vessels, nerves, glands, but with primary emphasis on muscles; their names, origin, insertion, action, with frequent comparison with human muscles and with the specific object of understanding general body movement.

Required in the speech curriculum, physical education curriculum for men and women, and the pre-nursing and basic dietetics curricula. Prerequisite: None: however, Zoology 120 and 121 and sophomore standing are desirable. Fee \$1.00.

226. ECONOMIC ENTOMOLOGY. Omitted 1954-55. (4 q. hrs.)

A basic study of the structure, life histories and methods of control, followed by specific studies of the common insect pests found in Illinois.

Required in the basic agriculture, horticulture, and floriculture curricula. Fee \$1.00.

227. PARASITOLOGY. Fall. (4 q. hrs.)

The fundamentals of the study of animal parasites, considering means of identification, life histories, and methods of control of the more common parasites.

Recommended as an elective in the pre-medical laboratory technician curriculum. Prerequisite: Zoology 120, 121, 122. Fee \$1.00.

230, 231, 232. VERTEBRATE ZOOLOGY. 230, Fall; 231, winter; 232, spring. (4 q. hrs. for each course.)

A study of the anatomy, classification, and habits of various classes of vertebrates. Zoology 230 deals with fishes; Zoology 231, with amphibians and reptiles; Zoology 232, with birds and mammals.

Required in the zoology and pre-medical curricula; recommended for zoology minors. Prerequisite: Zoology 120, 121. Fee \$1.00 for each course.

236. GENETICS. Fall. (4 q. hrs.)

A study of the basic laws of heredity and variation; the Men-

delian laws of heredity applied to living organisms including man. Laboratory experiments demonstrating the mechanisms of heredity and of environmental modifications. Also the application of genetic principles in the production and use of hybrids in modern agriculture.

Prerequisite: One year of zoology or botany. Fee \$1.00.

340. METHODS OF TEACHING ZOOLOGY. Winter. (4 q. hrs.)

This course includes methods of teaching zoology and also the collection and preparation of material for demonstration and laboratory in high-school zoology.

Required in the zoology curriculum.

**343, 344, 345. ENTOMOLOGY. 343, Fall; 344, winter; 345, spring.
(4 q. hrs. for each course.)**

A study of insects. Deals with the classification and ecology of this large and important class. Methods of collection and preparation of specimens are studied.

Required in the zoology curriculum. May be used as the second year of a minor. Prerequisite: Zoology 120, 121, 122. Fee \$1.00 for each course.

346. EMBRYOLOGY. Winter. (4 q. hrs.)

A study of the development of vertebrate animals, including such subjects as formation of germ cells, maturation, fertilization, growth and cellular differentiation, and heredity. Studies of the frog, chick and pig are included in the laboratory assignments. Lectures include a study of human embryology. Designed especially for students in pre-medical and pre-nursing curricula and majors in zoology.

Prerequisite: One year of zoology and consent of the head of the department. Fee \$1.00.

446. MICROTECHNIC. Fall. (4 q. hrs.)

Methods and practice in the preparation of microscopic slides of animal tissues. Some histological studies are included.

Prerequisite: Two years of zoology and permission of the instructor. May be taken for credit toward the Master's degree. Fee \$1.00.

447. ANIMAL BEHAVIOR. Omitted 1954-55. (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: Two years of zoology and permission of the instructor.

448. ANIMAL ECOLOGY. Spring. (4 q. hrs.)

A study of various animal associations and the effects of environmental conditions.

Prerequisite: Two years of zoology and permission of the instructor.

449. SPECIAL PROBLEMS IN ZOOLOGY. Any quarter. (4 q. hrs.)

An advanced course for those interested in studying some special problems in the zoology field. The work is done independently with advice of the instructor.

Prerequisite: Three years of zoology and permission of the instructor. Fee \$1.00.

450. ANIMAL HISTOLOGY. Spring. (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Elective. Prerequisite: Zoology 120, 121, 122, 446. Fee \$1.00.

551. FIELD ZOOLOGY. Omitted 1954-55. (4 q. hrs.)

A course in local fauna designed to acquaint the student with the animal life of this area. Methods of collecting, preserving, and identifying animals are stressed. The course includes a study of the habits and life histories of selected forms.

