

**Eastern Illinois
Charleston**

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**1961 Catalog
Eastern Illinois
University Bulletin**

EASTERN ILLINOIS UNIVERSITY BULLETIN

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62nd YEAR

ACADEMIC RECORD 1960-61 SESSIONS

ANNOUNCEMENTS FOR 1961-62 SESSIONS

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UNIVERSITY CALENDAR 1961-1962

Monday, September 4 Faculty Day and Parents Day
Tuesday-Wednesday, September 5-6 Orientation

Fall Quarter

Thursday, September 7 Registration
Friday, September 8 Classes Begin
Saturday, September 9 Second Day of Classes
Friday, October 13 I.E.A. Eastern Division Meeting
Saturday, October 14 Homecoming
Friday-Saturday-Monday-Tuesday,
November 17-21 Examinations
Wednesday, November 22 Quarter Closes

Winter Quarter

Tuesday, November 28 Registration
Wednesday, November 29 Classes Begin
Wednesday, December 20,
12:00 Noon Christmas Vacation Begins
Wednesday, January 3, 12:00 Noon Classes Resume
Wednesday-Saturday, February 21-24 Examinations
Monday, February 26 Quarter Closes

Spring Quarter

Monday, March 5 Registration
Tuesday, March 6 Classes Begin
Friday, April 20 Good Friday
Sunday, May 20, 3:00 p.m. Commencement
Monday-Thursday, May 21-24 Examinations
Friday, May 25 Quarter Closes

Summer Quarter

Monday, June 4 Registration
Tuesday, June 5 Classes Begin
Wednesday, July 4 Independence Day
Wednesday-Friday Noon, August 8-10 Examinations
Thursday, August 9, 8:00 p.m. Commencement
Friday, August 10, 6:00 p.m. Quarter Closes

THE TEACHERS COLLEGE BOARD



APPOINTED MEMBERS

VERNON L. HEATH, Robinson	1959-61°
ALEXANDER SUMMERS, Mattoon	1959-61°
CHAUNCEY B. WATSON, SR., DeKalb	1959-61°
CARL DUNBAR, Macomb	1957-63
WILLIAM E. REED, Oak Park	1957-63
CLARENCE R. ROPP, Normal	1957-63
HARRIET LOWDEN MADLENER, Oregon	1959-65
ROYAL A. STIPES, JR., Champaign	1959-65
MORTON H. HOLLINGSWORTH, Joliet	1960-65
NOBLE J. PUFFER, Chicago	1961-67
WILLIAM E. McBRIDE, Chicago	1961-67
PAUL STONE, Sullivan.....	1961-67



EX OFFICIO MEMBERS

GEORGE T. WILKINS
Superintendent of Public Instruction, Springfield

JAMES A. RONAN
Director, Department of Finance, Springfield



OFFICERS

ROYAL A. STIPES, JR., *Chairman*
ALEXANDER SUMMERS, *Vice-Chairman*°
CLARENCE R. ROPP, *Secretary*
RICHARD G. BROWNE, *Executive Officer*, Springfield

Eastern Illinois University is governed by the Teachers College Board. The Board consists of nine members appointed by the governor and two ex officio members designated by law.

EASTERN ILLINOIS UNIVERSITY CHARLESTON

★

FACULTY 1960-61

★

(Date of joining staff in parentheses)
(Asterisk (*) indicates head of the department)

Chief Administrative Officers

- QUINCY DOUDNA, Ph.D., LL.D. *President*
B.A., Carroll College, 1927; M.A., 1930, Ph.D., 1948, University of Wisconsin; LL.D. Carroll College, 1960. (1956)
- HOBART FRANKLIN HELLER, Ph.D. *Dean*
of the Faculty
B.S., Gettysburg College, 1924; A.M., 1931, Ph.D., 1940, Columbia University. (1931)
- RUDOLPH DONALD ANFINSON, Ph.D. *Dean of Students*
B.Ed., State Teachers College, St. Cloud, Minnesota, 1932; M.A., 1933, Ph.D., University of Minnesota, 1939. (1940)
- RAYMOND ROSCO GREGG, A.M. *Director of Business Affairs*
Ph.B., 1922, A.M., 1923, The University of Chicago. (1934)
- ASA M. RUYLE, JR., Ed.D. *Director of Regional Services*
B.S., 1946, M.Ed., 1947, Ed.D., 1949, University of Missouri. (1956)

Administrative Staff

STAFF OF DEAN OF THE FACULTY

- WILLIAM HENRY ZEIGEL, Ph.D. *Associate Dean,*
Teacher Education and Placement
B.S., Kirksville State Teachers College, 1925; A.M., 1926, Ph.D. 1930, University of Missouri. (1937)

- MAURICE WESLEY MANBECK, Ph.D. *Assistant Dean,
Registration and Records*
B.S., Hamline University, 1940; M.A., 1949, Ph.D., 1954,
University of Minnesota. (1957)
- HARRY JAMES MERIGIS, Ed.D. *Director of Laboratory School*
B.Ed., State University Teachers College, Plattsburg, New
York, 1947; Ed.D., University of Oklahoma, 1954. (1954)
- ROSCOE FREDERICK SCHAUPP, Ph.D. *Chief Librarian*
A.B., University of Nebraska, 1926; M.A., 1929, Ph.D.,
1934, The Ohio State University; A.B.L.S., University of
Michigan, 1939. (1945)
- DONALD GEORGE GILL, M.Ed. *Assistant Director
of Laboratory School*
A.B., Illinois College, 1951; M.Ed., University of Illinois,
1955. (1960)
- LAVERN MARSHALL HAMAND, Ph.D. *Assistant
to the Dean of the Faculty*
B.S., Illinois Wesleyan University, 1940; M.A., 1947,
Ph.D., 1949, University of Illinois. (1957)
- VERNE ALLEN STOCKMAN, Ed.D. *Director
. . . of Audio-Visual Center*
B.S., 1928, M.A., 1931, Ed.D., 1952, Michigan State Col-
lege. (1955)
- JAMES KNOTT, M.A. *Assistant,
Teacher Education and Placement*
B.S., Eastern Illinois State College, 1949; M.A., North-
western University, 1952. (1957)
- ROBERT CHARLES WISEMAN, M.S. in Ed. *Assistant
in Audio-Visual Center*
B.S. in Ed., 1956, M.S. in Ed., 1959, Northern Illinois Uni-
versity. (1958)
- JOHN ALBERT JAMES WALSTROM, B.S. in Ed. *Assistant,
Records*
B.S. in Ed., Eastern Illinois University, 1960. (1959)

STAFF OF DEAN OF STUDENTS

- ELIZABETH KNIGHT LAWSON, Ph.D. *Associate Dean
of Students and Dean of Women*
B.A., 1927, M.A., 1935, Bucknell University; Ph.D., New
York University, 1939. (1939)

- DONALD A. KLUGE, M.A. *Assistant Dean of Students, Dean of Men*
Ph.B., Carroll College, 1947; M.A., Northwestern University, 1951. Graduate study, Indiana University, 1959-60. (1957)
- JERRY D. HEATH, M.D. *Director of Health Services and University Physician*
B.S., United States Naval Academy, 1945; B.S., 1950, M.D., 1952, University of Illinois. (1956)
- WILLIAM D. MINER, Ph.D. *Assistant Dean of Students, Director of Housing and Veterans' Services*
A.B., Knox College, 1936; A.M., 1948, Ph.D., 1950, Indiana University. (1950)
- DONALD ALLEN ROTHSCHILD, Ph.D. *Director of Testing Services*
A.B., 1924, M.A., 1927, University of Illinois; Ph.D., State University of Iowa, 1932. (1934)
- 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)
- ALVIN ASHTON MASON, M.Ed. *Director of University Union*
B.S., University of Maine, 1951; M.Ed., Springfield College, 1954. (1959)
- GEORGE L. WASEM, B.S. *Assistant Director of University Union*
B.A., Southern Illinois University, 1957. (1960)
- BERT LYNWOOD SIMPSON, JR., M.A. *Residence Hall Counselor, Douglas Hall*
B.A., Southern Methodist University, 1954; M.A., University of Texas, 1960. (1959)
- JAMES EDWARD BEALER, M.Ed. *Residence Hall Counselor, Lincoln Hall*
B.S., 1957, M.Ed., 1959, Pennsylvania State University. (1959)
- HELEN V. CONWAY, M.Ed., *Residence Hall Counselor, Weller Hall*
B.A., 1950, M.Ed., 1951, University of Pittsburgh, (1959)
- MARY RUTH CULBERT, M.A. *Residence Hall Counselor, Ford Hall*
B.A., Iowa State Teachers College, 1957; M.A., Teachers College, Columbia University, 1959. (1959)

VIRGINIA ELLEN SMITH, M.A. *Residence Hall
Counselor, McKinney Hall*
Ph.B., University of Chicago, 1948; M.A., University of
Minnesota, 1950. (1959)

LEAH NORTON HARTMANN, M.S. *Residence Hall
Counselor, Pemberton Hall*
B.A., Barnard College, 1924; M.S., Teachers College Co-
lumbia University, 1927. (1959)

STAFF OF DIRECTOR OF BUSINESS AFFAIRS

GERALD GENE GREEN, M.B.A. *Assistant Director*
B.S., Illinois State Normal University, 1949; M.B.A., In-
diana University, 1950; Graduate Study, Indiana Univer-
sity, 1951-52. (1955)

GERALD T. CRAVEY, B.S. *Director of Physical Plant*
B.S., University of Illinois, 1949. (1951)

STAFF OF DIRECTOR OF REGIONAL SERVICES

MARTIN SCHAEFER, Ph.D. *Director of Extension*
B.Ed., Wisconsin State College, 1948; M.A., State Univer-
sity of Iowa, 1951; Ph.D., State University of Iowa, 1958.
(1958)

DANIEL E. THORNBURGH, M.A. *Director of Information
and University Publications*
B.S., Indiana State Teachers College, 1952; M.A., State
University of Iowa, 1957. (1959)

KENNETH E. HESLER, Ed.M. *Director of Alumni Services*
B.S. in Ed., Eastern Illinois State College, 1951; Ed.M.
University of Illinois, 1955. Graduate Study, University of
Illinois, 1958-59. (1951)

DAVID THOMAS BAIRD, M.S. Ed. *Director of Admissions
and High School Relations*
B.S. Ed., State University of New York, Teachers College
at Oneonta, 1956; M.S. Ed., Indiana University, 1956.
(1959)

SAMUEL JOSEPH TABER, B.S. in Ed. *Admissions Examiner*
B.S. in Ed., Eastern Illinois State College, 1954. (1960)

ART

- CALVIN COUNTRYMAN, D.Ed.* *Professor*
Ph.B., The University of Chicago, 1934; A.M., Colorado
State College of Education, 1941; D.Ed., Pennsylvania
State University, 1955. (1945)
- CARL EDWIN SHULL, Ph.D. *Associate Professor and*
Director of Paul Sargent Art Gallery
B.Ed., Eastern Illinois State Teachers College, 1939; A.M.,
George Peabody College for Teachers, 1940; Ph.D., The
Ohio State University, 1954. (1947)
- ROLAND LEIPHOLZ, Ed.D. *Associate Professor*
A.B., Olivet College, 1937; A.M., 1945; Ed.D., 1953, Uni-
versity of Michigan. (1955)
- VIRGINIA W. HYETT, A.M. *Assistant Professor*
B.S. in Ed., 1929; A.M., 1931, University of Missouri;
Graduate Study, University of Missouri, 1940-42. (On
leave 1960-61) (1944)
- 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; Graduate Study, The Ohio State
University, 1959-60. (1952)
- JUNE MARIE KRUTZA, M.F.A. *Assistant Professor*
B.A., Manchester College, 1945; A.M.T., 1951, M.F.A.,
1952, Indiana University; Graduate Study, The Ohio State
University, 1957-59. (1952)
- CARY IRWIN KNOOP, M.F.A. *Assistant Professor*
B.A., James Millikin University, 1950; M.F.A., University
of Illinois, 1953. (1953)
- JAMES PETER ROY, D.Ed. *Assistant Professor*
B.A., Concordia College, 1952; M.A., State University of
Iowa, 1957; D.Ed., Pennsylvania State University, 1961.
(1960)
- JOANN KINDT, M.F.A. *Substitute Instructor*
B.F.A., 1947, M.F.A., 1950, The Art Institute of Chicago.
(1957)

BOTANY

- HIRAM FREDERICK THUT, Ph.D.* *Professor*
B.A., Bluffton College, 1925; M.A., 1926, Ph.D., 1930,
Ohio State University. (1932)

- KENNETH EUGENE DAMANN, Ph.D. *Professor*
 B.S., Kent State University, 1938; M.S., 1940, Ph.D., 1943,
 Northwestern University. (On leave second half of year
 1960-61) (1947)
- ICA MARKS, M.S. *Assistant Professor*
 B.Ed., Eastern Illinois State Teachers College, 1927; M.S.,
 Ohio State University, 1929; Graduate study, State Uni-
 versity of Iowa, 1929-1930. (1932)
- WESLEY CECIL WHITESIDE, Ph.D. *Assistant Professor*
 B.A., Augustana College, 1951; M.S., University of Illi-
 nois, 1956; Ph.D., Florida State University, 1959. (1960)
- JAMES DONALD BILBRUCK, Ph.D. *Assistant Professor*
 B.S., 1952, M.S., 1954, University of New Hampshire;
 Ph.D., University of Illinois, 1957. (1960)
- SARAH CLEVINGER, Ph.D. *Substitute Assistant Professor*
 A.B., Miami University, 1947; M.S., Butler University,
 1949; Ph.D., Indiana University, 1957. (1960)

BUSINESS

- JAMES FRANCIS GIFFIN, Ph.D.^a *Associate Professor*
 B.S. in Ed., Eastern Illinois State College, 1946; M.C.S.,
 Indiana University, 1947; Ph.D., Northwestern Univer-
 sity, 1953. (1947)
- JAMES MICHAEL THOMPSON, Ed.D. *Professor*
 B.S., Nebraska State Teachers College, 1929; A.M., Colo-
 rado State College of Education, 1933; Ed.D., New York
 University, 1936. (On Leave 1960-61) (1937)
- EARL SAMUEL DICKERSON, Ed.D. *Professor*
 B.S., Indiana State Teachers College, 1930; M.S., Univer-
 sity of Illinois, 1934; Ed.D. New York University, 1941.
 (1935)
- CLIFFORD LAWRENCE FAGAN, Ph.D. *Professor*
 B.S. in Ed., State Teachers College, Kirksville, Missouri,
 1937; M.A., 1940, Ph.D., 1949, State University of Iowa.
 (On leave first half of year 1960-61) (1949)
- JESSIE MARTHA HUNTER, M.A. *Assistant Professor*
 A.B., 1931, M.A., 1932, Michigan State College; Graduate
 study, Columbia University, 1936-37. (1937)
- BERTRAND PRESTON HOLLEY, M.A. *Assistant Professor*
 A.B., Murray State College, Kentucky, 1944; M.A., North-
 western University, 1947; Graduate study, Northwestern
 University, 1951-52. (1946)

- RICHARD WILLIAM CAMBRIDGE, Ph.D. *Assistant Professor*
B.S., 1940, M.A., 1951, Ph.D., 1960, State University of
Iowa. (1956)
- WILLIAM BERNARD BARRETT, M.B.A., C.P.A. *Instructor*
B.S., Arkansas A & M College, 1952; M.B.A., University
of Arkansas, 1954. (On leave 1960-61) (1956)
- JANE LAHEY, M.S.Ed. *Instructor*
B.S., 1947, M.S.Ed., 1950, University of Illinois. (1957)
- LEROY FRANCIS IMDIEKE, M.A. *Instructor*
B.S., Valley City State College, North Dakota, 1953; M.A.,
University of North Dakota, 1957. (1958)
- MARTHA IRENE DREW, M.Ed. *Instructor*
B.S., 1956, M.Ed., 1958, University of Illinois. (1958)
- JAMES A. HALLAM, M.S. *Instructor*
B.S., 1953; M.S., 1955, Illinois State Normal University.
(1958)
- MARY I. FRANCIS, M.S.Ed. *Instructor*
B.S.Ed., 1953, M.S.Ed., 1955, Southern Illinois University.
(On leave 1960-61) (1959)
- THOMAS LOWELL ELLIOTT, M.A. *Instructor*
B.S., 1956, M.A., 1959, Ball State Teachers College.
(1960)
- ROLAND DEAN SPANIOL, M.S. in Ed. *Instructor*
B.S. in Ed., 1953, M.S. in Ed., 1956, Illinois State Normal
University. (1960)
- ESTHER D. ROSS, M.S. in Ed. *Substitute Instructor*
B.S. in Ed., Ohio State University, 1930; M.S. in Ed.,
Eastern Illinois University, 1953. (1954)
- WALLACE EMERSON KELLY, M.S. *Substitute Instructor*
B.S. in Ed., Eastern Illinois University, 1958; M.S., Uni-
versity of Illinois, 1960. (1960)
- RICHARD C. TUSSING, M.A. *Substitute Instructor*
B.S., 1958, M.A., 1960, State University of Iowa. (1960)

CHEMISTRY

- HARRIS EUGENE PHIPPS, Ph.D.^{*} *Professor*
A.B., 1926, M.A., 1928, Oberlin College; Ph.D., Univer-
sity of Illinois 1931. (1931)

- LAWSON FRANCIS MARCY, Ph.D. *Professor*
 B.A., Evansville College, 1924; M.A., Columbia University, 1926; Ph.D., The Ohio State University, 1943. (1944)
- MELVIN ORVIL FOREMAN, Ph.D. *Professor*
 B.S., Capital University, 1925; S.M., Ph.D., 1929, The University of Chicago. (On leave Spring quarter 1960-61) (1946)
- SIDNEY RUSSELL STEELE, Ph.D. *Professor*
 B.S., University of Toledo, 1939; Ph.D., The Ohio State University, 1943. (1947)
- ROBERT JOHNSON SMITH, Ph.D. *Associate Professor*
 B.S. in Ed., Southeast Missouri State College, 1936; M.S., 1941, Ph.D., 1950, State University of Iowa. (1955)
- WELDON NICHOLAS BAKER, Ph.D. *Associate Professor*
 A.B., Morningside College, 1930; M.S., State University of Iowa, 1931; Ph.D., Columbia University, 1935. (1958)
- ARNOLD JOHN HOFFMAN, M.S. *Assistant Professor*
 B.S., Eureka College, 1930; M.S., University of Illinois, 1932. (1945)
- SARAH PON KIANG, M.S. *Substitute Assistant Professor*
 B.S., University of Detroit, 1942; M.S., University of Connecticut, 1944; Graduate study, Stanford University, 1944-45. (1958)