Prerequisite: One year of zoology or equivalent. Primarily for graduates. Open to seniors with permission of the instructor and the Dean. Fee \$1.00.

550. ORNITHOLOGY. Summer. (4 q. hrs.)

This course includes the study of structure, habits, life histories, migrations, identification, and conservation of birds. There is both field and laboratory work.

Open only to graduates. May be offered toward Group III requirements. Fee \$1.00.

SUMMARY OF ATTENDANCE

Twelve Months Ending June 4, 1954

	Men	Women	Total	Total
Eight Weeks' Summer Term, 1953 -----	253	350	603	603
Extension Students, Summer, 1953				
Residence Extension -----	8	49	57	
Shelbyville Workshop (3 weeks) -----	5	39	44	
Olney Workshop (3 weeks) -----	1	14	15	
Hillsboro Workshop (3 weeks) -----	1	15	16	
Flora Workshop (3 weeks) -----	5	25	30	
Field Study Courses -----	1	21	22	
	21	163	184	184
 Regular School Year—September 14, 1953 to June 4, 1954				
COLLEGE				
Seniors -----	112	94	206	
Juniors -----	111	92	203	
Sophomores -----	190	140	330	
Freshmen -----	390	204	594	
Unclassified -----	12	5	17	
Graduates -----	6	2	8	
Total in College -----	821	537	1358	
EXTENSION STUDENTS (exclusive of duplicates) -----	115	459	574	
HIGH SCHOOL				
Twelfth Year -----	25	19	44	
Eleventh Year -----	14	23	37	
Tenth Year -----	15	14	29	
Ninth Year -----	19	16	35	
Total in High School -----	73	72	145	
Total above Eighth Grade -----	1009	1068	2077	
ELEMENTARY TRAINING SCHOOL -----	115	121	236	
Total for the Regular Year -----	1124	1189	2313	2313
Total of Students and Pupils for the twelve months ending June 4, 1954 -----				3100

YEAR 1953-54

ILLINOIS COUNTIES REPRESENTED

Adams	DuPage	Logan	Richland
Bond	Edgar	Macon	Saline
Bureau	Edwards	Macoupin	St. Clair
Champaign	Effingham	Madison	Sangamon
Christian	Fayette	Marion	Shelby
Clark	Grundy	McHenry	Stark
Clay	Henry	McLean	Tazewell
Coles	Iroquois	Menard	Vermillion
Cook	Jasper	Mercer	Wabash
Crawford	Jefferson	Montgomery	Wayne
Cumberland	Jersey	Moultrie	White
DeKalb	Kankakee	Peoria	Will
DeWitt	Lawrence	Piatt	Winnebago
Douglas			

OTHER STATES REPRESENTED

Florida	Iowa	Massachusetts	Pennsylvania
Indiana	Louisiana	Ohio	Wisconsin

OTHER COUNTRIES REPRESENTED

Costa Rica	Nigeria, West Africa
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1952-53
NATIONAL HONORARY FRATERNITIES
MEMBERSHIP

KAPPA DELTA PI

Marion J. Akers	Graduate	Charleston
Betty Lou Anaker	Senior	Villa Grove
Anna Kathryn Bruce	Senior	Charleston
Donald Lee Calvin	Junior	Mt. Olive
Rosemary Juaneer Carlyle	Junior	Mattoon
Harold Paul Carter	Senior	Windsor
Virginia Alice Carwell	Junior	Oakland
Robert Dean Climer	Graduate	Palestine
James Henry Cole	Senior	Hammond, Indiana
Elizabeth Ann DePew	Senior	Springfield
Margaret Ann Ellington	Senior	LaGrange Park
Moiria Stevens Fuller	Senior	Louisville
Marilyn Jean Heth	Senior	Mason
Richard Dale Hudnut	Senior	Charleston
Louella Ann Johnson	Senior	Palmer
Ettajane Jones	Senior	Arcola
Sarajeane Jones	Senior	Arcola
Ella Mae Kercheval	Senior	Windsor
Patricia Anne Major	Senior	LaGrange
Wilma Louise Mitchell	Senior	Oblong
Charles Everett Pettypool, Jr.	Senior	Charleston
Joyce Elizabeth Reynolds	Junior	Charleston
Mary Alice Rigg	Junior	Mt. Carmel
Marilyn Pinson Roland	Senior	Ramsey
Monty Merlin Stanley	Senior	Flora
Margery Louise Steele	Senior	Shelbyville
Patricia Ann Tucker	Senior	Raymond
Harold Gene Whitley	Senior	Humboldt
Margaret Anne Wood	Senior	Effingham
George William Woodyard	Senior	Ashmore
Robert Francis Zeigel	Senior	Charleston

KAPPA MU EPSILON

Anna Kathryn Bruce	Senior	Charleston
Wilbur Leon Francis	Sophomore	Chrisman
John Winchester Hamilton	Junior	Atwood
Floyd Allen Miller	Senior	Danville
Shirley Murl Mitchell	Sophomore	Gillespie
Betty Jo Moore	Senior	Charleston
Richard Eugene Pettyjohn	Senior	Sumner
Charles Everett Pettypool, Jr.	Senior	Charleston
Mary Alice Rigg	Junior	Mt. Carmel
Patricia Ann Tucker	Senior	Raymond
John Boyd Waggoner	Senior	Gays
John Finley Witherspoon	Junior	Fairmount
Robert Francis Zeigel	Senior	Charleston

GAMMA THETA UPSILON

Marion James Akers	Graduate	Charleston
Melvin Eugene Barche	Senior	Oney
Harold Paul Carter	Senior	Windsor
Gary Lane Fowler	Junior	Cowden
Thomas W. Grossman	Senior	Robinson
Charles Clifford Harper	Senior	Stewardson
Randall Pierce Jossierand	Senior	Oakland
John Henry Keener	Junior	Albion
Robert Alexander Warren	Senior	Robinson
Harold Gene Whitley	Senior	Humboldt

KAPPA OMICRON PHI

Ida Jane Andrews	Sophomore	Neoga
Orpha Catherine Bower	Junior	Charleston
Martha Ann Brown	Sophomore	Oblong
Rita Louise Burke	Senior	Danville

Mary Frances Cline.....	Senior.....	Mulberry Grove
Joanne Eleanor Courtright.....	Junior.....	Sheldon
Helen Joan Davis.....	Senior.....	Litchfield
Lola Marilyn Diel.....	Junior.....	Noble
Barbara Jean Funkhouser.....	Junior.....	Hume
Nancy Lee Gray.....	Senior.....	St. Francisville
Betty Joan Harrison.....	Senior.....	Charleston
Alice Cook Lauher.....	Senior.....	Paris
Marjorie Fern Nichols.....	Sophomore.....	Neoga
Vivian Darlene Parker.....	Senior.....	Westfield
Carolyn Gaertner Patberg.....	Senior.....	Charleston
Lorna Earlene Petty.....	Sophomore.....	Fana
Dorothy Lambert Shiley.....	Senior.....	Albion
Dorothy Mae VanDyke.....	Junior.....	Greenup
Victoria Ruthelma Waller.....	Sophomore.....	Monticello
Loretta Arlene Watson.....	Sophomore.....	Westfield
Barbara Claire Weerts.....	Junior.....	Buckley
Marjorie Ilene Weller.....	Senior.....	Hindsboro
Lois Dent Winkler.....	Junior.....	Indianola

PI OMEGA PI

Ralph Kenton Beals.....	Senior.....	Stewardson
Lowell Fay Boatz.....	Sophomore.....	Lakewood
Daniel Phillip Brown.....	Senior.....	Effingham
Delores June Carpenter.....	Junior.....	Shelbyville
Wanda Jean Hardway Champion.....	Senior.....	Mattoon
William L. Danley.....	Senior.....	Lincoln
Mary Margaret DeWerff.....	Sophomore.....	Farina
JoAnn Dickinson.....	Sophomore.....	Shelbyville
Thomas Wayne Fallar.....	Sophomore.....	Charleston
Janice Gail Jump.....	Senior.....	Redmon
Margaret Wylie Land.....	Junior.....	Carmi
Phillip Gene McDivitt.....	Sophomore.....	Charleston
James Allen McWilliams.....	Junior.....	Oney
Donald Lee Michael.....	Senior.....	Robinson
Barbara Ann Murphy.....	Senior.....	Robinson
Joan Antoinette Powers.....	Junior.....	Oak Lawn
William Henry Reineke.....	Senior.....	Raymond
Beverly Janette Riley.....	Junior.....	Sullivan
Stuart Ruwe.....	Senior.....	Mattoon
Aden Ernest Sempsrott.....	Junior.....	Mattoon
Jean Alice Scofield.....	Senior.....	Mattoon
Donna Deanne Shrader.....	Senior.....	Mattoon
Eugene Leon Stanberry.....	Junior.....	Charleston
Monty Merlin Stanley.....	Senior.....	Flora
Margery Louise Steele.....	Senior.....	Shelbyville
Samuel Joseph Taber.....	Junior.....	Mattoon
Mary Joyce Tesson.....	Sophomore.....	Mattoon
Norma Mae Thomas.....	Senior.....	Benson
Helen Catherine Vacketta.....	Senior.....	Westville
Jane Wigginton.....	Junior.....	Oakland
Herbert Henry Yunge.....	Sophomore.....	Benson