EDUCATION

- EMMA REINHARDT, Ph.D.* *Professor*
 A.B., 1924, M.A., 1925, Ph.D., 1927, University of Illinois. (1927)
- DONALD ALLEN ROTHSCHILD, Ph.D. *Professor*
 A.B., 1924, M.A., 1927, University of Illinois; Ph.D., State University of Iowa, 1932. (1934)
- ARTHUR USHER EDWARDS, Ph.D. *Professor*
 A.B., Iowa State Teachers College, 1924; A.M., 1928, Ph.D., 1932, State University of Iowa. (On leave second half of year 1960-61) (1937)
- WILLIAM HENRY ZEIGEL, Ph.D. *Professor*
 B.S., Kirksville State Teachers College, 1925; A.M., 1926, Ph.D., 1930, University of Missouri. (1937)
- ELIZABETH KNIGHT LAWSON, Ph.D. *Professor*
 A.B., 1927, M.A., 1935, Bucknell University; 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., 1939, University of Minnesota. (1940)
- GERHARD CARL MATZNER, Ph.D. *Professor*
B.A., Augustana College, Sioux Falls, S. D., 1937; M.A.,
University of South Dakota, 1940; Ph.D., Cornell Univer-
sity, 1951. (1955)
- DONALD LEWIS MOLER, Ph.D. *Associate Professor*
B.S., Kansas State Teachers College, 1939; M.Ed., 1949,
Ph.D., 1951, University of Kansas. (1951)
- HARRY JAMES MERIGIS, Ed.D. *Associate Professor*
B.S. in Ed., State Teachers College, Plattsburg, New York,
1947; Ed.D., University of Oklahoma, 1954. (1954)
- F. RAYMOND MCKENNA, Ed.D. *Associate Professor*
B.A., State Teachers College, North Dakota, 1934; M.Mus.,
Northwestern University, 1939; M.Ed., 1951, Ed.D., 1954,
Harvard University. (1953)
- VERNE ALLEN STOCKMAN, Ed.D. *Associate Professor*
B.S., 1928, M.A., 1931, Ed.D., 1952, Michigan State Col-
lege. (1955)
- CURTIS RAY GARNER, Ed.D. *Associate Professor*
B.S.E., Henderson State Teachers College, 1949; M.S.,
University of Arkansas, 1951; Ed.D., North Texas State
College, 1956. (1955)
- LOUIS M. GRADO, Ph.D. *Associate Professor*
B.S., New Mexico College of A. & M., 1949; M.A., Colo-
rado State College of Education, 1950; Ph.D., State Uni-
versity of Iowa, 1955. (1955)
- CARL KEATING GREEN, Ed.D. *Assistant Professor*
B.S., Billings Polytechnic Institute, 1942, M.S., 1948,
Ed.D., 1956, University of Houston. (1958)
- CLIFFORD E. WINKLER, M.Ed. *Assistant Professor*
B.S., 1949, M.A., 1953, Washington University; M.Ed.,
University of Missouri, 1955; Graduate study, Washington
University, 1955-58. (1958)
- ARTHUR J. LOOBY, Ed.D. *Assistant Professor*
B.S.Ed., 1948, M.Ed., 1949, Ed.D., 1956, University of
Missouri. (1959)
- HENRY A. STACKHOUSE, Ed.D. *Assistant Professor*
B.A., University of Arkansas, 1947; M.S., University of
Oklahoma, 1948; Ed.D., University of Missouri, 1957.
(1960)

- GLENN DAVID WILLIAMS, Ph.D. *Assistant Professor*
 B.S., 1950, M.Ed., 1954, Ph.D., 1960, The Ohio State
 University. (1960)
- HARRY ROBERT LARSON, Ed.D. *Assistant Professor*
 B.S., 1952, M.S., 1956, Northern State Teachers College,
 South Dakota; Ed.D., Colorado State College, 1961.
 (1960)

ENGLISH

- EUGENE MELVILLE WAFFLE, Ph.D.* *Professor*
 A.B., Indiana State Teachers College, 1925; M.A., Colum-
 bia University, 1932; Ph.D., George Peabody College for
 Teachers, 1939. (1926)
- GLADYS WINIFRED EKEBERG, Ph.D. *Professor*
 B.S., 1927, M.A., 1930, Northwestern University; Ph.D.,
 University of Wisconsin, 1942. (1945)
- FRANCIS WILLARD PALMER, Ph.D. *Professor*
 B.A., 1934, M.A., 1936, Ph.D., 1939, State University of
 Iowa. (On leave 1960-61) (1945)
- ROBERT LEE BLAIR, Ph.D. *Professor*
 B.A., 1928, M.A., 1929, The Ohio State University; Ph.D.,
 University of Illinois, 1936. (1946)
- RUTH HUFF CLINE, Ph.D. *Professor*
 B.A., Bridgewater College, 1922; M.A., Vanderbilt Univer-
 sity, 1926; A.M., Radcliffe College, 1928; Ph.D., The Uni-
 versity of Chicago, 1939; Litt. D., Bridgewater College,
 1955. (1947)
- EMMA CHENAULT KELLY, Ed.D. *Associate Professor*
 A.B., University of Kentucky, 1927; M.A., Columbia Uni-
 versity, 1937; Ed.D., New York University, 1953. (1946)
- JUDD KLINE, Ph.D. *Associate Professor*
 B.S., 1937, M.A., 1939, Ph.D., 1947, University of Minne-
 sota. (1948)
- MERRILIE MATHIER, Ph.D. *Associate Professor*
 A.B., 1942, A.M., 1943, Ph.D., 1950, Boston University.
 (1951)
- GEORGE WILLIAM ROMMEL, Ph.D. *Associate Professor*
 B.S. in Ed., Northern Illinois State Teachers College, 1946;
 M.A., 1951, Ph.D., 1953, Northwestern University. (1953)

- ELMER LEROY BROOKS, Ph.D. *Associate Professor*
B.A., Central State College, Edmond, Oklahoma, 1941;
M.A., Oklahoma University, 1948; Ph.D., Harvard Uni-
versity, 1954. (1956)
- ROBERT V. WHARTON, Ph.D. *Associate Professor*
B.A., University of Delaware, 1942; M.A., 1945, Ph.D.,
1954, Columbia University. (1956)
- JACOB BENNETT, Ph.D. *Assistant Professor*
A.B., Boston University, 1949; M.A., Columbia University,
1950; Ph.D., Boston University, 1960. (1957)
- KENNETH E. HESLER, Ed.M. *Assistant Professor*
B.S. in Ed., Eastern Illinois State College, 1951; Ed.M.,
University of Illinois, 1955; Graduate study, University
of Illinois, 1958-59. (1951)
- MARION LEE STEINMETZ, Ph.D. *Assistant Professor*
B.A., Sterling College, 1950; M.A., 1951, Ph.D., 1957,
Brown University. (1959)
- HAZEL MARGARET BATZER, Ph.D. *Assistant Professor*
B.A., Central Michigan College, 1939; M.A., 1947, Ph.D.,
1956, University of Michigan. (1960)
- ROBERT F. WHITE JR., Ph.D. *Assistant Professor*
A.B., University of North Carolina, 1946; M.A., Colum-
bia University, 1950; Ph.D., University of Pennsylvania,
1959. (1960)
- DOLORES BARRACANO SCHMIDT, M.A. *Assistant Professor*
A.B., Hunter College, 1953; M.A., University of Pennsyl-
vania, 1956. (1960)
- FRANCES WAMSLEY MCCOLL, M.A. *Instructor*
B.S., University of Illinois, 1934; M.A., Columbia Uni-
versity, 1957. (1957)
- THOMAS ARTHUR BROWNE, M.A. *Instructor*
B.A., 1952, M.A., 1957, University of Minnesota. (1960)
- EMMA LOUISE SHEPHERD, Ph.D. *Substitute*
Assistant Professor
B.A., Swarthmore College, 1952; M.A., West Virginia Uni-
versity, 1955; Ph.D., University of North Carolina, 1960.
(1960)

FOREIGN LANGUAGES

- KEVIN JOSEPH GUINAGH, Ph.D.^o *Professor*
A.B., 1919, A.M., 1921, St. Vincent College; Ph.D., Uni-
versity of Pittsburgh, 1931. (On leave Fall quarter 1960)
(1931)
- ELLEN ELIZABETH MICHAEL, Ph.D. *Professor*
A.B., Coe College, 1928; A.M., The University of Chicago,
1929; Ph.D., Laval University, 1948. (1930)
- RALPH MARION PERRY, Ph.D. *Associate Professor*
Ph.B., 1933, A.M., 1937, The University of Chicago; Ph.D.,
University of Illinois, 1949. (1957)
- MARTIN MICHAEL MIESS, Ph.D. *Assistant Professor*
Baccalaureat, Pressburg, 1945; Lehramt fuer Germanistik
und Psychologie, Universitaet Innsbruck, 1950; Ph.D., Uni-
versitaet Innsbruck, 1952. (1956)
- HELEN VANDEVENTER, M.S. in Ed. *Part-Time*
Substitute Instructor
B.Ed., 1932, M.S. in Ed., 1947, Eastern Illinois State Col-
lege. (1960)
- ELIZABETH BENNETT, A.B. *Part-Time Substitute*
Faculty Assistant
A.B., Boston University, 1955. (1960)

GEOGRAPHY

- DALIAS A. PRICE, Ph.D.^o *Professor*
B.A., University of Illinois, 1937; M.A., 1938; Ph.D., 1954,
University of Wisconsin. (1958)
- ELWYN L. MARTIN, Ph.D. *Associate Professor*
B.S., Central Michigan College, 1940; M.S., 1942, Ph.D.,
1949, University of Michigan. (1956)
- YING CHENG KIANG, Ph.D. *Assistant Professor*
B.A., National Central University, Nanking, China, 1940;
M.A., Stanford University, 1945; Ph.D., Columbia Uni-
versity, 1955. (1956)
- WALTER H. McDONALD, Ph.D. *Assistant Professor*
B.S., Southern Illinois University, 1946; M.S., 1949; Ph.D.,
1953, University of Illinois. (1958)

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 ALLEN 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. *Assistant
 Professor*
 B.Ed., Eastern Illinois State Teachers College, 1940; M.N.,
 Western Reserve University, 1946; Graduate study, Uni-
 versity of Michigan, 1958-59. (1952)
- MARGUERITE E. GREEN, M.P.H. *Instructor*
 R.N., Michael Reese Hospital School of Nursing, 1934;
 B.S., University of Chicago, 1942; M.P.H., University of
 Minnesota, 1947. (1958)

HOME ECONOMICS

- RUTH SCHMALHAUSEN, D. Ed.* *Professor*
 Ph.B., The University of Chicago, 1923; M.A., Columbia
 University, 1932; D. Ed., Pennsylvania State College, 1944.
 (1937)
- MARQUITA L. IRLAND, Ed.D. *Professor*
 B.S., 1942, M.A., 1947, Michigan State College; Ed.D.,
 Wayne State University, 1956. (1960)
- HELEN LOUISE DEVINNEY, A.M. *Assistant Professor*
 B.Ed., Eastern Illinois State Teachers College, 1935; A.M.,
 Columbia University, 1940; Graduate study, The Ohio
 State University, 1950-51. (1943)
- HELEN HAUGHTON, M.S. *Instructor*
 B.S., 1937, M.S., 1954, University of Illinois. (1956)
- MARGARET JAMES, M.S. *Instructor*
 B.S., 1948; M.S., 1957, University of Wisconsin. (1957)
- WINEVA C. DAVIS, M.A. *Instructor*
 B.S. in Ed., Northeast Missouri State College, 1932; M.A.,
 Colorado State College, 1958. (1960)

INDUSTRIAL ARTS

- WALTER ALLEN KLEHM, Ed.D.^o *Professor*
 B.A., North Central College, 1924; M.A., University of
 Illinois, 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. *Professor*
 B.S., East Texas State Teachers College, 1934; M.S., Ag-
 ricultural and Mechanical College of Texas, 1937; Ed.D.,
 University of Missouri, 1949. (1941)
- CHARLES ARTHUR ELLIOTT, Ed.D. *Professor*
 B.Ed., Eastern Illinois State Teachers College, 1931;
 M.Ed., 1946, Ed.D., 1953, University of Missouri. (1945)
- ROBERT B. SONDERMAN, Ed.D. *Associate Professor*
 B.S. in Ed., 1948; M.Ed., 1949, Ed.D., 1956, University of
 Missouri. (1956)
- CLIFFORD H. ERWIN, M.A. *Assistant Professor*
 B.S. in Ed., Northern Illinois State College, 1950; M.A.,
 Colorado State College of Education, 1951. (1956)
- ROBERT BATES THRALL, M.S. *Instructor*
 B.Ed., Eastern Illinois State Teachers College, 1932; M.S.,
 University of Illinois, 1938. (1956)
- WAYNE D. COLEMAN, M.A. *Instructor*
 B.S., 1952, M.A., 1953, The Stout Institute. (1957)
- RAYMOND GRIFFIN, M.S. in Ed. *Instructor*
 B.S. in Ed., 1950, M.S. in Ed., 1954, Eastern Illinois Uni-
 versity. (1958)

LABORATORY SCHOOL

- WILLIAM HENRY ZEIGEL, Ph.D. *Associate Dean,*
Teacher Education and Placement
 B.S., Kirksville State Teachers College, 1935; A.M., 1926,
 Ph.D., 1930, University of Missouri. (1937)
- HARRY JAMES MERIGIS, Ed.D. *Associate Professor*
and Director
 B.Ed., State University Teachers College, Plattsburg, New
 York, 1947; Ed.D., University of Oklahoma, 1954. (1954)

- LOUISE MURRAY, Ph.D. *Associate Professor and
Seventh Grade Supervisor*
B.A., University of Toronto, 1945; M.A., Teachers College,
Columbia University, 1949; Ph.D., Northwestern Univer-
sity, 1959. (1951)
- MYRTLE ARNOLD, A.M. *Assistant Professor and
Fourth Grade Supervisor*
B.S., University of Minnesota, 1930; A.M., George Pea-
body College for Teachers, 1935; Graduate study, Univer-
sity of Southern California, 1945-46. (1930)
- NANNILEE SAUNDERS, A.M. *Assistant Professor and
Third Grade Supervisor*
B.S., George Peabody College for Teachers, 1929; M.A.,
Columbia University, 1935; Graduate study, George Pea-
body College for Teachers, 1947-49. (1935)
- JESSIE MARTHA HUNTER, M.A. *Assistant Professor and
Supervisor of Penmanship*
A.B., 1931, M.A., 1932, Michigan State College; Grad-
uate study, Columbia University, 1935-36. (1937)
- MILDRED DOLE MORGAN, M.A. *Assistant Professor and
Director of Guidance*
B.S., University of Illinois, 1929; M.A. Columbia Univer-
sity, 1934. (1946)
- FLORENCE ESTALENE REID, M.A. *Assistant Professor and
Fifth Grade Supervisor*
B.A., Iowa State Teachers College, 1930; M.A., University
of Iowa, 1937. (On leave first half of year 1960-61)
(1946)
- LORENE ELIZABETH ZIEGLER, A.M. *Assistant Professor
and Sixth Grade Supervisor*
B.Ed., Illinois State Normal University, 1942; M.A., North-
western University, 1947; Graduate study, Columbia Uni-
versity, Fall semester, 1953-54, 1959-60. (1947)
- VELMA VALERA COX, M.Ed. *Assistant Professor and
Second Grade Supervisor*
B.S. in Ed., 1935; M.Ed., 1948, University of Missouri;
Graduate study, University of Missouri, 1957-58. (1948)
- VIRGINIA ANN TATE, M.Ed. *Assistant Professor and
First Grade Supervisor*
B.S. in Ed., 1940, M.Ed., 1951, University of Missouri;
Graduate study, University of Missouri, 1958-59. (1952)

- PAUL OSCAR GURHOLT, M.A. *Assistant Professor
and Eighth Grade Supervisor*
B.E., Wisconsin State College, Stevens Point, 1940; M.A.,
University of Wisconsin, 1953; Graduate study, Univer-
sity of Wisconsin, 1953-55. (1955)
- JAMES HENRY ROBERTSON, Ed.D. *Assistant Professor
and Supervisor of Strings*
B.S. in Ed., Southwest Missouri State Teachers College,
1937; M.A., State University of Iowa, 1944; Ed.D., Uni-
versity of Illinois, 1958. (1956)
- FRANK W. LANNING, Ed.D. *Assistant Professor
and Fifth Grade Supervisor*
B.A., 1948; M.A., 1950, Southern Methodist University;
Ed.D., North Texas State College, 1956. (1957)
- FLORENCE PRYBYLOWSKI, Ed.D. *Assistant Professor and
Supervisor of Girls Physical Education*
B.S., Wisconsin State College, LaCrosse, 1941; M.S., Uni-
versity of Michigan, 1944; Ed.D., Colorado State College
of Education, 1960. (1958)
- JOSEPH TURNER CONNELLY, M.Ed. *Assistant Professor
and Supervisor of Ninth Grade*
B.A., University of Kansas, 1950; M.Ed., University of
Illinois, 1952. (1958)
- FRED J. BOUKNIGHT, Ed.D. *Assistant Professor
and Supervisor of Instrumental Music*
A.B., Newberry College, 1940; M.M., Northwestern Uni-
versity, 1941; Ed.D., Teachers College, Columbia Univer-
sity, 1953. (1959)
- BETTY RUTH HARTBANK, M.S. *Instructor and Librarian*
B.S., 1954; M.S., 1955, University of Illinois. (1956)
- NORMAN J. BAUER, M.A. *Instructor and
Seventh Grade Supervisor*
B.S., Oshkosh State College, 1953; M.A., Northwestern
University, 1956. (1957)
- FRANCIS H. CRAIG, M.S. in Ed. *Instructor and
Eighth Grade Supervisor*
B.S., 1951, M.S. in Ed., 1955, Southern Illinois University.
(1957)
- PHILLIP M. SETTLE, M.F.A. *Instructor and
Supervisor of Art*
B.S. in Ed., Eastern Illinois State College, 1950; M.F.A.,
University of Illinois, 1953. (1957)

- MARY LOU ANDERSON, M.A. *Instructor and Four Year
Old Kindergarten Supervisor*
Ed.B., Southern Illinois University, 1941; M.A., George
Peabody College for Teachers, 1953. (1958)
- JOSEPH EDWARD CAREY, M.Ed. *Instructor and
Sixth Grade Supervisor*
B.A., 1950, M.Ed., 1953, University of Illinois. (1958)
- BARBARA J. FIFE, M.S. in Ed. *Instructor and
Supervisor of Art*
B.S. in Ed., 1955, M.S. in Ed., 1958, Eastern Illinois Uni-
versity. (1958)
- RAYMOND GRIFFIN, M.S. in Ed. *Instructor and
Supervisor of Industrial Arts*
B.S. in Ed., 1950, M.S. in Ed., 1954, Eastern Illinois State
College. (1958)
- HELEN H. INCL, M.Ed. *Instructor and
Second Grade Supervisor*
B.A., State University of Iowa, 1944; M.Ed., University
of Illinois, 1958. (1958)
- ANN ELIZABETH JACKSON, M.S. in Ed. *Instructor and
First Grade Supervisor*
B.S., Kansas State College, 1941; M.S., Southern Illinois
University, 1954. (1958)
- LOTTIE LEACH LEEDS, M.S. *Instructor and
Fourth Grade Supervisor*
B.S. in Ed, Eastern Illinois State College, 1940; M.S., In-
diana State Teachers College, 1955. (1958)
- ROBERT C. WEISS, M.S. *Instructor and Supervisor
of Boys Physical Education*
B.S., Wisconsin State College, LaCrosse, 1951; M.S., In-
diana University, 1954. (1958)
- JANTINA J. NOORMAN, M.S. *Instructor and
Supervisor of Vocal Music*
B.M., 1953, M.S., 1955, University of Illinois. (1959)
- PATRICIA ANNE WAINWRIGHT, M.A. *Instructor and
Supervisor of French*
A.B., Syracuse University, 1958; M.A., Middlebury Col-
lege, 1959. (1959)
- DONALD GEORGE GILL, M.Ed. *Instructor and
Assistant Director*
A.B., Illinois College, 1951; M.Ed., University of Illinois,
1955. (1960)

- GEORGIA BUTLER ADAMS, M.A. *Instructor and
Five Year Old Kindergarten Supervisor*
B.S., 1952, M.A., 1955, George Peabody College for
Teachers. (1960)
- N. GRETCHEN HIERONYMUS, M.A. *Instructor and
Supervisor of Music*
B.A., State University of Iowa, 1950; M.A., University
of Illinois, 1954. (1960)
- ANNA JANE ELLIS, M.A. *Instructor and
Supervisor of Physical Education*
B.A., Ohio Wesleyan University, 1952; M.A., University
of Michigan, 1960. (1960)
- JEANNE BUCK, M.S. *Part-Time Substitute Instructor
and Supervisor of English*
B.A., New York University, 1946; M.S., Boston Univer-
sity, 1955. (1960)
- EDNA MAKI KNISKERN, B.S. *Part-Time Faculty Assistant
and Supervisor of Biology*
B.S., Northern Michigan College, 1942. (1958)
- SHIRLEY COLEMAN, B.S. *Faculty Assistant and
Substitute Instructor of Home Economics*
B.S., Stout Institute, 1952. (1959)
- VIRGINIA S. ROUSE, B.Ed. *Faculty Assistant and
Substitute Third Grade Supervisor*
B.Ed., Eastern Illinois State College, 1947. (1960)
- BETTE L. JOHNSON, B.S. in Ed. *Faculty Assistant and
Substitute Supervisor of Fifth Grade*
B.S. in Ed., Eastern Illinois State Teachers College, 1940.
(1958)