EPSILON PI TAU

Robert Elmer Adams.....	Senior.....	Harvey
John Ira Alexander.....	Senior.....	Newton
Marco Leo Bono.....	Senior.....	Chicago
Charles Wayne Cole.....	Junior.....	Charleston
Wayne Henry Goldenstein.....	Sophomore.....	Broadlands
Daniel Lee Householder.....	Senior.....	Dundas
Donald Julius Jehling.....	Junior.....	Dupo
Marion Marcel Kleiss.....	Sophomore.....	Tuscola
Warren Bruce Lister.....	Senior.....	Harvey
Sylvester Jack Noecker.....	Senior.....	Effingham
Earl Keith Sheldbower.....	Junior.....	Willow Hill
Paul Lloyd Siverly.....	Junior.....	Marshall
Edgar Dean Smitley.....	Senior.....	Paris
Paul Reginald Sobol.....	Senior.....	Chicago
Earl Estes Stelzer.....	Senior.....	Mt. Carmel

PI DELTA EPSILON

Robert Addison Bain.....	Senior.....	Mattoon
Rita Louise Burke.....	Senior.....	Danville

Virginia Alice Carwell	Junior	Oakland
Marie Monica Cerven	Senior	Pana
William L. Danley	Senior	Lincoln
Helen Joan Davis	Senior	Litchfield
Reba Adaline Dougherty	Junior	Mt. Carmel
Clare Ann Emmerich	Freshman	Newton
Doris June Feist	Junior	Sullivan
Jacqueline Jane Fuess	Freshman	Plainview
Virginia Ruth Garbe	Junior	Mattoon
Barbara Ann Hardin	Junior	Robinson
Beverly Bebe Hershberger	Sophomore	Champaign
Gerald Harlan Hogshead	Senior	Mattoon
Patricia Anne Major	Senior	La Grange
Audree Ethel McMillan	Sophomore	Danville
Floyd Allen Miller	Senior	Danville
Mildred Emily Myers	Junior	Ashmore
Ann Wannamaugher Newton	Senior	Effingham
Robert Lee Ozier	Senior	Greenup
Virginia Randolph	Junior	Mt. Carmel
Jack Arthur Rardin	Senior	Charleston
Barbara Jane Seibert	Junior	Mt. Carmel
Cecelia Agnes Shay	Junior	Arthur
Jeanne Stuckey	Sophomore	Effingham
John Boyd Waggoner	Senior	Gays
Delores Evelyn Wilson	Junior	Neoga
Eleanor Elizabeth Young	Junior	Hindsboro

PI KAPPA DELTA

Patricia Joanne Bartle	Junior	Clinton
Edward Alexander Brennan	Junior	Chicago
Evelyn Lucille Burris	Junior	Medora
Reba Adaline Dougherty	Junior	Mt. Carmel
John Robert Dowling	Sophomore	Danville
Moirra Stevens Fuller	Senior	Louisville
Dana Keith Johnson	Junior	Mt. Carmel
Dale Arthur Level, Jr.	Junior	Casey
John Curtis Luallen, Jr.	Junior	Decatur
Karen Jo Moore	Senior	Charleston
Joe Richard O'Dell	Freshman	Lagootee
Stanley Bruce Pvvatt	Sophomore	Vandalia
Leo Kenneth Ruley	Sophomore	Charleston

PHI SIGMA MU

Betty Lou Anaker	Senior	Villa Grove
Elizabeth Ann DePew	Senior	Springfield
Edwin Arthur Icenogle	Senior	Mattoon
Barbara Louise Jackson	Senior	Charleston
Ella Mae Kercheval	Senior	Windsor
Vance H. Kercheval	Graduate	Windsor
John William Kolesa	Senior	Edwardsville
George Gilbert Lake	Junior	Bridgeport
George Kenneth Mellott	Senior	Rockville, Maryland
Gail Ellsworth Menk	Graduate	Edwardsville
Elizabeth Sue Morrison	Junior	Peotone
Reginald Lee Replogle	Senior	Charleston
Rae Darlene Schultze	Sophomore	Pana
Patsy Jane Stanley	Junior	Grayville
Shirley Joan Strine	Senior	Mt. Carmel

KAPPA PI

Zelma Joann Baker	Senior	Charleston
Ruth Ellen Bennett	Junior	Oakland
Max Ira Briggs	Senior	Charleston
Robert Michael Calvin	Senior	Mt. Olive
Doris Jean Cohoon	Senior	Martinsville
Billy Joe Deeter	Junior	Oblong
Neta Jean Estes	Senior	Casey
Barbara Ellen Hargis	Senior	Mt. Pulaski
Hannah Amelia Newgent	Junior	Paris
Jacqueline Isabel Olsen	Junior	Charleston
Merel Eugene Pollard	Senior	Stewardson
Max Raymond Rennels	Senior	Charleston
Evalyn Finley Smith	Senior	Sullivan
Earl Estes Stelzer	Senior	Mt. Carmel
Carol Jeannine Wolven	Senior	Bradley

SIGMA ALPHA ETA

Reba Adaline Dougherty	Junior	Mt. Carmel
Barbara Rochelle Eppstein	Senior	Charleston
Mary Phyllis Franklin	Senior	Mattoon
Carolyn Joyce Girl	Senior	Hume
Jerry Griffith	Junior	St. Elmo
Nancy Jane Hampton	Senior	Charleston
Charles Thomas Hashbarger	Junior	Mattoon
Karen Jo Moore	Senior	Charleston
Joyce Elizabeth Reynolds	Junior	Charleston
John Roger Simmons	Senior	Rossville
Nadine Angela Sperandio	Senior	Glen Carbon

THETA ALPHA PHI

Eugene Ellison Aikman	Junior	Mattoon
Donald Everett Alton	Unclassified	Robinson
Patricia JoAnne Bartle	Senior	Clinton
Kenneth Eugene Bidle	Senior	Ashmore
Alta Mae Buckley	Senior	Charleston
James Henry Cole	Senior	Hammond, Indiana
Geoffrey Cecil Crewe	Junior	Sao Paulo, Brazil
Margaret Ann Ellington	Senior	LaGrange Park
Barbara Rochelle Eppstein	Senior	Charleston
Mary Phyllis Franklin	Senior	Mattoon
Marjorie Ellen Graham	Junior	Hillsboro
Dana Keith Johnson	Junior	Mt. Carmel
Robert Wilbur Kirby	Junior	Mason
Drury Dean Long	Junior	Camargo
Marilyn JoAnn Macy	Senior	Newman
Vee Ruth Nelson	Senior	Cerro Gordo
Thomas LeRoy Osborn	Senior	Sullivan
Joyce Elizabeth Reynolds	Junior	Charleston
John Roger Simmons	Senior	Rossville
Kathryn Rose Staub	Junior	Marshall
Phillip Thomas Thornton	Junior	Taylorville
Frederick Merlyn Voigt	Senior	Mattoon
Mary Josephine Voorhies	Junior	Marshall
Glenn Joseph Wolfe	Sophomore	St. Francisville

SIGMA TAU DELTA

Robert A. Bain	Senior	Mattoon
Charles Orland Boyles	Senior	Albion
Billy Lee Bryan	Senior	Toledo
Virginia Alice Carwell	Junior	Oakland
Doris Jean Cohoon	Senior	Martinsville
Mary Phyllis Franklin	Senior	Mattoon
Nancy Jane Hampton	Senior	Charleston
Ann Wannamaugher Newton	Senior	Effingham
Valeta Marie Schmidt	Senior	Mt. Carmel
Erma Mae Thompson	Junior	Edgewood
Patricia Ann Tucker	Senior	Raymond
Carol Jeannine Wolfen	Senior	Bradley