LIBRARY

- ROSCOE FREDERICK SCHAUPP, Ph.D.^o *Professor*
A.B., University of Nebraska, 1926; M.A., 1929, Ph.D.,
1934, The Ohio State University; A.B.L.S., University of
Michigan, 1939. (1945)
- MARGARET LORENA EKSTRAND, A.M.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)

- LEE ANNA JEWELL SMOCK, A.M. *Assistant Professor*
 B.A., Bethany College, 1925; A.M., University of Kansas,
 1931; B.S. in L.S., University of Illinois, 1942. (1944)
- MARY ELIZABETH SCOTT, M.S. in L.S. *Assistant Professor*
 B.A. in L.S., 1935, B.A., 1936, University of Oklahoma;
 M.S. in L.S., Columbia University, 1943. (1948)
- BETTY RUTH HARTBANK, M.S. in L.S. *Instructor*
 B.S., 1954, M.S. in L.S., 1955, University of Illinois.
 (1956)
- PATRICK T. BARKEY, M.A. in L.S. *Instructor*
 B.A., Pomona College, 1948; M.A. in L.S., University of
 Michigan, 1949. (1960)
- LLOYD COMBS BINGHAM, M.A. in L.S. *Instructor*
 B.S., 1940, M.S. in Ed., 1945, Indiana State Teachers
 College; M.A. in L.S., George Peabody College for Teach-
 ers, 1960. (1960)
- JOHN FRANCIS BRADBURY, M.S.L.S. *Instructor*
 B.S., University of Rochester, 1954; M.S.L.S., Simmons
 College, 1955. (1960)

MATHEMATICS

- LAWRENCE ALBERT RINGENBERG, Ph.D.* *Professor*
 A.B., B.S. in Ed., Bowling Green State University, 1937;
 M.A., 1939, Ph.D., 1941, The Ohio State University.
 (1947)
- HOBART FRANKLIN HELLER, Ph.D. *Professor*
 B.S., Gettysburg College, 1924; A.M., 1931, Ph.D., 1940,
 Columbia University. (1931)
- DAVID JOHN DAVIS, Ph.D. *Professor*
 A.B., 1930, A.M., 1938, Miami University; Ph.D., Univer-
 sity of Michigan, 1950. (1950)
- LESTER RAYMOND VANDEVENTER, Ed.D. *Associate Professor*
 B.Ed., Eastern Illinois State Teachers College, 1938; M.S.,
 1941, Ed.D., 1954, University of Illinois. (1946)
- D. FERREL ATKINS, Ph.D., Pd.D. *Associate Professor*
 B.S. in Ed., Eastern Illinois State Teacher College, 1945;
 M.S., University of Illinois, 1946; Ph.D., University of
 Kentucky, 1950; Pd.D. (Honorary), Eastern Illinois State
 College, 1956. (1958)

- GERTRUDE HENDRIX, A.M. *Assistant Professor*
 A.B., DePauw University, 1926; M.S., (Education), 1930,
 A.M., (Mathematics) 1935, University of Illinois; Grad-
 uate study, University of Chicago, 1946-47. (On leave
 1960-61) (1930)
- ALPHONSO JOSEPH DIPIETRO, Ph.D. *Assistant Professor*
 B.A., West Liberty State College, 1947; M.S., West Vir-
 ginia University, 1949; Ph.D., George Peabody College for
 Teachers, 1956. (1959)
- HAROLD MARKER, M.S. *Part-Time Instructor*
 B.Ed., Eastern Illinois State Teachers College, 1934; M.S.,
 University of Illinois, 1938. (1954)
- CHARLES E. PETTYPOOL, JR., M.A. *Substitute*
Assistant Professor
 B.S. in Ed., Eastern Illinois State College, 1953; M.A.,
 Ohio State University, 1956. (1957)

MUSIC

- LEO J. DVORAK, Ph.D.° *Professor*
 B.A., B.M., 1932, Upper Iowa University; M.A., 1933,
 Ph.D., 1939, State University of Iowa. (1940)
- EARL WOODROW BOYD, Ph.D. *Professor*
 B.M., 1940, M.A., 1946, University of Wisconsin; Ph.D.,
 State University of Iowa, 1951. (1947)
- GEORGE STEVE WESTCOTT, Ph.D. *Professor*
 A.B., Adams State College (Colorado), 1946; M.A., 1947,
 Ph.D., 1949, State University of Iowa. (1949)
- CATHERINE ANN SMITH, D. Mus. *Associate Professor*
 B.M., 1947, M.M., 1948, Indiana University; D. Mus.,
 Florida State University, 1958. (1949)
- JOHN ROBERT PENCE, M.M.Ed. *Assistant Professor*
 B.P.S.M., Indiana University, 1942; M.M.Ed., Oberlin Col-
 lege, 1951; Graduate study, University of Illinois, 1957-58.
 (1951)
- JAMES HENRY ROBERTSON, Ed.D. *Assistant Professor*
 B.S. in Ed., Southwest Missouri State Teachers College,
 1944; M.A., University of Iowa, 1944; Ed.D., 1958, Uni-
 versity of Illinois. (1956)
- ALAN RICHARD AULABAUGH, Ph.D. *Assistant Professor*
 B.M., 1948, M.M., 1950, Northwestern University; Ph.D.,
 State University of Iowa, 1958. (1957)

- DONALD CLARKE TODD, M.M. *Instructor*
B.M., 1950, M.M., 1952, Northwestern University. (1957)
- JOHN N. MAHARG, M.M.E. *Instructor*
B.M.E., Capital University, 1942; M.M.E., Oberlin Col-
lege, 1952. (1958)
- JUNE D. JOHNSON, M.M. *Instructor*
B.S., Juilliard School of Music, 1949; M.M., University
of Kansas, 1950. (1960)
- MARY RUTH HARTMAN, M.M. *Part-Time Instructor*
B.M., Indiana University, 1959; M.M., University of Illi-
nois, 1960. (1960)

PHILOSOPHY

- STUART LEE PENN, Ph.D. *Associate Professor*
B.A., Wayne University, 1943; M.A., 1951, Ph.D., 1957,
Yale University. (1960)

PHYSICAL EDUCATION, MEN

- JOHN WILLIAM MASLEY, D.Ed.^o *Professor*
B.S. in Ed., Northern Illinois State Teachers College, 1946;
M.A., University of California, 1947; D.Ed., Pennsylvania
State College, 1950. (1952)
- MAYNARD O'BRIEN, Ed.D. *Professor*
B.S., Illinois Wesleyan University, 1931; M.S., 1946, Ed.D.,
1954, University of Illinois. (1946)
- WILLIAM HOLLAND GROVES, Ph.D. *Associate Professor*
B.Ed., Southern Illinois University, 1941; M.A., 1949,
Ph.D., 1952, State University of Iowa. (1951)
- ROBERT ALLEN CAREY, Pe.D. *Associate Professor*
B.S., LaCrosse, Wisconsin, State Teachers College, 1943;
M.S., University of Wisconsin, 1947; Pe.D., Indiana Uni-
versity, 1954. (1953)
- REX VIRGIL DARLING, P.E.Dir. *Assistant Professor*
B.Ed., Illinois State Normal University, 1939; M.S., 1946,
P.E. Dir., 1949, Indiana University. (1945)
- WALTER LUCIEN ELMORE, M.A. in Ed. *Assistant Professor*
A.B., Georgetown College, 1942; M.A. in Ed., University
of Kentucky, 1948. (1948)

- JOHN BERNARD HODAPP, Pe.D. *Assistant Professor*
B.S., Mankato State Teachers College, 1948; M.A., University of New Mexico, 1950; Pe.D., Indiana University, 1957. (1957)
- HAROLD OTTO PINTHER, JR., M.S. *Assistant Professor*
B.S., Central State College, Stevens Point, Wisconsin, 1950; M.S., University of Wisconsin, 1954. (1954)
- JACK KALEY, M.S. in Ed. *Instructor*
B.S. in Ed., 1951, M.S. in Ed., 1956, Drake University. (1957)
- RALPH A. KOHL, M.A. *Instructor*
B.S. in Ed., 1949, M.A., 1952, University of Michigan. (1957)
- ROBERT WILLIAM HUSSEY, M.A. *Instructor*
B.S. in Ed., Wisconsin State College, LaCrosse, 1949; M.A., Michigan State University, 1953. (1958)
- TOM KATSIMPALIS, M.A. *Instructor*
B.S. in Ed., Eastern Illinois University, 1952; M.A., University of Illinois, 1959. (1959)

PHYSICAL EDUCATION, WOMEN

- FLORENCE MCAFEE, Ed.D.^o *Professor*
B.A., The Pennsylvania State College, 1923; A.M., Columbia University, 1931; Ed.D., New York University, 1940. (1924)
- DOROTHY MAE HART, Ph.D. *Associate Professor*
B.S. in Ed., Southern Illinois University, 1946; M.S., University of Illinois, 1947; Ph.D., State University of Iowa, 1955. (1947)
- CHARLOTTE LAVERNE LAMBERT, Ph.D. *Associate Professor*
B.A., Evansville College, 1944; M.A., 1949, Ph.D., 1959, State University of Iowa. (1949)
- 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)

- JULIA RUTH DENHAM, M.A. *Assistant Professor*
B.A., William Smith College, 1936; M.A., Columbia University, 1945; Graduate study, New York University, 1959-60. (1953)
- MARTHA MARISE DAVES, M.A. *Assistant Professor*
B.S., Alabama College, 1944; M.A., New York University, 1946; Graduate study, New York University, 1952, 1959-60. (1955)
- GERTRUDE ANN MYERS, M.A. *Assistant Professor*
B.S., Texas Woman's University, 1950; M.A., University of Colorado, 1955; Graduate study, Indiana University, 1959-60. (1960)

PHYSICS

- GLENN QUENTIN LEFLER, Ph.D.* *Professor*
A.B., 1929, A.M., 1932, Ph.D., 1936, Indiana University. (1946)
- IRVIN LEE SPARKS, Ph.D. *Professor*
B.S., Central Missouri State College, 1943; A.M., 1948, Ph.D., 1951, University of Missouri. (1950)
- ROBERT CLINTON WADDELL, Ph.D. *Associate Professor*
B.S. in Ed., Eastern Illinois State College, 1947; M.S., University of Illinois, 1948; Ph.D., Iowa State College, 1955. (1948)
- PERCY SCOTT SMITH, Ph.D. *Associate Professor*
A.B., 1943, Ph.D., 1951, Cornell University. (1953)
- ARNOLD JOHN HOFFMAN, M.S. *Assistant Professor*
B.S., Eureka College, 1930; M.S., University of Illinois, 1932. (1945)

SOCIAL SCIENCE

- GLENN HURON SEYMOUR, Ph.D.* *Professor*
A.B., 1924, M.A., 1925, Ph.D., 1929, University of Illinois. (1929)
- CHARLES HUBERT COLEMAN, Ph.D.¹ *Professor*
A.B., George Washington University, 1924; A.M., 1926, Ph.D., 1933, Columbia University. (1926)

¹On disability leave as of February 1, 1961.

- DONALD RHODES ALTER, Ph.D. *Professor*
 B.S. in Ed., University of Missouri, 1920; A.M., Columbia
 University, 1924; Ph.D., University of Illinois, 1934.
 (1934)
- WILLIAM GERBING WOOD, Ph.D. *Professor*
 A.B., Illinois Wesleyan University, 1927; A.M., 1933,
 Ph.D., 1938, University of Illinois. (1938)
- RAYMOND ARTHUR PLATTI, Ph.D. *Professor*
 B.S., 1933. M.Ph., 1936, Ph.D., 1939, University of Wis-
 consin. (1946)
- WILLIAM DILWORTH MINER, Ph.D. *Associate Professor*
 A.B., Knox College, 1936; A.M., 1948, Ph.D., 1950, In-
 diana University. (1950)
- DONALD FRED TINGLEY, Ph.D. *Associate Professor*
 B.S. in Ed., Eastern Illinois State College, 1947; A.M.,
 1948; Ph.D., 1952, University of Illinois. (1953)
- PARLEY REX SYNDERGAARD, Ph.D. *Associate Professor*
 A.B., Westminster College, 1940; A.M., Washington Uni-
 versity, 1941; Ph.D., St. Louis University, 1951. (1956)
- GLENN ALLAN MCCONKEY, Ph.D. *Associate Professor*
 B.S. in Ed., Illinois State Normal University, 1928; A.M.,
 University of Iowa, 1936; Ph.D., University of Iowa, 1949.
 (1958)
- LAVERN MARSHALL HAMAND, Ph.D. *Assistant Professor*
 B.S., Illinois Wesleyan University, 1940; M.A., 1947,
 Ph.D., 1949, University of Illinois. (1957)
- RICHARD M. JELLISON, Ph.D. *Assistant Professor*
 B.S., Ball State Teachers College, 1948; A.M., 1949, Ph.D.,
 1952, Indiana University. (1958)
- EDWARD FRANKLIN COX, Ph.D. *Assistant Professor*
 A.B., 1949, A.M., 1950, Ph.D., 1957, Indiana University.
 (1960)
- LEONARD CLAIR WOOD, Ph.D. *Assistant Professor*
 B.S. in Ed., Pennsylvania State College, 1947; M.A., 1948,
 Ph.D., 1960, University of Pennsylvania. (1960)
- ROBERT C. TIMBLIN, M.A. *Assistant Professor*
 B.A., 1946, M.A., 1947, University of Illinois, Graduate
 study, University of Illinois, 1958-60. (1960)
- JOSEPH T. LAW, M.A. *Assistant Professor*
 B.S. in Ed., Southwest Missouri State College, 1915; B.A.,
 Drury College, 1915; M.A., University of Wisconsin, 1923.
 (1960)

ROBERT WAYNE STERLING, M.S. in Ed. *Instructor*
 B.S. in Ed., 1951, M.S. in Ed., 1953, Eastern Illinois State
 College. (1956)

SPEECH

JAMES GLENN ROSS, Ph.D.^{o2} *Professor*
 B.A., 1925, M.A., 1928, Ph.D., 1933, Ohio State Univer-
 sity. (1934)

EARNEST GLENDON GABBARD, Ph.D. *Associate Professor*
 A.B., Berea College, 1941; M.A., 1947, Ph.D., 1954, State
 University of Iowa. (1947)

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

JON JAMES HOPKINS, Ph.D. *Assistant Professor*
 B.Ed., Northern Illinois State College, 1941; M.A., North-
 western University, 1950; Ph.D., Pennsylvania State Uni-
 versity, 1961. (1956)

JOAN JACOBSON, Ph.D. *Assistant Professor*
 B.A., Morningside College, 1944; M.A., 1948, Ph.D. 1958,
 Syracuse University. (1958)

STEVEN M. BUCK, Ph.D. *Assistant Professor*
 B.A., 1954, M.A., 1955, State College of Washington;
 Ph.D., Purdue University, 1960. (1959)

JOHN E. BIELENBERG, M.A. *Instructor*
 B.S., Cartoll College, 1955; M.A., Northwestern Univer-
 sity, 1959. (1959)

MILDRED S. HOFACKER, M.A. *Substitute Instructor*
 B.A., 1940, M.A., 1941, Western Reserve University.
 (1960)

ZOOLOGY

WALTER MERRITT SCRUGGS, Ph.D., Pd.D.^o *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)

^{o2}On leave first half of year 1960-61. On disability leave as of April 20, 1961.

- 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. *Professor*
A.B., Yankton College, 1928; M.A., University of South
Dakota, 1931; Ph.D., University of Kansas, 1935. (1947)
- GARLAND TAVNER RIEGEL, Ph.D. *Professor*
A.A., Hannibal-LaGrange College, 1934; B.S., 1938, M.S.,
1940, Ph.D., 1947, University of Illinois. (1948)
- MAX BURTON FERGUSON, Ph.D. *Associate Professor*
B.A., Iowa State Teachers College, 1939; M.A., 1947,
Ph.D., 1950, State University of Iowa. (1950)
- VERNE BURTON KNISKERN, Ph.D. *Associate Professor*
B.S., 1947, M.S., 1948, Ph.D., 1950, University of Michi-
gan. (1950)
- LEONARD DURHAM, Ph.D. *Associate Professor*
B.S., 1949, M.S., 1950, Ph.D., 1955, University of Illinois.
(1955)
- HUGH CECIL RAWLS, Ph.D. *Associate Professor*
B.S., 1949, M.S., 1951, Ph.D., 1953, University of Ala-
bama. (1956)
- WILLIAM ELLIOTT MCCAUL, M.S. *Instructor*
B.A., Western Michigan University, 1954; M.S., Univer-
sity of Illinois, 1956; Graduate study, University of Illi-
nois, 1958-59. (1959)
- CATHERINE THOMAS SMITH, M.S. *Part-Time Instructor*
B.A., Willamette University, 1945; M.S., Cornell Univer-
sity, 1951. (1958)
- JOAN F. WHITE, Ph.D. *Part-Time Instructor*
A.B., University of Iowa, 1945; Ph.D., Bryn Mawr Col-
lege, 1953. (1960)

OFF-CAMPUS COORDINATORS OF STUDENT TEACHING

- MARQUITA L. IRLAND, Ed.D. *Professor*
in Home Economics
B.S., 1942, M.A., 1947, Michigan State College; Ed.D.,
Wayne State University, 1956. (1960)
- RALPH MARION PERRY, Ph.D. *Associate Professor*
in Foreign Languages
Ph.B., 1933, A.M., The University of Chicago, 1937; Ph.D.,
University of Illinois, 1949. (1957)

- GERTRUDE HENDRIX, A.M. *Assistant Professor
in Mathematics*
A.B., DePauw University, 1926; M.S., (Education), 1930,
A.M., (Mathematics) University of Illinois, 1935; Grad-
uate study, University of Chicago, 1946-47. (On leave
1960-61.) (1930)
- ROBERTA LEE POOS, A.M. *Assistant Professor in
English and Speech*
B.Ed., Illinois State Normal University, 1927; A.M., Uni-
versity of Illinois, 1935; Graduate study, University of
Illinois, 1954-1955. (1935)
- ARNOLD JOHN HOFFMAN, M.S. *Assistant Professor
in Physical Science*
B.S., Eureka College, 1930; M.S., University of Illinois,
1932. (1945)
- WINIFRED HENRIETTA BALLY, M.A. *Assistant
Professor in Women's Physical Education*
B.Ed., Illinois State Normal University, 1933; M.A., New
York University, 1937; Graduate study, New York Uni-
versity, 1951-52. (1946)
- WALTER L. ELMORE, M.A. in Ed. *Assistant Professor
in Men's Physical Education*
A.B., Georgetown College, 1942; M.A. in Ed., University
of Kentucky, 1948. (1948)
- CARY IRWIN KNOOP, M.F.A. *Assistant Professor in Art*
B.A., James Millikin University, 1950; M.F.A., Univer-
sity of Illinois, 1953. (1953)
- REX EDWARD RAY, M.S. in Ed. *Assistant Professor
in Industrial Arts*
B.S., Murray State College, 1949; M.S., Southern Illinois
University, 1954. (1956)
- JAMES HENRY ROBERTSON, Ed.D. *Assistant Professor
in Music*
B.S. in Ed., Southwest Missouri State Teachers College,
1937; M.A., University of Iowa, 1944; Ed.D., University
of Illinois, 1958. (1956)
- WALTER H. McDONALD, Ph.D. *Assistant Professor
in Geography*
B.S., 1946, M.S. in Ed., 1949, Southern Illinois University;
Ph.D., University of Illinois, 1953. (1958)
- ROBERT WAYNE STERLING, M.S. *Instructor in Social Science*
B.S. in Ed., 1951, M.S., in Ed., 1953, Eastern Illinois State
College. (1956)

- JANE LAHEY, M.S. Ed. *Instructor in Business*
B.S., 1947, M.S. Ed., 1950, University of Illinois. (1957)
- MARY I. FRANCIS, M.S. Ed. *Instructor in Business*
B.S. Ed., 1953, M.S. Ed., 1955, Southern Illinois University. (On leave 1960-61). (1959)
- CHARLES E. PETTYPOOL, JR., M.A. *Substitute Assistant*
Professor in Mathematics
B.S. in Ed., Eastern Illinois State College, 1953; M.A., Ohio State University, 1956. (1957)
- JACK ARTHUR REED, M.S. *Instructor*
in Biological Sciences
B.S., Oshkosh State College, 1951; M.S., University of Wisconsin, 1958. (1960)
- ROLAND DEAN SPANIOL, M.S. in Ed. *Instructor*
in Business
B.S. in Ed., 1953, M.S. in Ed., 1956, Illinois State Normal University. (1960)

DISABILITY LEAVE

- CHARLES H. COLEMAN, Ph.D. *Professor*
BRYAN HEISE, Ph.D. *Professor*
HARRY LOUIS METTER, Ph.D. *Professor*
J. GLENN ROSS, Ph.D. *Professor*
ERNEST L. STOVER, Ph.D. *Professor*
GILBERT T. CARSON, A.M. *Assistant Professor*

EMERITUS FACULTY

- ROBERT G. BUZZARD, Ph.D. *President Emeritus*
SIMEON E. THOMAS, LL.D.¹ *Professor Emeritus*
ANNIE LAURA WELLS, A.B., S.B. *Professor Emeritus*
CHARLES STOCKMAN SPOONER, Ph.D. *Professor Emeritus*
CHARLES P. LANTZ, Pd.D. *Professor Emeritus*
ROSE ZELLER, Ph.D. *Professor Emeritus*
SADIE O. MORRIS, Ph.D. *Professor Emeritus*
EDITH C. HAIGHT, Ph.D. *Professor Emeritus*
HANS C. OLSEN, Ph.D. *Professor Emeritus*
MARY JOSEPHINE BOOTH, B.L.S., Litt. D. *Associate*
Professor and Librarian Emeritus
EDITH E. RAGAN. *Assistant Professor Emeritus*
LENA B. ELLINGTON, A.M. *Assistant Professor Emeritus*

¹Deceased May 27, 1961.

EDITH LEVAKE, A.M.....	Assistant Professor Emeritus
LEAH STEVENS CASTLE, S.M.....	Assistant Professor Emeritus
RUTH CARMAN, M.A.....	Assistant Professor Emeritus
RUTH HOSTETLER, A.M.....	Assistant Professor Emeritus
HARRIET LOVE HERSHEY, M.S.....	Assistant Professor Emeritus
ETHEL HANSON STOVER, A.M.....	Assistant Professor Emeritus
GILBERTA COFFMAN	Instructor Emeritus
BLANCHE C. THOMAS.....	Registrar Emeritus

FACULTY ASSISTANTS

AUDREY FEDOR, A.B.....	Library
LUTHER R. GIBSON, B.S. in Ed.....	Physics
LUCILLE MCKENNA, M.A.....	Library
MARY B. SHULL, M.M.....	Women's Physical Education
VAN LOU P. TRANK, M.S.....	Reading Clinic

GRADUATE ASSISTANTS

JAMES D. ANDERSON, B.S. in Ed.....	Physical Education for Men
CHARLES H. BAIRD, B.S. in Ed.....	Business
DAVID BOYD, B.S. in Ed.....	Audio-Visual Center
JANICE HILL DAVIDSON, B.S. in Ed. ¹	Reading Clinic
RICHARD HARRISON, B.S. in Ed.....	Music
ROBERT L. HILLS, B.S. in Ed.....	Music
PHYLLIS KANNMACHER, B.S. in Ed. ²	Speech
JERRY LACE, B.S.....	Physical Education for Men
TRACY D. LEWIS, B.S.....	Physical Education for Men
JOHN LINDSTROM, B.S. in Ed.....	Art
DONALD E. MAGSAMEN, B.S. in Ed.....	Physical Education for Men
DAVID MCINROE, B.S. in Ed.....	Testing Services
THOMAS D. MORGAN, B.S.....	Physical Education for Men
LARRY OSELAND, B.S. in Ed.....	Speech
RUTH QUEARY, B.S. in Ed.....	Mathematics
VERA K. RAMSEY, B.S. in Ed.....	Art
DONNA RICCHIARDI, B. S. in Ed.....	Laboratory School
LYNNE E. ROBB, B.S. in Ed.....	Laboratory School
GAIL SHADWELL, B.S. in Ed.....	Speech
MARILYN STILGEBAUER, B.S. in Ed.....	Music
CALVIN STOCKMAN, B.S. in Ed.....	Education
ROBERT L. THOMPSON, B.S. in Ed.....	Industrial Arts
HOWARD UNTERBRINK, B.S. in Ed.....	Dean of Students
JAMES D. YOUNG, B.S. in Ed.....	Geography

¹Resigned January 20, 1961.²Resigned January 9, 1961.

COOPERATING TEACHERS AND ADMINISTRATORS

1960-61

ABL (BROADLANDS)

Fred O. Bohn, M.S.
 Superintendent
 Thomas E. Richardson, M.S.
 Principal
 Clyde O. McKinney, M.A.

ALTAMONT

Clyde C. Jenkins, M.S.
 Superintendent & Principal
 James Brackney, B.S.
 Assistant Principal
 William Wendling, M.S.

ARCOLA

Leon Sitter, Adv. Degree
 Superintendent
 Walter J. Forsyth, M.S.
 Principal
 Carroll Dunn, M.S.
 Kay Kleiss, B.S.
 Carolyn Wilson, B.S.

CASEY

Troy S. Pierce, M.A.
 Superintendent
 Fred A. Dale, M.S. in Ed.
 Principal
 George Cortelyou, M.Ed.
 Ralph Fitch, M.A.
 Jean Main, M.A.
 Frank Rossi, M.A.
 Forest Wildman, M.S.

CHARLESTON

C. J. Dintelman, M.S.
 Superintendent
 Marvin Smith, M.Ed.
 Principal
 Mervin Baker, M.S.
 Eloise Buffenmeyer, B.S.
 Ralph Coleman, M.M.
 Charles Compton, M.S.

Fred Elliot, M.M.
 Paul Foreman, M.S.
 Viola Hallock, M.S.
 Harold Hankins, B.S.
 Mary Hoffman, M.S.
 Ernest Jones, M.S.
 Willa Lane, M.S.
 Iris Peterka, B.A.
 Pierce Pickens, M.S.
 Glendora Plath, B.S.
 Lillian Robertson, B.S.
 Norman Strader, M.S.
 James VanDelinder, B.A.
 Lois Williams, M.S.
 Frank Wood, B.S.

CHRISMAN

Cecil E. Smith, M.S.
 Superintendent
 Leland H. Fish, M.S.
 Principal
 Mary Evens, B.S.

CUMBERLAND (TOLEDO)

Merill Moore, M.S.
 Superintendent
 Harry V. Lewis, M.S.
 Principal
 Sara L. Buchanan, M.S.
 William W. Waldrip, M.S.
 Kenneth Winkler, B.S.

DANVILLE

J. McLean Reed, Hon. Ph.D.
 Superintendent
 E. D. Milhon, M.S.
 Principal (HS)
 James O. Yeazel, M.S.
 Principal (Cannon)
 Harold J. Klamann, M.S.
 Principal (Lincoln)
 Myron C. Walker, M.S.
 Principal (Washington)
 Ed Fjrebaugh, B.S.

Christobel Bock, M.S.
Martin Zeiter, M.S.

EISENHOWER (DECATUR)

Murvil Barnes, M.S.
Principal
John Alexander, M.A.
Robert Bennett, M.A.
Charles Clark, M.S. in Ed.
Charles Galbreath, B.S.
Clete Hinton, M.A.
Robert W. Krebs, M.A.
Helen Piggott, B.A.
Donald L. Schwalbe, M.S. in Ed.
Otis Vaughn, M.A.
Gene Young, M.A.

LAKEVIEW (DECATUR)

David W. Beggs III, M.S. in Ed.
Principal
Vivian Barnes, B.S.
Charles Heath, M.A.
Melvin J. Hoffman, B.S. in Ed.
Mrs. M. K. Lamar, M.A.
Harold O. Petty, M.A.

MACARTHUR (DECATUR)

Lyle K. Musick, M.A.
Principal
Carter Caudle, B.S.
Robert L. Henderson, M.A.
Geraldine Hodson, M.A.
Mabel S. Rutherford, M.A.
Ida Shapiro, B.S.

ROOSEVELT JHS (DECATUR)

Carl R. Clapp, M.A.
Principal
Lucille Hoendorf, B.S. in Ed.

STEPHEN DECATUR HIGH

C. O. Traylor, M.A.
Principal
Doris S. Hudson, M.A.
Franklin Kenny, B.S.

WOODROW WILSON JHS
(DECATUR)

Charles Bateman, Ph.D.
Principal
Merrit Pease, M.A.
Lester J. Grant, M.A.
Superintendent
Norman A. Gore, M.A.
Ass't. Superintendent

EAST RICHLAND (OLNEY)

Lester E. Purdy, M.A.
Superintendent
Frank B. Godeke, M.A.
Principal
Dolly McFarland, M.S.
James A. McWilliams, M.S.
Doris Mounts, B.A.
Marshall Provines, M.S.
Ilene Ridgely, M.S.
John Scanavino, M.S. in Ed.
Leo Sliva, M.A.

EFFINGHAM CENTRAL JHS

Raymond H. Lane, M.S.
Superintendent
Ross W. Phillips, M.S.
Principal
Ruth Brissenden, B.S.

EFFINGHAM

Harold E. Voyles, M.S.
Principal
B. Brad Arney, M.S. in Ed.
Don Calvert, B.S.
Pat Frese, M.S.
Joseph F. Green, M.A.
Monte Groothuis, B.S.
Jack Klosterman, B.S.
James Moore, M.A.
William Puckett, B.S.

KANSAS

Eldred Walton, M.S. in Ed.
Superintendent
Eldon Wickline, M.S.
Principal

Tressa Bennett, M.S. in Ed.
Marilyn Oglesby, M.S. in Ed.

PARKVIEW JHS

(LAWRENCEVILLE)

Harry T. Keen, M.A.
Superintendent
Vearl Payne, M.S.
Principal
Hazel McKinney, B.S. in Ed.
Frank Supinie, B.S.

LAWRENCEVILLE

H. A. Dollahan, M.A.
Principal
William Blair, M.A.
Mary Christmas, B.S.
Joe Fearheiley, A.B.
Virginia Hanna, M.S.
A. E. Hortin, M. A.
Robert McCarty, M.S. in Ed.
Gerald Pierson, M.Ed.
J. P. Sivert, M. S.
Rolland Wagner, M.S.
Woodrow Wesley, M.S.
Leslie Wright, M.S.

MARSHALL

Charles A. Bush, M.S.
Superintendent
E. J. Harrington, M.S.
Principal
Mildred R. Bush, B.S.
Mildred Hutchens, M.S.
Theodore Kallas, M.S.
Robert Morris, B.S.

MATTOON CENTRAL JHS

Virgil H. Judge, M.A.
Superintendent
Roy E. Sheppard, M.A.
Principal
Dorothy Greathouse, B.S.
Robert Sink, B.S.

MATTOON JEFFERSON JHS

Jack O. Smith, A.M.
Principal
Richard Foster, M.S.
Edna M. Kizer, B.S.
Helen Monroe, B.S.
Lois Nelson, B.S.
Doris Rhodes, B.S.

MATTOON

H. A. Clawson, M.S.
Principal
George Allison, M.S.
Florine Bowman, M.A.
Dorothy Bratton, A.M.
Roy A. Colin, A.M.
Dorothy Cooper, B.S.
Gerald Ferguson, M.S.
Harry E. Gaines, B.S.
Obed Henderson, M.S.
John Huffman, B.S.
Howard Johnson, M.S.
Harold Kottwitz, M.S.
Oren Lackey, M.S.
Edward Lash, M.S.
James Mitchell, M.S.
Betty Morris, M.Ed.
Charles Oyler, B.S.
Emily Smith, M.A.
Walter Storm, M.S.
Clark Sullivan, M.A.
William H. Swearingen, B.S.
Marguerite Turner, B.S.
Linda Wattles, B.S.
Duane Welton, B.S.
Grace Whitesel, M.S.

MONTICELLO

W. E. Baird, M.S. in Ed.
Superintendent
Don Pratt, M.S. in Ed.
Principal
Charles Paoli, M.S. in Ed.

MOWEAQUA

M. J. Corby, M.S.
Superintendent

M. W. Diebert, M.S.
Principal
Thomas E. Boyd, M.S.

NEOGA JHS

L. K. Voris, M.S. in Ed.
Superintendent
Jean H. Manuell, M.S. in Ed.
Principal
Edna McKinney
Virginia Parrett, B.S. in Ed.

NEOGA

Ralph R. White, M.S. in Ed.
Principal
Richard L. Greene, M.A. in Ed.
John Luallen, B.S. in Ed.
Robert McIntyre, B.S. in Ed.
Agnes Voris, B.S. in Ed.

NEWTON

H. E. Wright, M.S.
Superintendent & Principal
Lorris Bailey, M.S.
Frank Chizevsky, A.B.
Emery Gifford, M.A.
Marie Green, M.A.
Maurice Walworth, M.A.

OAKLAND

John Barger, Ed.M.
Superintendent & Principal
Anita Brown, B.S.

PALESTINE

Randall M. Highsmith, M.S.
Superintendent
R. D. Pound, M.S.
Guidance Director
O. J. Poynter, M.S.

PANA

Virgil R. Wheatley, M.S.
Superintendent
John R. Coil, M.S.
Principal

Richard Olmstead, M.S.
Donald L. Pyle, B.S.

PARIS

John Stabler, M.S.
Superintendent
John P. Allen, M.S.
Principal
Anna L. Brock, B.S.
Edward T. Day, M.S.
John H. Eggleston, M.S.
Nelle Jenkins, A.B. in Ed.
John C. Gibson, M.S.
Norma Kerrick, M.A.
Imogene Kolkhorst, B.S.
William Morris, B.S.
Mary I. Riedell, B.A.
H. D. Sweeley, B.S.
ROBINSON HS & JHS

Forest H. Shoulders, M.S.
Superintendent
Carl E. House, M.S.
Principal
Merle Crosby, M.A.
Rue Foe, M.S.
Junia F. Gill, M.S.
Larry Hart, B.S.
Harriet S. Koopmann, M.S.
Harold Mieure, M.S.
Lynda L. Murphy, B.S.
Heleen M. Price, M.A.
Robert Sinclair, M.S.
Glenadine Weaver, M.S.

PAXTON

Charles C. Newman, M.A.
Superintendent
Thompson Shields, M.S.
Principal
Jean Coopera, M.S.

SHELBYVILLE

J. C. Deaton, M.S.
Superintendent
C. R. Fegley, M.S.
Principal
Allyn Allen, M.S.

M. H. Brown, M.S.
 Leonard Burt, M.S.
 Alice Crouch, M.S.
 U. L. Evans, M.S.

SPRINGFIELD

Donald W. Dunman, D.Ed.
 Superintendent
 Warren L. Evenson, Ph.D.
 Principal
 Greta Lawrence, M.A.

SULLIVAN

Marvin Rice, M.S.
 Superintendent
 Henry Roehrich, M.A.
 Principal
 Robert Calvin, B.S. in Ed.
 J. Harold Jones, M.A.

STEWARDSON-STRASBURG

Lloyd T. Elam, M.S.
 Superintendent
 Donald P. Harrison, M.S.
 Principal
 Kenneth Knop, M.S.
 John Middlesworth, M.S.

TAYLORVILLE

Forest L. DeWeese, M.S.
 Superintendent
 Carl Dillow, M.S.
 Principal
 Verlin Bundy, M.S.
 Dorothy D. Drennan, B.S.
 James Lovin, M.S.
 Harold Sherline, M.S.
 Ada Songer, M.S.

Assunta Teodori, M.A.
 Philip Martin, M.A.

TUSCOLA

J. H. Hammack, M.A. in Ed.
 Superintendent
 Charles B. Whalen, M.S. in Ed.
 Principal
 Bill Butkovich, M.S. in Ed.
 Warren Lionberger, M.Ed.
 G. E. Maloney, M.S. in Ed.
 Donald Rumley, Ed.M.

VANDALIA

G. V. Blythe, M.S.
 Superintendent
 William E. Wells, M.A.
 Principal
 Gilbert Ragsdale, M.Ed.
 Ronald Robinson, M.A.
 Donald Schnake, B.S.

VILLA GROVE

G. G. Gaines, M.S.
 Superintendent
 Bill Crum, M.S.
 Principal
 Russell Ghere, B.S.
 Glen Hardin, M.S.
 Kenneth Tucker, M.S.
 Leslie Wolfe, M.S.

WINDSOR

J. Russell Curry, M.S.
 Superintendent
 Orris A. Seng, M.S.
 Principal
 Robert Buchanan, M.S.
 Glen L. Thompson, M.Ed.

I. GENERAL INFORMATION

OBJECTIVE

The preparation and improvement of teachers is the major function of Eastern Illinois University. The philosophy prevails that the program should be directed toward helping young people become educated persons. This is equally true of those who follow the curricula leading to certification as teachers and those who seek a strong non-professional or pre-professional education.

RATING

Eastern Illinois University is a member of the American Association of Colleges for Teacher Education and is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary teachers, secondary teachers, and school service personnel. It has been an accredited college in the North Central Association of Colleges and Secondary Schools since 1915. It is an institutional member of the American Council of Education.

LOCATION

Charleston, county seat of Coles County, is located in east-central Illinois on highways 130 and 16. New Federal Highway 17 (four lanes) is under construction and will connect Charleston with Mattoon. Ozark Airlines furnish flights daily to and from Chicago and St. Louis from Coles County airport. The city has a population of 10,500.

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.

In response to changing demands, Eastern Illinois Normal School became, successively, Eastern Illinois State Teachers College (1921), Eastern Illinois State College (1947), and Eastern Illinois University (1957).

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.

In 1954 the Teachers College Board authorized the preparation

of curricula leading to the degrees B.A. and B.S. without preparation for teaching. The first degree under this authorization was conferred in June, 1955.

BUILDING AND GROUNDS

The Campus. The grounds cover an area of two hundred and thirty-eight 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, 1947, and 1957.

Burgner Ten Acres. A plot of wooded land in Coles County was deeded to the University in 1955 by Mrs. Helen Burgner Douglas of Mattoon in memory of her parents. It is used for nature study by faculty and students.

Livingston C. Lord Administration Building (Old Main). This three-story structure houses administrative offices, classrooms for the business, English, foreign language, and mathematics departments, and the "Old Auditorium."

Pemberton Hall. This stone structure, finished and occupied in 1909, contains rooms for ninety-three women, a dining room, and spacious living rooms. An addition to house 111 women is under construction.

Francis G. Blair Hall. This building is occupied by the departments of education and social science and by the audio-visual center. The building was named in 1958 for Francis G. Blair, for many years Superintendent of Public Instruction, and the first Director of the Eastern Training School.

Practical Arts Building. This building furnishes facilities for students who wish to specialize in industrial arts or home economics.

Charles Philip Lantz Gymnasium. This building contains a men's gymnasium with bleacher capacity of approximately two thousand, a women's gymnasium, classrooms, quarters for the University Health Service, and rooms for corrective gymnastics and the dance.