DEGREE GRADUATES

June, 1953

Master of Science in Education

Name	Post Office
Akers, Marlon James	Charleston
Climer, Robert Dean	Palestine
Menk, Gail Ellsworth	Edwardsville

Men	2
Women	1
Total	3

Bachelor of Science in Education

June, 1953

Name	Post Office
Adams, Jack Duncan	Dupo
Adams, Robert Elmer	Harvey
Allen, Lawrence Earl	Lovington
Ambrose, Robert Dean	Charleston
Anderson, James Daniel	Collinsville
Appleman, Dorothy Ann	Decatur
Baker, Zelma Joann	Charleston
Beals, Ralph Kenton	Stewardson
Beck, James Reed	Vandalia
Blaase, Loren Orval	Tuscola
Boldrey, Gordon Lee	Bridgeport
Bono, Marco Leo	Chicago
Boyles, Charles Orland	Albion
Briggs, Max Ira	Charleston
Brubeck, James Faris	Taylorville
Bruce, Anna Kathryn	Charleston
Bryan, Billy Lee	Toledo
Buchholz, Veva Annis Brooks	Chicago
Buckley, Alta Mae	Charleston
Burgener, Harry John, Jr.	Decatur
Burke, Rita Louise	Danville
Carr, James Patrick	Hume
Cavanaugh, Gerald Lee	Charleston
Champion, Wanda Jean Hardway	Mattoon
Claude, Roger Paul	Springfield
Cohon, Doris Jean	Martinsville
Cohrs, David Donald	Charleston
Cole, Charles Everett	Hammond, Indiana
Cole, James Henry	Hammond, Indiana
Collins, Anna Lee	Casey
Crawford, Fred Halden	Danville
Crumrin, Walter Dale	West Union
Daron, Patricia Jean	Pawnee
Davies, John David	Charleston
Davis, Helen Joan	Litchfield
Davison, Frederick	Charleston
Dawson, William Girard	Granville
Decker, Lois Jean Ball	Charleston
DePew, Elizabeth Ann	Springfield
Edwards, Erma Jean	Mansfield
Ellis, Ted, Jr.	Danville
Endsley, Norman Tremont	Charleston
Estes, Neta Jean	Casey
Foreman, Paul Wayne	Charleston
Franklin, Mary Phyllis	Mattoon
Frantz, Joan	Tuscola
Fuller, Elizabeth Moira Stevens	Louisville
Gill, Patricia Janice	Clay City
Gire, James David	Villa Grove
Gray, Nancy Lee	St. Francisville
Grennan, James Edward	Decatur
Griesemer, Donald Lee	Lancaster
Grossman, Thomas Wilson	Robinson
Hampton, Nancy Jane	Charleston
Hargis, Barbara Ellen	Mt. Pulaski
Harper, Charles Clifford	Stewardson
Harrison, Alva White	Pana
Harrison, Betty Joan	Charleston
Heth, Marilyn Jean	Mason
Hogshead, Gerald Harlan	Mattoon
Hudnut, Richard Dale	Charleston
Huisinga, Marilyn Louise	Casey
Hurt, Martha Jane Robinson	Allerton
Icenogle, Edwin Arthur	Mattoon
Icenogle, Phyllis Marion Cordes	Toledo

Name	Post Office
Ingram, Virginia Joan	Charleston
Johnson, Louella Ann	Palmer
Jones, Sarajeau	Arcola
Kneller, Lou Ann	Shelbyville
Kolesa, John William	Edwardsville
Lane, Helen Jeanene	Charleston
Lauher, Alice Ilene Cook	Paris
Lee, Robert Wayne	Mt. Vernon
Lister, Warren Bruce	Harvey
Macy, Marilyn Jo Ann	Newman
Major, Patricia Anne	LaGrange
Mays, Gloria Antoinette	Chicago
McDevitt, John Thomas	Effingham
McMullen, William Russell	Hume
McNeil, Charlene Ann	Thawville
Mellott, George Kenneth	Rockville, Maryland
Michael, Donald Lee	Robinson
Michlig, Sylve Catharine	Manlius
Miller, Bob Gene	Taylorville
Miller, Floyd Allen	Danville
Mitchell, Helen Lee Cravener	Chicago
Mitchell, Wilma Louise Schlosser	Oblong
Moeller, Alvin Harris	Mascoutah
Moore, Betty Jo	Charleston
Moore, Karen Jo	Charleston
Myers, Don Richard	Lawrenceville
Nealy, Clyde Mathew	Edwardsville
Newman, Roberta Jean	Naperville
Northen, Thomas John, Jr.	Crete
Osborn, Thomas Leroy	Sullivan
Oxley, Charles Albert	Robinson
Parker, Vivian Darlene	Westfield
Patberg, Carolyn Ann Gaertner	Charleston
Patberg, Norman Benjamin, Jr.	Westville
Pearcy, Myrtle Ellen	Charleston
Pettypool, Charles Everett, Jr.	Charleston
Pilson, Howard Evan	Clay City
Polston, Ronald Wayne	Raymond
Prather, Vera Fern	Kansas
Pullen, Carol Francis	Arcola
Pullen, Etta Jane Jones	Arcola
Reineke, William Henry	Raymond
Replogle, Reginald Lee	Charleston
Roe, Dwayne Eugene	Danville
Rowe, Richard D.	Mattoon
Rowland, James Edward	Robinson
Runyon, Alice Ellen	Noble
Ruwe, Stuart	Mattoon
Sawyer, Earl Tyrus	Sidell
Scanlan, Elaine	Newton
Schlicher, Charles William, Jr.	Charleston
Schmalhausen, Delores Walker	Olney
Schmidt, Valeta Marie	Mt. Carmel
Scotfield, Jean Alice	Mattoon
Sexton, Carl Norman	Paris
Shiley, Dorothy Mae Lambert	Alblon
Shiley, Richard Herbert	Glenview
Shrader, Donna Deanne	Mattoon
Shull, Elmer Gene	Flat Rock
Simmons, John Roger	Rossville
Sims, Jack Dorman	St. Elmo
Smith, Charles David	Beecher City
Smith, Kenneth Whitley	Charleston
Smitley, Edgar Dean	Paris
Snack, Earl Eugene	Sidell
Sperandio, Nadine Angela	Glen Carbon

Name	Post Office
Stephens, Osler Z., Jr. -----	Stewardson
Stiff, Shirley Ann -----	Mattoon
Strine, Shirley Joan -----	Mt. Carmel
Taylor, Glenn Robert -----	Robinson
Thode, Thomas Albert -----	Mattoon
Thode, William Roland -----	Mattoon
Thomas, Norma May -----	Benson
Tipsword, Ray Fenton -----	Beecher City
Toliver, Mary Ellen -----	Noble
Tucker, Patricia Ann -----	Raymond
Tuetken, Lois Ellen -----	Nokomis
Vacketta, Helen Catherine -----	Westville
Venatta, Janet Ruth -----	Lerna
Voigt, Frederick Merlyn -----	Mattoon
Watkings, Gordon L. -----	Villa Grove
Wheeler, Paul Allen -----	Charleston
Whitley, Harold Gene -----	Humboldt
Wickliffe, Virginia Louise Smith -----	Decatur
Winkler, John Jay -----	Newman
Wolven, Carol Jeanine -----	Bradley
Wood, Margaret Anne -----	Effingham
Zeigel, Robert Francis -----	Charleston
Men -----	86
Women -----	67
Total -----	153

TWO-YEAR JUNIOR COLLEGE GRADUATES

June, 1953

Tuttle, Susan Ann -----	Mattoon
Men -----	0
Women -----	1
Total -----	1

August, 1953

Master of Science in Education

Name	Post Office
Beauchamp, Paul Raymond -----	Georgetown
Brown, Harrison Wesley -----	Arthur
Eacott, George Albert -----	Galesburg
Gilbert, Ruth Irene Lacey -----	Mattoon
Holiday, Winifred Marion -----	Charleston
Hopper, Estel Amelia -----	Park Ridge
Ketchie, Stephen L. -----	Cypress
Luthe, Roy Melvon -----	West Salem
Mills, Artrel Asbury -----	Sumner
Ross, Esther D. -----	Charleston
Sinclair, Robert Lee -----	Kinmundy
Swofford, Paul E. -----	Charleston
Tedrick, Myron Ray -----	Casey
Waldrip, Earl William -----	Greenup