Science Building. Completed in 1939, this building contains classrooms and laboratories for the departments of botany, chemistry, geography, physics, zoology and health education.

The Mary J. Booth Library. The University Library offers facilities for study and recreation. About 110,000 books and over 750 current magazines are available for use by students and faculty;

in addition, there are approximately 18,000 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 to students on a regular schedule. There are frequent exhibitions of paintings and craft work in the Art Gallery.

Lincoln Hall and Douglas Hall. Housing and boarding 160 men students each, these residence halls were opened in September, 1952.

North House and South House. North House and South House are two ranch-type structures planned for demonstrating home management as a part of the home economics curriculum.

Robert G. Buzzard Laboratory School. A \$2,000,000 campus laboratory school for kindergarten through grade nine was completed in 1958. The building is named for the second president of the University.

University Union. The University Union contains offices, a cafeteria, the Panthers' Lair Snack Bar, a ballroom, lounges, and recreation facilities.

Ford, McKinney, and Weller Halls. These residence halls for 450 women students are named for the late Ellen Ford, a former teacher of Latin and Dean of the College, the late Isabel McKinney, formerly Head of the Department of English, and Miss Annie Weller, Emeritus Head of the Department of Geography.

University Apartments. Living facilities for married students are provided by a new housing unit of sixty apartments located on Terrace Lane at the south edge of the campus.

Fine Arts Center. A contemporary building, housing the departments of music, speech and art, was completed in 1959. The building contains an up-to-date "little theatre," numerous practice and rehearsal rooms for music, and studios and laboratories for the art and speech departments.

ADMINISTRATIVE ORGANIZATION

The Teachers College Board is charged by legislation with responsibility for the general management of Eastern Illinois University and three similar institutions. In turn the board vests administrative authority and responsibility with a President at each school.

At Eastern the President works through four major administrative officials. The Dean of the Faculty has responsibility for all instructional activities. The Dean of Students administers activities

related to the broad social program. The Director of Business Affairs handles all business matters and has responsibility for the physical plant. Each of these officials has a staff with certain duties prescribed in the *Manual of Administrative Organization*. The fourth official is the Director of Regional Services who works with the President in maintaining desirable relations between the university and the general public, including alumni. The Director of Regional Services also assists the President as a staff officer.

The University has twenty departments, most of which offer majors. Each is administered by a Department Head serving under the Dean of the Faculty. There are no separate colleges or schools.

DIVISION OF THE YEAR

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

II. STUDENT LIFE AND ACTIVITIES

LIVING ACCOMMODATIONS

Students are required to live in University-registered housing except when living at home or with relatives, or when special written permission has been secured from the Housing Committee through the Director of Housing. It is understood that when a student rents a room in a residence hall, a University apartment, or a registered house, he or she agrees to comply with the existing rules and regulations.

University-registered rooms are rented by the quarter with the rates depending upon the type and location. (For rates, in the residence halls, see section on student expenses and financial aid, page 58.

Applications for space in the University residence halls may be made to the Director of Housing prior to notification of admission to the University. Students are urged to apply at the earliest possible date. Application for space or assignment to a room does *not* constitute admission to the University.

Applications for the University Apartments may be secured from the Director of Housing. Students desiring to live in University-registered off-campus rooms may secure lists of housing at the Office of the Director of Housing. They may then contact the owner of the house and reserve their rooms.

EASTERN'S RESIDENCE HALLS.

Residence halls for women are:

Pemberton Hall
Ford Hall
McKinney Hall
Weller Hall

Residence halls for men are:

Lincoln Hall
Douglas Hall

HOUSING FOR MARRIED STUDENTS. Housing for married students consists of 60 new and modern units, located on Terrace Lane at the south end of the campus. The 24 two-room apartments and 36 one and one-half-room apartments are each provided with sofa bed, chairs, dinette set, corner tables and other items of efficiency equipment. Electricity, heat, hot water, T.V. antenna outlets, washers, etc. are furnished by the University. To occupy an apartment, a person must be married, living with his family, and enrolled at Eastern.

A number of old Campus City units will be maintained for an

indefinite period. To be eligible for these apartments, a family should have two or more children.

Application should be made to the Director of Housing.

SERVICES TO STUDENTS.

HEALTH SERVICE. The Health Service is located in the Charles Philip Lantz Gymnasium. It renders emergency medical and surgical care, supervises the periodic physical examinations, and has general oversight of the health conditions of the University community. The staff consists of a physician, two nurses and a secretary.

All services provided by the Health Service are covered by student activity fees. All full-time students are also required to carry health insurance which covers more extensive medical care than provided by the Health Service and also for hospitalization.

The Health and Hospitalization Board, composed of faculty and students serves as an advisory group to the administration in determining regulations pertaining to the health welfare of the University community.

STUDENT EMPLOYMENT. The Dean of Men and Dean of Women receive applications for part-time employment and assist students in finding work at the University and in the city. See page ?? for details.)

PLACEMENT BUREAU. Registration with the Placement Bureau is prerequisite to graduation for all degree candidates. The Placement Bureau seeks to help competent Eastern graduates secure positions for which they are qualified and furnishes prospective employers with pertinent information needed by them in considering applicants. Placement services are free to students who qualify.

TEACHER PLACEMENT SERVICES are available to undergraduates who have been in attendance at Eastern for a year, who have been admitted to a teacher education curriculum, and have attained senior status. Students working toward the M.S. in Education at Eastern may register with the Bureau after attending for one term. Alumni may re-register with the Bureau upon payment of a fee of \$1.00. The University maintains a follow-up service through a program of visits, reports from teachers, and progress reports from supervising officials of schools in which Eastern's graduates have been placed.

INDUSTRIAL AND BUSINESS PLACEMENT SERVICES are available to B.A. and B.S. degree candidates in securing positions for which they are qualified. The Bureau furnishes to prospective employers the information they need in considering applications for such positions.

READING CLINIC. The Reading Clinic is located on the ground floor of Pemberton Hall. Services of the 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 University reading program, some children, usually selected from the campus elementary school, are accepted for corrective work in reading. Junior, senior, and graduate students 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 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 University students, Laboratory 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 people under supervision.

COUNSELING CENTER. The Counseling Center, located in Old Main, is staffed by trained counselors to assist University students in matters pertaining to vocational choice, personal and social adjustment and educational development. Appointments may be made in the Office of the Dean of Men.

TESTING AND PSYCHOLOGICAL SERVICES. Testing and psychological services are available to University students and to the schools in the area. Interest and personality inventories as well as aptitude and intelligence tests are administered and evaluated free of charge not only to University students but to pupils who are referred by school officials.

Consultative services are available to schools desiring to set up testing programs; considerable test material is available for examination.

The Testing Service has an I.B.M. test scoring machine and the scoring of standardized tests is a service that may be arranged for by area schools. The cost for such services is nominal.

For detailed information write Dr. Donald A. Rothschild, Director of Testing Services.

THE LIBRARIES. Booth Library, named in honor of Dr. Mary J. Booth, Librarian, 1904-1945, was opened for use in September, 1950. It provides a comprehensive collection of materials for instructional and recreational purposes. The library has a total of 110,000 volumes, plus 3,700 cataloged items in the recorded music collection. These figures do not include a substantial number of uncataloged pamphlets, pictures, and prints. The library receives cur-

rently 1,000 different periodicals. A Browsing Room for general reading is provided; the Franklyn L. Andrews 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 Paul Turner Sargent Art Gallery. The Library Science department has as its primary function the preparation of school librarians; in addition, it teaches the orientation course, in the use of the library (Library Science 120), required of all entering students. The Laboratory School Library, a part of the general University library system, houses a fine collection of materials suitable for the elementary and junior high school levels; besides serving the needs of the Laboratory School, it plays an essential role in the preparation of school librarians. Prospective teachers are urged to familiarize themselves with the books and periodicals in this collection, and with its method of operation.

Basic textbooks for University courses are rented 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 may be purchased by the student as needed. Textbooks may also be purchased any time during the quarter with the exception of the first two and the last two weeks of the quarter. Used books are sold to students at a 10 percent discount off the cost price for each time the book has been checked out, as indicated by the record on the book card.

Rented 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. A fine of \$1.00 is imposed if the student's record in this library is not clear.

AUDIO-VISUAL CENTER. The Audio-Visual Center in Blair Hall operates as an educational service to faculty and students. Audio-visual teaching materials such as films, filmstrips, and recordings are available both from a small on-campus library and from rental sources. Projection service is provided. Slides, photographic copies, and other simple graphic materials may be produced for individual instructors. Consultant service is offered to University faculty, prospective teachers and to schools in the area.

BOOKSTORE. The University Bookstore is located in the Temporary Classroom Building and is owned and operated by the University. It is maintained to enable students to purchase supplies and other equipment needed for laboratory and class work.

THE ARTISTS SERIES. Each year the University offers an entertainment course. Individuals and groups of national reputation in

music, drama and the dance are presented; these programs bring cultural entertainment for students and for area residents who purchase tickets.

A student-faculty Artists Series Board arranges the series, keeping in mind the preferences of students and their general educational needs. Students are admitted to these events without cost, a privilege gained by the payment of the activity fee at registration.

THE LECTURE SERIES. The University offers a series of several lectures each year by well-qualified speakers on topics of general interest. The lecturers are selected by a board of faculty members. Funds for the series furnished by the University are often supplemented by grants from various foundations. Various departments also engage lecturers in their fields of specialized interest.

SOCIAL LIFE

In recognition of the value of a wholesome social life as an integral part of college, the development of a broad program of social activities has been encouraged at Eastern. Some of these activities are carried on by the many campus organizations and others are sponsored by and for the University as a whole.

Student social activities are under the general supervision of the Dean, Student Personnel Services and members of his staff.

ORIENTATION WEEK. A period preceding upper-class registration in the fall quarter is set aside for acquainting new students with the University. All undergraduates enrolling at Eastern Illinois University for the first time, whether as first quarter freshmen or as students with advanced standing, are required to be present. Activities are planned to familiarize the new student with the University in order that he may understand its rules and regulations, and become aware of the educational, social, and recreational opportunities it provides. Advisors and counselors also offer assistance to the student at this time in evaluating his abilities and interests as well as in planning the details of training necessary for his particular vocational choice.

UNIVERSITY UNION. The University Union, financed by student fees and other donations, houses a cafeteria, snack bar, game rooms, ballroom, lounges and offices for the Director, Director of Food Services and the Student Senate.

The Director, assisted by a Union Board composed of students and faculty, plans a variety of activities for the student body. Included are weekly dances, receptions, recitals, billiards, bridge and chess contests and instruction.

Organizations wishing to use University facilities for meetings schedule these facilities at the University Union desk.

STUDENT ORGANIZATIONS

Student organizations form the basis for the University activity program on Eastern's campus. The Office of the Dean, Student Personnel Services has the responsibility for official University approval of all student organizations after consultation with the Student Senate.

Student organizations are varied so as to provide every student with an opportunity to participate in activities which appeal to his interests.

STUDENT SENATE.

The Student Senate is the representative governing body for all students. The officers are elected by popular vote; members by departmental and social organizations.

The Senate is concerned with matters pertaining to student welfare, student activities and student participation in University planning and administration. It takes responsibility for such events as Homecoming, Parents' Day, campus elections and pop concerts. Student members of the student-faculty boards are appointed by the President on nomination by the Student Senate. These students work in conjunction with the faculty members appointed by the President on nomination of the Committee of Fifteen. The student-faculty boards control much of the University's extra-curricular program.

DEPARTMENTAL CLUBS

Amateur Radio Club
American Chemical Society
Ahmoweenah Writers
Botany Club
English Club
French Club
German Club
Home Economics Club
Industrial Arts Club
Management Forum
Marketing Club
Mathematics Club
Men's Physical Education Club
Music Education Club
Physics Club
Players
Radio Guild
Secretarial Club
Spanish Club
Women's Physical Education Club
Zoology Seminar

MUSIC ORGANIZATIONS

Band
Cecilians
Chorus
Collegians
M.E.N.C.
Men's Glee Club
Orchestra

RELIGIOUS ORGANIZATIONS

Christian Disciple Student Fellowship
Christian Science Fellowship
EUB Religious Group
Gamma Delta
Intersity Campus Fellowship
Methodist Student Movement
Newman Club
Presbyterian Student Fellowship
Roger Williams Baptist Fellowship

ATHLETIC ORGANIZATIONS

Varsity Club
Women's Athletic Association

RESIDENCE HALL COUNCILS

Campus City Council
Douglas Hall Council
Ford Hall Council
Lincoln Hall Council
McKinney Hall Council
Pemberton Hall Council
University Apartments Council
Weller Hall Council

SERVICE ORGANIZATIONS

Alpha Phi Omega

SPECIAL GROUPS

Association for Childhood Education
Independent Student Association
Interdepartmental Forum
Student Education Association
Student Wives' Organization
Vet's Club
Young Democrats
Young Republicans

SOCIAL FRATERNITIES. The six fraternities on Eastern's campus are designed for the educational and social development of students. The following fraternities are represented:

Alpha Kappa Lambda. Rho Chapter of this national social fraternity was installed March 24, 1957.

Chi Nu, a local fraternity, was formally recognized by the University on May 9, 1958. This fraternity was formerly Tau Chapter of Kappa Sigma Kappa.

Phi Sigma Epsilon. Delta Chapter of this national social fraternity was installed March 4, 1930.

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.

Sigma Tau Gamma. Alpha Alpha Chapter of this national social fraternity was installed in November 1941. From 1929 to 1941 it existed as Fidelis, a local fraternity.

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.

SOCIAL SORORITIES. The University has four social sororities. They are:

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 charter members.

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. In September 1956, Delta Sigma Epsilon, Alpha Nu Chapter, was merged with Delta Zeta.

Sigma Kappa. Gamma Mu Chapter, a national sorority, was installed April 7, 1956, with thirty charter members.

Alpha Gamma Delta. Beta Iota Chapter, a national sorority, was installed March 2, 1960, with the members of Psi Omega, a local sorority, initiated as charter members.

INTERFRATERNITY COUNCIL. The Interfraternity Council, composed of three members from each fraternity, aids in establishing policies relating to the fraternity system on Eastern's campus. In conjunction with Panhellenic Council, it plans and develops the annual Greek Week program.

PANHELLENIC COUNCIL. The Panhellenic Council is composed of two elected representatives from each sorority. It deals with problems confronting the sororities, establishes rules for rushing, cooperates with the Interfraternity Council in planning all-Greek affairs on the campus, and awards a cup each year to the sorority maintaining the highest academic standing for the preceding year.

NATIONAL HONORARY FRATERNITIES. *Kappa Delta Pi.* Beta Psi Chapter of Kappa Delta Pi, an international honor society in education, was installed January 2, 1931.

Sigma Tau Delta. Upsilon Gamma Chapter of Sigma Tau Delta a national professional English fraternity, was installed February 15, 1932.

Epsilon Pi Tau. Iota Chapter of Epsilon Pi Tau, a national honorary fraternity in industrial arts, was installed May 25, 1933.

Kappa Mu Epsilon. Illinois Beta Chapter of Kappa Mu Epsilon, a national professional fraternity in mathematics, was installed April 11, 1935.

Theta Alpha Phi. Illinois Epsilon Chapter of Theta Alpha Phi, a national honorary fraternity in dramatics, was installed June 6, 1938.

Kappa Pi. Chi Chapter of Kappa Pi, a national honorary art fraternity, was installed May 15, 1939.

Pi Kappa Delta. Illinois Sigma Chapter of Pi Kappa Delta, a national honorary fraternity in forensics, was installed May 4, 1940.

Pi Omega Pi. Alpha Chi Chapter of Pi Omega Pi, a national honorary fraternity in business education, was installed May 26, 1940.

Gamma Theta Upsilon. Rho Chapter of Gamma Theta Upsilon, a national professional geography fraternity, was installed July 9, 1940.

Pi Delta Epsilon. The Eastern Illinois University Chapter of Pi Delta Epsilon, a national honorary fraternity in journalism, was installed May 18, 1949.

Phi Sigma Mu. Theta Chapter of Phi Sigma Mu, a national honorary fraternity in music education, was installed November 4, 1950.

Kappa Omicron Phi. Alpha Theta Chapter of Kappa Omicron

Phi, a national honorary professional fraternity in home economics, was installed May 29, 1950.

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.

Phi Alpha Theta. Epsilon Mu Chapter of Phi Alpha Theta, national history honor society, was installed May 12, 1955.

Alpha Epsilon Rho. Alpha Lambda Chapter of Alpha Epsilon Rho, a national honorary fraternity in radio and television, was installed April 13, 1955.

Phi Delta Kappa. The Delta Omega Chapter of Phi Delta Kappa, an international graduate fraternity for men in education, was installed on October 3, 1959.

Beta Beta Beta. Gamma Theta Chapter of Beta Beta Beta, a national honorary fraternity in biological science for majors in botany and zoology was installed January 27, 1961.

STUDENT ACTIVITIES

STUDENT-FACULTY BOARDS. Several student activities on Eastern's campus are supervised cooperatively by the student and the faculty by means of student-faculty boards. Members of these boards are appointed by the President with nominations of faculty members coming from the Committee of Fifteen and nominations of student members coming from the Student Senate. The Dean, Student Personnel Services, or his representative and the President of the Student Senate are ex officio members of all boards. The following boards have been established:

- Apportionment Board
- Artists Series Board
- Health and Hospitalization Board
- Men's Athletic Board
- Music Activities Board
- Speech Activities Board
- Student Publications Board
- Traffic and Safety Board
- University Union Board
- Women's Athletic Board

ACTIVITY FEES. Activities under the supervision of student-faculty boards receive major support from activity fees charged all students. The allocation of the money from the activity fees

is made by the Apportionment Board, after consideration of budgets presented by the several major activities supported in whole or in part by the fund.

FORENSICS. Opportunities to participate in extemporaneous speaking, oratory, discussion, and debate are available to all students at Eastern Illinois University.

Off-campus activities for the year 1960-61 included the Michigan State University "Group Action" tournament and debate tournaments at Ball State Teachers College, Bradley University, Illinois State Normal University, Indiana State Teachers College, and Northern Illinois University. Eastern students also competed in the annual championship tournament sponsored by the Illinois Intercollegiate Oratorical Association and in the national convention at Oklahoma State University in Stillwater, Oklahoma sponsored by Pi Kappa Delta.

On February 4, 1961, the Department of Speech sponsored Eastern's twenty-fourth annual debate tournament. Other local activities included radio broadcasts and appearances at neighboring high schools and service clubs.

Intercollegiate forensic affiliations include the Illinois Intercollegiate Debate League, the Illinois Intercollegiate Oratorical Association, the American Forensic Association, and Pi Kappa Delta.

DRAMA. Plays are presented by The Players, a dramatics organization sponsored by the Speech Department. Three major productions are presented annually. Tryouts for parts in most of these plays are open to all students, regardless of academic affiliation. The Players offer opportunities for practical experience in every phase of theatre art and enable students to produce a series of one-act plays.

A "Little Theatre" is part of the new Fine Arts Center. The theatre is designed to seat some 420 persons and includes a scene workshop and a sixty-circuit stage lighting system.

RADIO. Radio programs are produced daily in the University studio by the Radio Guild, an organization sponsored by the Speech Department. These programs are broadcast by remote control over Station WLBH in Mattoon.

The University has a campus chapter, Alpha Lambda, of Alpha Epsilon Rho, national honorary radio-television fraternity.

MUSIC. A variety of music organizations provide opportunities for musical growth through enjoyable activities, which in turn contribute richly to the life of the University. Intramural 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 University Chorus and the Cecilian Singers. Small vocal and instrumental en-

sembles afford additional opportunities for students to study and perform music.

The music organizations provide music for various programs throughout the year, uniting to present "The Messiah" at Christmas in alternate years. A standard opera with complete score and authentic setting is presented at periodic intervals. The University Chorus, the Cecilian Singers, the Band, the Orchestra, and selected ensembles annually present public concerts and represent the University in concert tours through eastern and central Illinois. Other projects designed to extend the musical experiences of the University student are: Marching Band Festival, Choral Clinic, Chamber Music Clinic, Workshop in Elementary Music, Piano Clinic, String and Orchestra Clinic, and the Summer Music Camp. These are designed for point participation and observation by off-campus as well as campus personnel interested in the improvement of teacher-training in music.

PUBLICATIONS. Student publications are a weekly newspaper, the *Eastern State News*, and a yearbook, the *Warbler*. An eight-to-ten-page newspaper, the *News* (originally *The Normal School News*, then successively *The Teachers College News* and *The Eastern News*, is published by a student staff with a faculty adviser. Publication during summer school is usually maintained on a modified schedule.

The *Warbler* is issued annually as a pictorial record of the University year. A student editorial staff, supervised by a faculty adviser, is responsible for the publication. The editor and business manager of both publications are appointed by a Publications Board composed of students and faculty. The remainder of each staff is named by the editor and faculty adviser.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern State News and Warbler*.

WOMEN'S ATHLETICS. The Department of Physical Education for Women sponsors the Women's Athletic Association which is open to all women enrolled as regular students. Any student becomes an active member of the Women's Athletic Association by participating in one activity. Any active member is eligible to vote, to attend the annual banquet, to travel to other colleges for competition with other college students and to participate in the sports-days held at Eastern. There are fifteen activities during the year, with some different ones each quarter. Archery, badminton, bait-casting, bowling, canoeing, fencing, golf, hockey, modern dance, softball, swimming, tennis and tumbling are the activities currently offered by the Women's Athletic Association. Basketball and volleyball are organized on an intramural basis with dormitory teams, sorority teams and teams from private homes competing in the tournaments. The modern dance concert and the synchronized swimming show are special events in which any student may perform.

Two awards are given by the Women's Athletic Association to students who participate actively in the athletic program for women.

INTRAMURAL ATHLETICS. The Department of Physical Education for Men offers an intramural program with opportunities for participation in recreative physical activities. Participation is voluntary and open to all students enrolled in the University. The objective of this program is to make recreation and physical development available for every student.

INTERCOLLEGIATE ATHLETICS. The University maintains teams for intercollegiate competition 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 University is a member of the Interstate Intercollegiate Athletic Conference, the National Association for Intercollegiate Athletics and the National Collegiate Athletic Association.

The University maintains a program of intercollegiate athletics in football, basketball, baseball, track, cross country, wrestling, tennis, golf, gymnastics, and swimming. An integrated program of intramural athletics in fifteen different activities is also provided. The University adheres to the policies of the North Central Association of Colleges and Secondary Schools concerning intercollegiate athletics.

AUTOMOBILE REGISTRATION AND CONTROL

It is the responsibility of each student, employee, and faculty member who drives a motor vehicle on or around the campus to register the vehicle in the Office of the Security Officer. Parking permits may be applied for at the Office of the Security Officer.

UNIVERSITY TRAFFIC REGULATIONS: All state and community laws apply on-campus. Other regulations will be issued periodically by the Security Officer.

PENALTIES FOR PARKING VIOLATIONS: First offense 50c, second offense \$1.00, third offense \$3.00.

A fourth violation within a given academic year may result in suspension of driving privileges or suspension from the Univer-

sity for as long as one calendar year. The student, faculty member, or employee may appeal his case to the Traffic and Safety Committee. Appeal forms may be obtained in the Office of the Security Officer.

After the first week of classes in any quarter, the owner of a car found parked on the campus without a registration sticker will be charged a \$5.00 late registration fee.

ALUMNI ORGANIZATIONS

Recognizing the contribution a body of truly interested alumni can make to the development of the University, the growth of various alumni organizations has been encouraged through the years. Since all persons who have students at Eastern, whether graduates or not, are eligible to participate in alumni activities, students now in school are encouraged to learn more about the alumni program.

THE ALUMNI ASSOCIATION. Established in 1905, the Eastern Alumni Association is composed of some 40,000 persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

The officers of the Alumni Association for 1960-61 are Clem Phipps, ex-'27, 520 Wabash Avenue, Mattoon, Illinois, president; Dick Williams, ex-'44, 1919 Ninth Street, Charleston, Illinois, vice-president; and Mrs. Jack Anderson, ex-'46, 948 Sixth Street, Charleston, Illinois, secretary-treasurer.

The Executive Committee of the Alumni Association is composed of the officers and twelve other members elected for three-year terms. Other members are Nolan Sims, '30; James Sherrick, '38; Maurice Foreman, '27; Bill Pulliam, '46; Mrs. John McCarthy, '44; Harry Read, '50; Forest Shoulders, '35; Ferrell Atkins, '45; Earl Anderson, '40; Mrs. Benjamin Weir, '54; Louis K. Voris, '39; Harry Hillis, '51.

JOINT ALUMNI COUNCIL. The alumni organizations of the four institutions under the Teachers College Board, the University of Illinois, and Southern Illinois University form the Joint Alumni Council. Each is represented by its president, its alumni organization president, two representatives of the Alumni organization, and the institution's alumni services director.

ASSOCIATED EASTERN ILLINOIS UNIVERSITY CLUBS. Alumni have formed organizations called Eastern Illinois University Clubs in several counties of Illinois. These clubs usually meet annually with programs designed to keep graduates and former students in touch with each other and with the University.

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

to subscribers throughout the United States and several foreign countries. Subscription rates (which include membership in the Alumni Association) are \$2.00 for one year, \$2.75 for two years, and \$3.50 for three years.

THE EASTERN ILLINOIS UNIVERSITY FOUNDATION. In 1953 the Eastern Illinois Alumni Association sponsored the establishment of the Foundation, a non-profit corporation organized under the laws of the State of Illinois for charitable and educational purposes. The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents, museum specimens, and other materials 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 University, the chairman of the Teachers College Board, and the president of the Alumni Association are automatically honorary members of the Foundation. The regular members include 100 alumni of the University. The board of directors consists of nine persons, including the president of the University, president of the Alumni Association, the director of alumni services and six elected members.

III. STUDENT EXPENSES AND FINANCIAL AID

EXPENSES

FEES described below are payable on registration day of each quarter.

Registration Fee	\$40.00
Student Activity	10.00
Textbook Rental	6.00
*University Union Building Fee	9.00
Health Insurance Fee	5.00
	<hr/>
Total	\$70.00

*—The University Union Building Fee of \$9.00 per quarter is payable by each student for the construction and maintenance of the University Union.

The above fees are for regularly enrolled students taking nine or more quarter hours of work.

Any student registered for less than nine quarter hours is a part-time student unless he is attending an evening class or a workshop organized under the extension program. Students taking over eight quarter hours are regarded as full-time students and are subject to payment of regular fees.

Fees, part-time students	
Course Fee (per course)	\$12.50
Text-book Rental (per course)	1.50
University Union Building Fee (per course)	3.00
**Student Activity (per course)	none
	<hr/>
Total	\$17.00

**A part-time student may purchase a Student Activity Ticket for the regular price of \$10.00.

Out-of-State Tuition. In addition to the regular fee of the University, a student who is not a legal resident of the State of Illinois is required to pay an Out-of-State Tuition fee of \$56.66 per quarter.

Part-time students from out-of-state will pay \$14.25 per quarter in addition to the regular part-time fee.

A student under 21 years of age is considered a non-resident of Illinois and subject to payment of out-of-state tuition fees unless the parents (or legal guardians) are residents of Illinois. This means that the parents (or legal guardians) have a permanent place of abode in Illinois of such nature as would qualify them to vote in Illinois. Students over 21 years of age are considered resi-

dents of Illinois only if they have established a bona fide residence in Illinois for a period of twelve months preceding registration and are residents at the time of registration. An exception is made in the case of a woman student either under or over the age 21 who becomes an Illinois resident because of marriage to a man who is a legal resident.

OFFICIAL RECEIPT.—The official receipt for university fees *MUST* be preserved by the student during the quarter involved.

MISCELLANEOUS CHARGES

Extension Course Fee. (See page 58)

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

Charges for Materials. Fees for materials used are paid in certain courses in art and industrial arts. Completed projects are the property of the student. The foregoing statement applies to all art courses and elective projects in industrial arts courses numbers 326, 336, 356 and 420.

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.

Lock Purchases. Padlocks for lockers used in physical education must be purchased at the University Union. The cost per lock is \$2.00.

Towel Tickets. A towel ticket must be purchased by each student who participates in physical education, intramurals, or intercollegiate activities. When the ticket is presented to the instructor at the first class meeting, it will entitle the student to the use of a towel. (1) The cost for the school year is \$3.00, payable at fall quarter registration, (2) The cost for winter and spring quarters only is \$2.00, payable at winter quarter registration, (3) The cost for spring quarter alone is \$1.00, payable at spring quarter registration.

Graduation Fee. Candidates for graduation must make application for graduation at the Records Office and pay the graduation fee at the Business Office before April 1 for the May graduation

and before July 1 for the August graduation. This fee, \$15.00 for masters' degrees and \$10.00 for other graduates, includes the cost of cap and gown rental.

Transcript Fee. The first two transcripts of a student's record will be mailed upon request without cost to the student. A fee of \$1.00 is charged for additional copies of the transcript.

Housing Security Deposit. A housing security deposit of \$25.00 is required of all applicants for housing in university-owned apartments. This deposit is held as a guarantee against destruction or loss of University property. When occupancy ceases and all property and damages, if any, are satisfactorily accounted for, the deposit is refunded in whole or in part.

REFUND OF FEES. If a student withdraws from the University during a quarter by completing the procedure described under "Withdrawal" and if his initial notice of intention to withdraw is made to the Dean, Student Personnel Services, during the first ten calendar days following the first day of classes for the quarter, registration fees will be refunded. There will be no refund of bond or activity fees. There is no refund of *any* fees if the withdrawal is initiated at a later date. The notice of intention to withdraw should be made in person, although a letter addressed to the Dean, Student Personnel Services, declaring intention to withdraw and post-marked within the stated period is deemed equivalent to the initial notice. If the tenth day falls on a Sunday or within a stated vacation period, the next school day is considered as the tenth day. The official receipt for University fees should accompany the request for refund.

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.

Late Application Fee. An extra fee of \$5.00 is charged an applicant for admission in the fall quarter if he has not filed his application for admission, personal information blank, physical examination record, and transcripts from all institutions previously attended by September 1. The corresponding dates for winter and spring quarters are December 1 and March 1.

Change of Program. A fee of \$1.00 is charged for each change of program slip presented after registration day.

Textbook Library Fee. A fee of \$1.00 is charged if the student's record in the Textbook Library is not clear at the close of the quarter. The cost of a damaged or lost book is also charged.

Change of Housing Payment Card. A fee of \$1.00 is charged if a student living in university housing loses his payment card.

General Library Service Fee. For failure to return books, pictures, and magazines to the University Library in accordance with regulations a fine of \$1.00 is charged and must be paid before a student's record for the quarter is clear.

No credits for the quarter are issued until all University accounts are cleared.

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

Late Application for Graduation. A fee of \$5.00 in addition to the graduation fee is charged for any late application for graduation and/or payment of graduation fees after the April 1 or July 1 deadlines.

Late Residence Hall Payment. A fee of \$5.00 is charged if a residence hall payment is not paid on the dates set by the University unless special permission is received from the director of the hall.

BOARD AND ROOM. During the fall, winter and spring quarters, charge for board and room in University residence halls is \$228 per quarter, payable in advance. This payment includes towels and linens. Most rooms are for double occupancy, except that a few single rooms are available and a few rooms are occupied by three persons. Sunday evening meals and meals during orientation periods are not included in the price quoted above. Details concerning rooms and meals during vacations and between quarters may be obtained from the Office of the Dean, Student Personnel Services. Information on possible installment payments is available there, also. Rates for the summer quarter and the summer session are published in the summer bulletin.

Residence hall charges may be altered at the beginning of any quarter. An advance notice of at least two weeks will be given.

Refund of Board and Room. There will be no refund of room rent except in most unusual circumstances and then only on recommendation of the Dean, Student Personnel Services. 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. No refund of room rent is made unless the space is rented to another student thereby filling all the rooms in the residence hall.

HOUSING SECURITY DEPOSIT. A housing security deposit of \$25.00 is required for a reservation at the residence halls. This deposit is held as a guarantee against the destruction or loss of University property. It is refunded if the student cancels the reservation in writing on or before August 1 for the fall quarter, or in case of the winter, spring, or summer quarters, three weeks prior to the first registration day of the next quarter. When occupancy ceases and all property, damage, and financial obligations are satisfactorily accounted for, the deposit is refunded in whole or in part.

SCHOLARSHIPS. *Teacher Education Scholarships.* First authorized by an act of the Illinois General Assembly in 1935, Teacher Education Scholarships entitle the holders to gratuitous instruction for a period of four school years at any of the following institutions: Eastern Illinois University, Illinois State Normal University, Northern Illinois University, Southern Illinois University, or Western Illinois University. A school year is interpreted as one calendar year.

The holder of a Teacher Education Scholarship must make application for enrollment in one of the five universities by August 15 of the year in which he was granted the scholarship. The scholarship is forfeited if the holder is not enrolled within ten days after the opening of the school term, withdraws from the university, or transfers out of teacher education. The scholarship entitles its holder to gratuitous instruction, matriculation fees, graduation fees, tuition and activity fees, or other fees in a program of teacher education, except any fees which are charged in connection with the construction or maintenance of buildings. Book rent, laboratory fees, University Union Building fees, and fees for supplies and materials are not covered by the scholarship.

Military Scholarships. Any persons who served in the Armed Forces of the United States, during World War I, not including members of the Students Army Training Corp, or any time after September 16, 1940 and who at the time of entering such service was a resident of Illinois, has been honorably discharged from such service and who possesses all necessary entrance requirements, may be awarded a scholarship to any of the six state-supported universities.

This Military Scholarship covers registration and student activity fees at Eastern Illinois University but it does not cover book rental, fees for supplies and materials, University Union Building Fee, and other miscellaneous fees.

The Military Scholarship may be secured by filing a photostatic copy of the discharge or separation papers with the Director of Veterans Services. A Military Scholarship cannot be used when the student is receiving aid from the Federal Government under Public Law 894, or Public Law 550.

Legislative Scholarship. Each member of the General Assembly may nominate annually from his district two persons, one of

whom shall receive a certificate of scholarship to the University of Illinois and the other a certificate of scholarship to any other state-supported university designated by the member. Application is made directly to the legislator who makes the appointment and notifies the president of the university. A second appointment can be made to fill the unused portion of the scholarship if the original recipient fails to use it. The scholarship pays all fees with the exception of the University Union Building Fee and the Book Rental Fee and is transferable to any state university except the University of Illinois.

I.S.S.C. The Illinois State Scholarship Commission awards scholarships to students for a maximum of four years. The awards are based on a combination of financial need and scores on a battery of tests which are taken while the student is in high school. The stipend covers all registration and other fees except health insurance.

Lindley Scholarships. Holders of valid Lindley Scholarships, issued before 1936 and received at the time of graduation from the eighth grade, pay the student activity fee, the book rent, and the University Union Building Fee. The certificate must be presented on registration day.

The William Craig Simmons Memorial Award. Established by Mrs. W. C. Simmons of Charleston in memory of her husband, the award is made annually to a junior business major on the basis of outstanding personal character, scholastic achievement, and interest in the fields of business and business education. Selection is made by the members of the business faculty.

The Livingston C. Lord Memorial Scholarship. The Alumni Association of the University 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.

Illinois Congress of Parents and Teachers Scholarship. The Illinois Congress of Parents and Teachers gives funds each year to the University for scholarships which are awarded to selected students. The qualifications for eligibility are: high scholastic standing, good health, the need of financial aid. The applicant must signify intention to teach. Application for the scholarship should be made to the Dean of Women or the Dean of Men. The recipients are selected by the Grants-in-Aid Committee.

Business Alumni Award. This award was established by the alumni of the Business Department in 1959-60. It is to be made annually to a junior business major whose personal character, scholastic achievement and interest in the fields of business and education promise service of distinction in the field of business education. Selection is made by members of the business faculty.

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 (3.0) 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.

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 University student who submits the best manuscript in the literary contest sponsored by *Eastern State News* and Sigma Tau Delta.

Paul Turner Sargent Scholarship Award. This award has been made possible by the family and friends of the late Paul Turner Sargent. Each year the award is made to an art major or minor who has completed at least eighty quarter hours of course credit. Any student eligible to receive the award shall have demonstrated outstanding aptitudes in art and a sincere interest in art and art education.

The Kate Booker Stapp Scholarship. This award 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 recipient is selected by the Grants-in-Aid Committee. Applications are made to the Dean of Women.

The Howard De Forest Widger Award. The Alumni Association of the Eastern Illinois University grants this award annually to a senior English major selected by the faculty members of the English department. The award is given for outstanding personal character and scholastic achievement in the field of English.

Taylor Award. The Taylor Award was established in 1959 in

honor of Dr. E. H. Taylor, professor of mathematics at Eastern from 1899 to 1945. It is awarded annually to a junior or senior who is majoring in mathematics. The recipient of this award is chosen by the faculty of the mathematics department on the basis of excellence of scholarship.

G. B. Dudley Award. The Dr. G. B. Dudley Memorial Fund was established by Dr. Dudley's son in memory of his father who was closely associated with the University since its founding as a normal school. As a physician and surgeon in Charleston, Dr. Dudley was intimately acquainted for many years with most of the faculty and many of the students. He was well known for his integrity and for his thorough and creative work as a scientist.

The fund makes a minimum of \$200 available each spring for awards to outstanding students in the fundamental sciences: botany, chemistry, physics and zoology. The recipients are chosen by the heads of those four departments, primarily on the basis of serious and original work.

Edith L. Alter English Award. A \$200 annual scholarship in memory of Edith L. Alter, part-time instructor of English until her death in 1959 has been established by her husband, Dr. Donald L. Alter of Eastern's social science department. The award goes annually to the third-quarter freshman showing the most improvement in English. The scholarship will be granted until the original fund of \$1,000 is depleted or as long as additional contributions will permit.

Ann Frommel Memorial Fund. A scholarship for outstanding students in botany, zoology, and chemistry was established by Mr. and Mrs. Albert E. Frommel, Charleston, in memory of their daughter, a superior student at Eastern until she met her death in a riding accident in 1960. The award will be made to an outstanding student who has completed at least his freshman year of college work and has maintained at least a "B" average in all academic subjects. No award will be made until \$100 has accumulated from the interest on the principal. The original fund was \$1,000.

Charleston Achievement Award. A scholarship of \$100 annually has been made possible by the Kiwanis and Rotary Clubs of the city. In order to qualify for the award, a student must be a graduate of Charleston High School, be classified as a junior, have a cumulative grade point average of 3.0 or better, have a record of better than average participation in activities, have leadership qualities and an intention to graduate from Eastern. The scholarship winner is announced at the annual Honors Convocation.

LOANS TO STUDENTS: Funds have been made available through personal gifts and grants from the state and federal governments

for loans to needy students. Applications for student loans are to be secured in the Office of the Director of Financial Aids. Payments are made at the Business Office.

Emergency Loans. The amount of an Emergency Loan is limited to \$100 for a maximum period of ninety (90) days. No interest will be charged. To be eligible a student must be in residence at the University at least one quarter.

University Loans. To be eligible for a University Loan, a student must be of at least sophomore standing with an academic average of at least a "C." The primary need for the loan should be to remain in school. Only full-time students are eligible.

No student can borrow more than \$300 in his sophomore year, \$300 in his junior year, or \$600 in his senior year; the total owed at any one time shall not exceed \$600. The interest rate is 2 percent during enrollment. At termination of enrollment the rate increases to 6 percent.

Under the will of the late Dr. W. D. Morgan of Charleston, there is given to the Student Loan Fund the annual income from approximately 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 University 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.