Name	Post Office
Whitacre, Joseph Charles	Peoria
Williams, Lois Jean	Charleston
Wrenn, Robert Gene	Charleston
Young, Irma Willingham	Charleston
Men	12
Women	6
Total	18

Bachelor of Science in Education August, 1953

Name	Post Office
Alexander, John Ira	Newton
Alison, Helen Anderson	Westville
Anaker, Betty Lou	Villa Grove
Arney, Mary Ellen Ernst	Hillsboro
Ault, Esther Mary	Casey
Baker, Martha Jean	Mattoon
Ballard, Verna	Peoria
Baltmeskis, Edward Joseph	Charleston
Beagley, Janet Nadine	Centrاليا
Beck, Bertha May Webb	Sullivan
Bidle, Kenneth Eugene	Ashmore
Biggs, Ninetta Mary	Mattoon
Blair, Delbert Lambird	Noble
Brotherton, Edith Jarrett	Mattoon
Bunting, Virgil Walter	Golden Gate
Cerven, Marie Monica	Pana
Clements, Marcia Lea	Sumner
Cline, Mary Frances	Mulberry Grove
Corrie, George	Claremont
Coventry, Betty Jane	Findley
Crumrin, Nolan J.	West Union
Detto, Roger Wallace	Effingham
Field, Maurine Moore	Charleston
Flenniken, Clarissa	Cowden
Fulk, Kneffler Varda	Bogota
Galbreath, Leo Edward	Olney
Griggs, Edith Margaret Stoltz	Bridgeport
Hallett, Cleda Fesser	Pana
Hash, Roscoe Ahart	Strasburg
Hayton, Rosalie LaVerna	Palos Heights
Hopkins, Mildred Zelma	Ridgefarm
House, Nellie Fern Haskell	Mattoon
Josserand, Randall Pierce	Oakland
Jump, Janice Gail	Redmon
Kercheval, Ella Mae	Windsor
Klarman, Fred	Moweaqua
Klay, Lester Eugene	Pana
Koontz, Maylo	Wheeler
Lynch, James Arthur	Charleston
Maurer, Wanda Sue	Marshall
Mausehund, Norvella Pence	Hillsboro
Medler, Grace Nadine	Albion
Miller, Mabel Evelyn Whitacre	Michigan City, Indiana
Mormino, Rose Marie	Hillsboro
Myers, Billy Joe	St. Elmo
Noecker, Sylvester Jack	Effingham
Olive, Roy Lawrence	Charleston

Name	Post Office
Pettyjohn, Richard Eugene	Sumner
Petzing, Hazel Sparks	Beecher City
Phillips, Joy McCollough	Noble
Phillips, Nelle	Pana
Pollard, Merel Eugene	Stewardson
Rennels, Max Raymond	Charleston
Rennels, Rosalie Elma	Mattoon
Reynolds, Richard Neal	Charleston
Richards, Florence Belle Smith	Stewardson
Robinson, Emma Geraldine Hanisko	Edwardsville
Salamone, Frank	Chicago
Scriber, Estaleen Elizabeth	Jacksonville
Sinclair, Vivian Juanita Nelson	Palestine
Smith, Evalyn Finley	Sullivan
Sobel, Paul Reginald	Chicago
Spries, Edith June Farrell	Danville
Stanley, Monty Merlin	Flora
Steele, Margery	Shelbyville
Stelzer, Earl Estes	Mt. Carmel
Thorn, William Dwight	Mattoon
Vitulli, Vito Nick	Chicago
Wade, Elizabeth Dozier	Mt. Carmel
Warren, Robert Alexander	Robinson
Webb, Eli Harriss	Sullivan
Wesner, Vergie Estalene	Flat Rock
Men	30
Women	42
Total	72

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| 4. Training School | 15. Mary J. Booth Library |
| 5. Practical Arts Bldg. | 16. Annex |
| 6. Power Plant | 17. Home Management Houses |
| 7. Greenhouse | 18. Douglas Hall |
| 8. Science Bldg. | 19. Lincoln Hall |
| 9. Lantz Gym | 20. Lincoln Field Service Bldg. |
| 10. Cafeteria | 21. Student Apartments |
| 11. Student Lounge | |