National Defense Student Loans. The National Defense Student Loan Program, established by Congress in 1958, will be in effect until June 30, 1966. Eastern Illinois University has been accepted as a participant in the program. Loans will be provided students in accordance with federal recommendations and regulations.

To be eligible, the student must show a genuine need for the loan, he must be enrolled as a full-time student, and he must meet the academic and social standards set by the University.

A student may borrow up to \$1,000 a year for a maximum of five years. The amount of the loan will be determined by the University on the basis of availability of funds and the student's financial need.

Illinois Congress of Parents and Teachers Loan Fund. The Illinois Congress of Parents and Teachers in September, 1954, established a loan fund of \$1,000 at Eastern Illinois University. Loans from this fund on either a short or long time basis may be secured

by an eligible student who is in training for the teaching profession. No interest will be charged if the money is repaid within a year of termination of enrollment. Interest then begins at 3 percent. Students should contact the office of the Dean, Student Personnel Services for application forms.

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 interest rate is 2 percent during enrollment. At termination of enrollment the rate increases to 6 percent.

The Alexander Briggs Loan Fund. This fund was established in 1949 by a gift of \$500 (subsequently increased to \$800) from Miss Margaret Briggs in memory of her father, Alexander Briggs, the contractor who completed the Main Building of the University, to be used for loans to students, preferably in mathematics. The interest rate is 2 percent during enrollment. At termination of enrollment the rate increases to 6 percent.

STUDENT EMPLOYMENT. Students desiring part-time employment should apply to the Dean of Men or the Dean of Women. Student employment is contingent upon maintenance of satisfactory academic standing.

ILLINOIS ORPHANS EDUCATION ACT. The Illinois Educational Benefits Act provides financial aid for children of certain deceased veterans. Qualified orphans may receive up to \$150 with which to defray expenses.

Application blanks and additional information may be obtained from the Department of Registration and Education, Springfield, Illinois.

STATE REHABILITATION PROGRAM. The University cooperates with the Illinois Division of Vocational Rehabilitation in the training of handicapped persons. Information concerning the program may be obtained in the Office of the Dean, Student Personnel Services. Application for benefits under this program should be made to the nearest office of the Division of Vocational Rehabilitation.

IV. ADMISSION AND REGISTRATION

ADMISSION

PROCEDURE FOR APPLYING. An application blank may be obtained by writing to the Office of Admissions. The blank contains a section to be filled out by the applicant and one to be filled out by the high school from which the applicant was graduated. The principal of the high school will forward the application to the University.

To insure consideration for admission for the Fall Quarter, the application blank, personal information blank, physical examination blank, and transcripts from colleges previously attended must be in the Admissions Office prior to September 1 for those whose high school rank is in the top two-thirds of their class. Students who rank in the lowest third of their class will conform to special instructions obtained from the Admissions Office. (The corresponding dates for the Winter, Spring, and Summer quarters are November 17, February 23, and June 1, respectively.)

There is an extra fee for late application. (See "Fees.")

ADMISSION TO THE FRESHMAN CLASS. Graduation in the upper two-thirds of a class in a recognized or accredited four-year high school admits to membership in the freshman class. Applicants who rank in the lowest third of their classes are required to take a battery of tests and appear for an interview before their applications are processed; the results of these tests are used in determining the conditions of admission.

Individuals with high school diplomas granted as a result of passing a General Education 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 this case requirements for high school graduation must be completed during the freshman year.

Students from areas other than continental United States may be admitted only by committee action.

ADMISSION OF TRANSFER STUDENTS. Transfer students must file the regular application form (See "Procedure for Applying.") Transcripts of work in other colleges must be sent to the University by the colleges. A student who has been dropped or placed on probation by another college or whose grades are such that he would not be in good standing had the grades been earned in this University, is admitted only by action of the Committee on Admissions. The provisions of this paragraph apply with equal force to a former student who re-enters the University after taking work in another institution.

Transcripts become the property of Eastern Illinois University and are not returnable to students.

NOTIFICATION OF ACCEPTANCE. A notification of acceptance is mailed to the prospective student when his application and transcripts have been found acceptable.

After the applicant has been notified of acceptance he is required to have a physical examination made by his physician, and to furnish certain additional personal information to the University, before the appointment for registration is made. The final dates for filing these documents are listed above. (See "Procedure for Applying.")

SPECIAL STUDENTS. Residents of Illinois who are not high school graduates but who are at least twenty-one years old may be admitted as special students to take such undergraduate courses as they may be qualified to study, but are not considered as candidates for a degree or diploma. They may become candidates for a degree by passing an examination; in this case only those college courses taken after passing the examination may be counted toward graduation.

ACCEPTANCE OF CREDIT

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 University, provided that only courses with grades of "C" or higher are acceptable. Grades earned in other institutions are not included in grade point averages.

COLLEGE CREDIT FOR MILITARY SERVICE. Former members of the armed services who completed basic training are given four quarter hours credit in hygiene and are exempted from required physical education courses, except that this does not apply to those having less than one year of full time active duty service. An exception to this rule also obtains for students taking a major in physical education. 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 University.

No credit is allowed for college level G.E.D. tests.

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. Simultaneous enrollment in residence and correspondence courses is subject to approval in advance by the Dean of the Faculty; permission is given only when the total of residence and correspondence work is within the normal load.

ACADEMIC ADVISEMENT

NEW STUDENTS. All undergraduates who are entering Eastern Illinois University 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. Each new student must have speech and hearing tests during this period; failure to do so will result in exclusion from classes. The physical examination must be completed before registration is begun.

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 of the Faculty.

It is expected that the student will have selected one of the curricula of the University and that the student and his adviser will plan courses that are consistent with its requirements.

FORMER STUDENTS. Students who return to the University after a lapse of one or more quarters must obtain an assignment of adviser from the Assistant to the Dean.

REGISTRATION PROCEDURES

NEW STUDENTS. Instructions for registration of new students are given during the orientation period in writing, conferences, and meetings.

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. Changes may be made upon presentation to the Dean of the Faculty of a request signed by the student's adviser.

Pre-registration is not complete until class cards have been reserved. Reservation of a card for any class is subject to the assigned capacity of the class. The schedule for reservation of cards is planned so that seniors, juniors, sophomores and freshmen have priority in that order.

CHANGE OF ADVISER. Students who wish to change advisers, or change majors, must apply to the Assistant to the Dean.

REGISTRATION SCHEDULE. All students who have pre-registered will register on Registration Day as listed in the University calendar or at earlier dates as announced by the Records Office.

Students in good standing 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. These students receive permission at the Records Office. Pre-registered students who fail to register at their appointed time forfeit their priority in classes for which they were pre-registered.

V. ACADEMIC REGULATIONS

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 two-thirds credit for such courses, 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 toward graduation under the title "Ensemble." (Elementary education majors may also earn four quarter hours in Ensemble credit.)

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

CLASSIFICATION OF STUDENTS

A student is classified as a freshman if he has completed with passing grades fewer than forty quarter hours, exclusive of nominal credit courses; he is considered a sophomore if he has completed at least forty quarter hours but fewer than eight-eight quarter hours; he is classified as a junior if he has completed at least eighty-eight but fewer than one hundred thirty-six quarter hours and as a senior if he has completed one hundred thirty-six quarter hours but has not completed his requirements for a bachelors degree. He is classified as a graduate student if he has completed all requirements for a bachelor's degree and has applied for and has been admitted to take graduate courses. He is considered a special, or unclassified, student in any cases not covered in the foregoing.

ACADEMIC STANDING

GRADES. The grades given in courses are as follows:

Grade	Description	Grade Point Value
A	Excellent	4
B	Good	3
C	Fair	2
D	Poor but passing	1
F	Failure	0
E	Incomplete	—
W	Withdrew	—
Cr	See "Proficiency Examinations"	

The grade of E may be given when because of illness or some other important reason the student's normal progress in a course has been delayed, provided the instructor has approved a plan for completion of the work no later than the end of the next quarter of residence. If the plan is carried out, the grade earned by the student replaces the grade of E; otherwise the grade of E stands on the student's record.

GRADE POINT AVERAGE.* The number of grade points for a grade in a given course is found by multiplying the grade point value by the number of quarter hours which may be earned in the course. The Grade Point Average is computed by dividing the total number of grade points earned in all courses taken at Eastern Illinois University by the total number of quarter hours represented by those courses. If a course has been repeated, only the last grade is counted in making this computation. *It is the responsibility of the student to report to the Records Office that a course is being repeated.*

GRADE POINT DEFICIT.* If the Grade Point Average is less than 2.0, a Grade Point Deficit exists. This is computed by subtracting the grade point total from twice the total number of quarter hours. (This is equivalent to defining the Grade Point Deficit as the number by which the grade point total would have to be increased in order to have a Grade Point Average of 2.0 in the courses considered.)

GOOD STANDING. A student who has attended, full time or part time, less than one year in Eastern Illinois University and/or other colleges is considered in good standing unless he has a Grade Point Deficit greater than 8.

A student who has attended one year, but less than two years in Eastern Illinois University and/or other colleges is considered in good standing unless he has a Grade Point Deficit greater than 4.

A student who has attended two years in Eastern Illinois University and/or other colleges is considered in good standing if his Grade Point Average is 2.00 or higher.

For purposes of this section, three terms at Eastern Illinois University, either summer terms or quarters, shall be interpreted as one year; one semester, summer term, or quarter in another

*An example of these computations: If grades of A, B, C, D, and F are earned in courses of 2, 4, 4, 1, and 4 quarter hours respectively, the Grade Point Average and Grade Point Deficit are computed as follows:

Grades	Quarter Hours	Grade Points	Computation
A	2	8	G.P.A. = 20 divided by 15 = 1.33
B	4	12	
C	4	8	G.P.D. = 2x15 minus 20 = 1.
D	1	1	
F	4	0	
	<hr/> 15	<hr/> 29	

college shall be interpreted as one quarter; two semesters in another college shall be interpreted as one year.

PROBATION. A student whose record falls below that required for good standing, but not so low as to be subject to exclusion, is placed on probation for one quarter.

FINAL PROBATION. A student who has attended for one quarter on probation and whose record at the close of that quarter, or at any subsequent time, falls below that required for good standing, but not so low as to be subject to exclusion, is placed on Final Probation for one quarter.

EXCLUSION. A student is dropped for low-scholarship (1) if at the close of a quarter of Final Probation he has not attained good standing; (2) if at any time subsequent to a quarter of Final Probation his record falls below that required for good standing; or (3) if at any time his record shows a Grade Point Deficit greater than 20, except that this provision does not apply to his record at the end of his first quarter if he has never attended another college.

APEAL. A student who has been dropped for low-scholarship may be readmitted only by action of the Committee on Admissions. Ordinarily, a period of two quarters must elapse before a petition will be considered. The length of the new probationary period and any additional conditions are fixed by the Committee as conditions for readmission. Petition forms may be obtained from the Dean of Students.

HONORS. Graduation honors for the Junior College Diploma and the degrees, B.S. in Ed., B.A., and B.S., 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. To be eligible for graduation honors a student must have been in residence for two academic years or the equivalent in summer terms.

A student whose grade point average is at least 3.40 but less than 3.75 is graduated with Honors; one whose grade point average is 3.75 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.

SCHOLARSHIP REQUIREMENTS FOR GRADUATION. (See "Graduation Requirements.")

EXTRA WORK

A normal load of work for an undergraduate student in good standing in any of the three quarters of the school year or in the summer quarter is sixteen quarter hours of regular academic courses except when, as in music, the curriculum calls for a different load.

No student may register for additional work during his first quarter of residence in the University, during a quarter in which he is taking four quarter hours or more in student teaching, nor during a ten week summer quarter. With these exceptions, an undergraduate student may register for overloads under the following conditions:

A student whose cumulative Grade Point Average is at least 3.0, or whose cumulative average for the three quarters immediately preceding is at least 3.0, may register for as many as twenty quarter hours in a quarter.

A student whose cumulative average is at least 2.75 may register for eighteen quarter hours.

Any music major in good standing may register for eighteen quarter hours including two quarter hours in applied music. Ensemble credit is not counted in computing overloads for music students except that no student may earn more than sixty quarter hours including ensemble credit in three consecutive quarters regardless of cumulative average.

Graduate students are restricted to 16 quarter hours during a quarter.

ATTENDANCE AT CLASSES

Students are expected to attend all classes for which they are registered unless prevented by illness or some other urgent reason.

A student who is absent for serious illness or because of death or illness in the immediate family is expected to notify the Dean of Students office the first day of his absence, if possible, so that his teachers may in turn be notified.

When a student knows in advance that he will be absent, it is his duty to notify his teachers. When he does not know of it in advance, he has the obligation to explain his absence on returning.

A student who is absent immediately before or immediately after a vacation period is not accorded the privilege of making up work missed unless it is definitely established through the University Health Service and the Dean of Students office that the student has been too ill to attend or that there has been a death or serious illness in the immediate family.

Instructors are responsible for keeping in their classbooks accurate records of the attendance of all members of their classes. The attendance record of any student shall be submitted to the Dean of Students or the Dean of the Faculty upon request.

Instructors are expected to report to the Dean of Students the name and attendance record of any student whose absences have become a matter of concern to the teacher. A student whose record has been so reported may be denied permission by a teacher to re-enter class until he presents a statement from the Dean of Students. In the event that the student has missed classes for reasons acceptable to the Dean of Students, he is entitled to a reasonable amount of help from the teacher in making up work missed. In the event that the reason for excessive absence is not acceptable to the Dean of Students, the student may be required by the Dean of Students to withdraw from the course from which he has been reported excessively absent. In aggravated cases of failure to attend classes he may be dropped from the University by action of the Administrative Council on recommendation of the Dean of Students.

WITHDRAWAL

WITHDRAWAL FROM UNIVERSITY. A student who wishes to withdraw from the University before the end of a quarter or summer term must notify the Assistant Dean, Registration and Records, at the time of withdrawal. This notification must be accompanied by a clearance sheet which certifies that all obligations, including the return of textbooks and library books, the return of any departmental equipment loaned to the student, and the return of the Student Activity Ticket, have been met. Such a student receives grades of W in all courses, except that if the withdrawal takes place within the last two weeks 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. The clearance sheet described above is obtained from the Dean of Students.

If a student discontinues attendance in all classes without withdrawing officially, grades of F are recorded in all courses, and his record is marked "Dropped on account of low scholarship" if transferred to another institution.

WITHDRAWAL FROM A COURSE. A student may drop a course at any time within the first thirty-four school days following Registration Day upon recommendation of his adviser and the approval of the Dean of the Faculty. If the course is dropped during the first nine days the registration for the course is cancelled and no grade is given. If the course is dropped on or after the tenth day the grade "W" is recorded if the work to date is of passing quality (D or higher) while the grade "F" is recorded in other cases. In particular, the grade "F" must be recorded if prior to the effective date of withdrawal the number of unexcused absences has been great

enough so that the student cannot be considered as having done the work of the course to date.

No student may drop a course after the thirty-fourth school day following Registration Day unless illness (certified by the University physician) or extended absence from the campus certified by the Dean of Students as legitimate and unavoidable has caused the student to drop behind in all of his courses to the point where his load must be lightened.

PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the college in accordance with the following regulations:

1. The applicant must be enrolled as a full time student or must be within 16 quarter hours of graduation, or must be a teacher who has been working regularly toward the degree, B.S. in Education, and who was in full time residence during the summer term immediately preceding the year in which application for the examination is made. The applicant must be in good standing.
2. The course in which examination is requested may not duplicate substantially any course accepted for college entrance or for transfer of credit.
3. Recommendation of the department head and approval of the Dean of the Faculty are required for each examination. The applicant should present evidence of independent study or of equivalent work taken in non-accredited schools.
4. An examination for credit in an elementary college subject will not be permitted to a student who has already received credit for more than one quarter's work in advance of the course in which the examination is requested.
5. Proficiency examinations may not be used to remove grades of F or to raise grades.
6. In order to be allowed credit, the examination must be comprehensive, and the grade must be C or higher. The symbol "Cr" is entered in the student's record, and the credit is not counted in averages for honors, probation, etc.
7. Credit earned by proficiency examinations may be counted toward a bachelor's degree or junior college diploma subject to all of the rules that would apply if the same course had been taken in regular class attendance.
8. Permission shall not be granted for examinations in shop, studio, or laboratory courses in which the actual laboratory

experience is an important factor in determining the course grade unless equivalent work has been done in a non-accredited learning situation.

9. Proficiency examinations may not be given for credit in required physical education or applied music.
10. When a course in which an examination is granted is ordinarily taught by more than one member of a department, a committee of at least two members should be assigned the responsibility for the examination and the grade. This assignment is made by the head of the department.

GRADUATION REQUIREMENTS

Eastern Illinois University offers a junior college diploma, three undergraduate degrees, and a graduate degree. Regulations governing the junior college diploma and the baccalaureate degrees are presented in the sections below:

RESPONSIBILITY OF STUDENTS. It is the responsibility of the student to know and to observe the requirements of his curriculum and the rules governing academic work. Although the adviser will attempt to help the student make wise decisions, the ultimate responsibility for meeting the requirements for graduation rests with the student.

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.

A candidate for the Junior College Diploma 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.

Three-fourths of the candidate's grades must be C or above, and the grade point average of all courses must be 2.0 or higher.

The physical education requirement for graduation with a Junior College Diploma is six quarter hours.

GENERAL REQUIREMENTS FOR BACCALAUREATE DEGREES. The official requirements for the baccalaureate degrees are given in the curriculum outlines.

CREDIT. The minimum credit for a junior college diploma is 96 quarter hours, and for a baccalaureate degree, 192 quarter hours exclusive of service courses in physical education, Library 120, and any other nominal credit courses. Nominal credit is defined as credit which may apply only in excess of the minimum requirement.

RESIDENCE. At least 64 quarter hours of courses, including 48 quarter hours taken in the junior and senior years, must be completed in residence in this institution.

EXTENSION AND CORRESPONDENCE WORK. The maximum amount of credit in correspondence and extension courses which may be applied toward a baccalaureate degree is 48 quarter hours.

SPECIAL EXAMINATIONS. The Junior English Examination and an examination on the Declaration of Independence, the proper use and display of the flag, and the constitutions of The United States and of Illinois must be passed by all candidates for graduation.

ADVANCED COURSES. Sixty-four quarter hours of credit for a baccalaureate degree must be earned in courses not open to freshmen and sophomores, Courses numbered 300 to 549 are indicated by this rule. In the case of students who enter with advanced standing, courses not open to freshmen and sophomores in schools previously attended may be included in this total.

GRADE POINT AVERAGE. An average of 2.0 with not more than 48 quarter hours with grades below C, is required for graduation. The grades in the major must likewise average 2.0 or higher.

APPLICATION FOR GRADUATION. Degrees are conferred and junior college diplomas awarded at two commencements each year, Spring Commencement at the close of the spring quarter, and Summer Commencement at the close of the summer term. All requirements for the degrees or the diploma must have been completed before commencement, except that at Summer Commencement students who are currently registered for courses which can be completed prior to September first may participate in the exercises and will receive degrees and diplomas dated in that year.

A student who expects to complete his requirements must apply for graduation prior to April first for Spring Commencement, or July first for Summer Commencement. An application is filed at the Records Office and the graduation fee paid at the Business Office. An additional fee of five dollars is charged if the student applies for graduation or pays his graduation fee later than the dates given. Late applicants cannot be assured that their diplomas will be prepared in time for graduation, their names printed on the commencement program or their academic costumes ordered by the University.

PLACEMENT BUREAU. Registration with the Bureau of Placement is prerequisite to graduation with any degree.

PHOTOGRAPH. A photograph, size not larger than one and one-

half inches by two and one-half inches is required of each candidate for graduation for the files of the Records Office.

CERTIFICATION REQUIREMENTS. Candidates for the degree B.S. in Ed. are responsible for fulfilling any special certification or accreditation requirements of the schools in which they will teach.

CREDIT FOR COURSES IN EDUCATION. Courses in education and methods of teaching, other than Education 232, are not accepted toward the degrees B.S. and B.A. Enrollment in these courses is permitted only to students who have been accepted as teacher education candidates.

TRANSCRIPTS. The Records Office will make a transcript of the academic record of a student when requested to do so. Unless specific instructions are given to the contrary, it is understood that the Records Office has permission of the student to send his transcript of record to employing and certificating agencies, such as schools, boards of education, businesses, state department of education, when such an agency requests it.

All requests for transcripts must be in writing, either by letter or on the request forms supplied by the Records Office.

The time for preparation and mailing of transcripts varies with the season of the year. During registration and quarter end there may be a delay of several days.

A transcript fee of one dollar is charged for each transcript after the first transcript issued.

AUDITING OF COURSES

Provision for auditing courses may be made under certain circumstances. Information concerning the regulations may be obtained in the Records Office.

Fees for auditing are the same as those for students taking an equivalent amount of work for credit.

Students enrolled for full time academic work must include any courses they wish to audit as part of the maximum load permitted them.

VI. TEACHER EDUCATION

ADMISSION TO TEACHER EDUCATION

Admission to the University does not automatically admit to teacher education. Only students who have been admitted to teacher education may register for departmental methods courses and education courses numbered above 300. Admission to teacher education is governed by the following policies:

Curricula for High School and Special Area Teachers. Students who are pursuing a departmental curriculum which leads to the degree B.S. in Ed. must make application for admission to teacher education no earlier than the quarter in which they will complete forty quarter hours of credit in the University, and no later than the quarter in which they will have completed one hundred quarter hours of credit. Students in these curricula are not permitted to enroll in departmental methods courses and in courses in education except Education 230 and 232 until after they have been admitted to teacher education.

Elementary Education Curriculum. Students are permitted to enroll tentatively in the curriculum in elementary education to take the courses prescribed in this curriculum; they will submit applications for admission to teacher education at the same time as students in the secondary curricula. Enrollment in education and departmental methods courses numbered 300 or higher must wait until after admission to teacher education.

Transfer and Extension Students. Transfer students entering the University will be expected to meet the requirements for admission to teacher education. Those with less than two years of accepted credit may not carry departmental methods or 300 and 400 level education courses until they have been admitted to teacher education. Those with more than two years of credit may carry such courses until they are eligible to make application.

Persons with a baccalaureate degree in any recognized college or university may take departmental methods courses and 300 or 400 level education courses without formal admission to teacher education, but may carry student teaching only by meeting the criteria for admission to teacher education.

Teachers in service may take departmental methods courses and 300 or 400 level education courses without admission to teacher education, but will be expected to make application for admission to teacher education immediately upon re-registering for residence work.

Late Application. Students who have earned more than one hundred quarter hours may make application for admission to teacher education with the understanding that they must make up

existing deficiencies in the curriculum leading to the degree B.S. in Ed. and that no privileges will be accorded in the way of acceleration of either the professional or academic requirements of that curriculum.

Criteria for Admission to Teacher Education. Admission to teacher education is determined by the Committee on Admission to Teacher Education. This committee will require for its consideration:

- a. A formal application from the student.
- b. Grades which average 2.10 or higher.
- c. Evidence of proficiency in English usage.
- d. A recommendation from the student's major department.
- e. A recommendation of the University physician.
- f. A recommendation from the Speech and Hearing Clinic.
- g. A record of the scores made by the student in entrance tests and subsequent tests administered to students.
- h. A statement from the Dean of Students.

Application blanks for admission to teacher education and additional information may be secured at the Office of Teacher Education and Placement.

STUDENT TEACHING

Academic Standards for Admission to Student Teaching

Admission to teacher education is prerequisite to admission to student teaching.

1. Students in the four-year program shall have earned sixteen (16) quarter hours of credit in professional education courses, including Education 345, "Directing Learning," before being assigned to student teaching. (Industrial Arts and Business Education majors may substitute Education 458 for 345. Music majors may take either Education 345 or 446.)
2. To be eligible for student teaching a student must have a grade point average of 2.0, including a 2.0 average in his teaching fields. (This requirement will be 2.10 after September 1, 1962.)
3. Required departmental "Methods of Teaching" courses should be completed before a student participates in student teaching.
4. Students must meet the minimum requirements established by the office of the Superintendent of Public Instruction for teaching any high school subject.
5. Transfer students must have been in residence at Eastern for at least one quarter or one summer term before they may be admitted to student teaching.

6. Students who have earned a baccalaureate degree from another accredited college or university and who meet the academic and residence requirements for admission to student teaching, may enroll for student teaching by obtaining permission from the Dean of the Faculty and the Director of Teacher Education.

Health Standards for Admission to Student Teaching

1. All students must have had a chest X-ray (negative) within one year previous to beginning student teaching. Juniors may obtain a free X-ray from the state X-raymobile during its spring visit to Charleston. A negative skin test may be accepted in lieu of a chest X-ray.
2. All students must be in good health and free from communicable disease. To be assigned to student teaching for the first time, a student must secure a statement from the Health Service indicating that he is physically qualified to carry the responsibilities of a student teacher and as a regular teacher after employment.

Assignment to Student Teaching

1. Application for student teaching assignments are made to the Associate Dean, Teacher Education and Placement, in advance of the quarter in which student teaching is desired.
 - a. Secondary majors work with their departmental coordinator of off-campus student teaching in arranging suitable assignments.
 - b. Elementary majors plan with their advisor.
2. Assignments for student teaching are made through the office of the Associate Dean, Teacher Education and Placement, as follows:
 - a. Secondary majors are given assignments by the departmental off-campus coordinator of student teaching, subject to the approval of the Associate Dean, Teacher Education and Placement.
 - b. Elementary majors are assigned to supervising teachers in the Robert G. Buzzard Laboratory School, subject to the approval of the Associate Dean, Teacher Education and Placement.
3. Students should arrange for their student teaching assignments before registering for other subjects.
4. In planning their schedule of classes, students provide time for student teaching according to one of the following patterns:
 - a. All day for one quarter.

- b. Half-day for two quarters.
 - c. All day for nine weeks (Home Economics majors only)
5. No student may register for more than a normal load, including student teaching, during any quarter in which he has student teaching.
 6. Students enrolled in full-time off-campus student teaching for one quarter may register for a maximum of sixteen (16) quarter hours, (Education 441, 442, 443, and 444.)
 7. Students enrolled in either full-time or part-time off-campus student teaching must assume the necessary transportation, room and board expenses. These charges should be considered as a part of the total cost of college attendance during the senior year.
 8. Students who are enrolled in off-campus student teaching must conform to all special regulations relative to these assignments.

Off-Campus Student Teaching

The off-campus student teaching program at Eastern Illinois University affords qualified students an opportunity to obtain pre-service experience in a typical school situation. Students who expect to teach on the high school level will, in most cases, need to do their student teaching outside of Charleston.

Those who participate in full-time teaching should live in the community in which they do their student teaching. These students report to the school every day, all day, and work with the school system for twelve weeks, and follow the local school calendar.

In addition to obtaining experiences in directing the learning activities of boys and girls in the academic areas, these full-time student teachers frequently participate in or are responsible for: the guidance program of the school, the audio-visual program, study halls, the preparation of assembly programs, field trips, dramatics, and athletic contests. These students also attend faculty, department, curriculum, and P.T.A. meetings. They participate as faculty members in as many of the activities of the school and community as possible.

In brief, the objective of the full-time off-campus student teaching program is to provide opportunities for these students to learn, through participation, to conduct the learning experiences and activities included in a typical teaching assignment. The number and kinds of experiences will vary. These are determined by: the needs of the student; his ability to pursue them with profit; his interest and initiative; his special talents; and, the facilities and activities which the school system and community can provide.

Laboratory School

Robert G. Buzzard Laboratory School is operated primarily to provide observation and student teaching facilities for University classes and students. Classrooms are open to observers. Arrangements for observation, either individual or group, should be made in the office of the Director of the Laboratory School. The director and supervising teachers will help University students and visiting teachers obtain the observation opportunities desired.

The laboratory school includes an elementary school of six grades and a junior high school with grades seven, eight and nine. The school is under the supervision of a director who works with the Associate Dean in planning and implementing the educational program. Departments of the University serve in an advisory capacity.

VII. TEACHER EDUCATION CURRICULA

Requirements for the Degree, Bachelor of Science in Education

(Effective September 1, 1961, for students who enter as freshmen or transfer students. Specific curricula conforming to these requirements will be described in material supplementary to this publication and will appear in later catalogues.)

I. General Requirements

(Subject to modification by exemptions described in Section V.)

- English Composition, freshman level (English 120, 121)—8 q. hrs.
- English Composition, sophomore level (English 220)—4 q. hrs.
- Speech (Speech 131 or 345)—4 q. hrs.
- Natural Sciences (see Section IV for definition)—16 q. hrs.
- Social Science (see Section IV)—20 q. hrs.
- Humanities (See Section IV)—24 q. hrs.
- Mathematics (see Section IV)—4 q. hrs.
- Health Education (Health Education 120)—4 q. hrs.
- Library Science (Library 120)—(1)
- Physical Education Service Courses—(6)

Note: Credit listed in parentheses is nominal credit to be earned in addition to 102 q. hrs. required for graduation.

II. Professional Requirements

- Professional Education (courses to be announced)—12 q. hrs.
- Psychology (Psychology 231)—4 q. hrs.
- Methods (see Section IV)—0 to 8 q. hrs.
- Student Teaching—12 q. hrs. (A maximum of 16 q. hrs. may be earned.)

III. Majors and Minors

In curricula for the Secondary School Certificate a major of at least 48 q. hrs. and a minor of at least 24 q. hrs. are required. In curricula for the Special Certificate in Music, Art, Women's Physical Education, Industrial Arts, Home Economics, Social Science, and Business a minor is not required. The courses for majors and minors are prescribed.

Candidates in Elementary Education follow a curriculum designed for the Limited Elementary Certificate.

IV. Definitions and Restrictions

Natural Sciences. The natural sciences are classified in two fields: biological sciences and physical sciences. The biological sciences comprise botany, zoology, and general biology. The physical sciences comprise physics and chemistry. Twelve quarter hours of the natural science requirement must be in one field. (For students who enter prior to September 1, 1963, the total science requirement is 12 q. hrs. in one field.)

Social Science. The social sciences are defined to include history, political science, economics, sociology, and geography. At least 12 q. hrs. must be taken in one of these subjects. At least 4 q. hrs. must be in American History.

Humanities. This area is defined to include three groups of subjects:

Group A—Philosophy and Literature

Group B—Music and Art

Group C—Foreign Languages

The normal requirement of 24 q. hrs. must be met by taking 12 q. hrs. in each of two of these groups.

Mathematics. The mathematics requirement is satisfied by a mathematics course other than a course in methods of teaching mathematics.

Acceptable Unit. In defining exemptions below, an acceptable unit is defined as two semesters of high school work taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.

Methods Courses. Prospective secondary teachers must take a 4 q. hr. course in methods of teaching in their major field unless the Dean of the Faculty rules that methods work is contained in other courses. Where the major and the minor are ruled dissimilar by the Dean of the Faculty, a methods course must also be taken in the minor.

V. Exemptions

English 220 may be omitted by a student whose grades in English 120 and 121 average 3.0 or higher. A student may also be exempted from English 220 on the basis of an examination given by the Department of English.

The natural science requirement may be reduced by 4 q. hrs. if the student presents one or more acceptable units in a science in which laboratory work was required. The remaining 12 q. hrs. must be taken in a single subject in a field different from that

in which the exemption is taken. (This paragraph applies only to students who enter after September 1, 1963.)

The social science requirement may be reduced by 4 q. hrs. for one acceptable unit in high school or by 8 q. hrs. for two or more acceptable units. In case exemptions are granted, the requirements of 12 q. hrs. in a single subject is reduced to 8 q. hrs. This does not alter the requirement that 4 q. hrs. must be taken in a college course in American History.

The humanities requirement may be modified by exemptions as follows:

If Group A is chosen, the 12 q. hrs. for this group may be reduced to 8 q. hrs. if the student presents one or more acceptable units.

If Group B is chosen, the 12 q. hrs. may be reduced to 8 q. hrs. by the presentation of one or more acceptable units.

If Group C is chosen, the 12 q. hrs. requirement will be considered as completely satisfied by two acceptable units in a single language. A student with less than two acceptable units may take a placement examination given by the Foreign Language Department to determine the point at which he enters upon further study of that language, and he will meet the total requirement when he has passed the third quarter college course in that language.

Regardless of exemptions, a student must take a minimum of 16 q. hrs. of college work in the humanities.

The mathematics requirement may be omitted by a student who presents two acceptable units in high school courses ruled by the Mathematics Department of the University as college preparatory mathematics. Algebra, plane geometry, solid geometry, and trigonometry are considered college preparatory mathematics courses; courses of newer types now offered in certain high schools may be ruled by the Department to be college preparatory courses.

Exemptions do not establish college credit; instead, they free the student for greater flexibility in planning his college courses by permitting more elective credit.

Students who enter the University between September 1, 1961, and September 1, 1963, and whose high school record makes them eligible for fewer than eight quarter hours of exemption are granted supplementary exemptions to bring their total to eight quarter hours. The supplementary exemptions may be applied to requirements in social science, mathematics, and humanities, with not more than four quarter hours applied in any one of these areas.

Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

TEACHER EDUCATION CURRICULA

(For students who entered prior to September, 1961)

The outlines which follow define the requirements for the majors in the elementary, secondary, and special fields and suggest the most desirable sequences. Irregular students are obliged to alter these sequences; this should be done with greatest care. While advisers will help students to make decisions regarding choice of courses, it is the responsibility of the student to meet all of the requirements for his graduation and to know and observe all of the academic rules, including the rules governing admission to the courses entered on his program.

Curriculum for Elementary Teachers

(For students who entered prior to September, 1961)

This curriculum is intended to prepare for teaching in the first eight grades of the public schools. The degree, 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, 148
 Biology 126, 127, 128
 Physical Education (Year)
 Library 120

JUNIOR YEAR
 Education 324, 325, 328
 Social Science 233, 234, 235
 Geography 300, 301, 302
 Elective (12 q. hrs.)
 Physical Education 315, 316, 317

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)

SENIOR YEAR
 Psychology 447, Education 344, 440
 English 234, Speech 345, English 348**
 Advanced Elective (Year)
 Education 441, 442, 443

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

**Or English 343 or 344 or 452.

Students may offer as elective credit in the Elementary Education curriculum 4 q. hrs. earned in choral ensemble in the music organizations.

Curricula for High School and Special Area Teachers

The degree, 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 High School Certificate or Special Certificate as indicated.

The curricula are listed according to major. 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 Faculty before it is accepted as fulfilling requirements.

ART

(For students who entered prior to September, 1961)

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 (8 q. hrs.)*
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Art 236, 237, 238
Art 230, 231, 232
Education 230, 232, Psychology 231
Laboratory Science (Year)
Physical Education (Year)

JUNIOR YEAR

Art 320, 321, 322
Art 339, 340, 345
Education 344, 345
Speech 345
Electives or Minor (Year)

SENIOR YEAR

Art 448, 453, 455
Education 440
Education 441, 442, 443
Electives or Minor (Year)
Electives (8 q. hrs.)

II. (High School Certificate)

FRESHMAN YEAR

Art 100, 101, 102
Art 110, 111, 112
English 120, 121, 125
Health Education 120
Social Science (8 q. hrs.)*
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Art 230, 231, 232
Education 230, 232, Psychology 231
Laboratory Science (Year)
Minor (Year)
Physical Education (Year)

JUNIOR YEAR

Art 236, 237, 238
Art 339, 340, 345, 449
Education 345, Speech 345
Minor (Year)

SENIOR YEAR

Art 320, 321, 322
Art 448, 453, 455
Education 344, 440
Education 441, 442, 443
Elective (4 q. hrs.)

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

BOTANY

(For students who entered prior to September, 1961)

FRESHMAN YEAR

English 120, 121, 125
Elective (Year)
Chemistry 120, 121, 122 or 150, 151,
152
Botany 120, 121, 122
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
Social Science (8 q. hrs.)*
Health Education 120
Zoology 120, 121, 122
Botany 230, 231, 232 or 235
Physical Education (Year)

JUNIOR YEAR

Speech 345, Education 345, Geography 140
or 141
Education 440, 344, Botany 340
Botany (any three) 344, 345, 346, 349,
350, 351
Zoology 230, 231, 232 or Zoology 343,
344, 345

SENIOR YEAR

Education 441, 442, 443
Elective (Year)
Advanced Elective (Year) Major
Elective (Year) Minor

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

BUSINESS*(For students who entered prior to September, 1961)**(1) Secretarial Studies***FRESHMAN YEAR**

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

SOPHOMORE YEAR

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

JUNIOR YEAR

Education 440, 344, 345*
 Business 451, 452, 453; or 247
 and two of the following: 248, 249, 250
 Business 472, 473
 Speech 345
 Minor (Year)

SENIOR YEAR

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

*(2) Accounting***FRESHMAN YEAR**

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

SOPHOMORE YEAR

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

JUNIOR YEAR

Education 440, 344, 345*
 Business 454, 455, 456, 460, 461, 462, 463
 (elect any three)
 Business 470 and one of the following:
 471, 472, 473
 Elective 12 q. hrs.
 Minor (Year)

SENIOR YEAR

Business 451, 452, 453; or 247 and two
 of the following: 248, 249, 250
 Education 441, 442, 443
 Business 446, 447
 Speech 345
 Advanced Minor (Year)

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

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

SOPHOMORE YEAR

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

JUNIOR YEAR

Social Science 254, 255, 256
 Education 440, 344, 345*
 Business 454 or 455 or 460 or 461, 462
 or 463 (Elect one)
 Business 470, 471, 472, 473 (Elect two)
 Minor (Year)

SENIOR YEAR

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

* Students having two or more years of business experience may substitute Education 458 for Education 345 upon approval of the Dean of the Faculty.

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 three 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.

CHEMISTRY

(For students who entered prior to September, 1961)

FRESHMAN YEAR

Chemistry 120, 121, 122 or 150, 151,
152
English 120, 121, 125
Mathematics 134 and prerequisite
Elective (Year) (Preferably Physics
180, 131, 132)
Physical Education (Year)
Library 120

SOPHOMORE YEAR

Chemistry 233, 234, 235
Education 230, 232, Psychology 231
Health Education 120, Social
Science (8 q. hrs.)*
Elective (Year) (Preferably Mathe-
matics 235, 236, and 345 or 228)
Physical Education (Year)

JUNIOR YEAR

Chemistry 343, 344, 345
Speech 345, Chemistry 340, 342
Chemistry 491, 492, 493
Education 345, 440, Elective

SENIOR YEAR

Education 441, 442, 443
Education 344, Elective (8 q. hrs.)
Elective (Year)
Advanced Elective (Year)

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

ENGLISH

(For students who entered prior to September, 1961)

FRESHMAN YEAR

English 120, 121, 126
Laboratory Science (Year)
Foreign Language (Year)
Health Ed. 120, Speech 131, Social
Science 233 or 234 or 235
Physical Ed. (Year)
Library 120

JUNIOR YEAR

Social Science 343, 344,
Education 345
Minor (Year)
English 326, 327, 340
English 346, 347, 348

SOPHOMORE YEAR

Education 230, Psychology 231,
Education 232
Foreign Language (Year)
Minor (Year)
English 230, 234, Elective
Physical Ed. (Year)

SENIOR YEAR

Education 344, 440
Education 441, 442, 443
English 343, 344
English 452, 450
Elective (12 q. hrs.)

Fourteen English courses are required for graduation with a major in English. English majors are required to take two years in

Latin, French, or German if they have not had the equivalent in high school, equivalence to be determined by examination by the Foreign Language Department.

FOREIGN LANGUAGES

(For students who entered prior to September, 1961)

Majors in Latin, French, German, or Spanish take thirty-six quarter hours in addition to the twelve hours of elementary work. Students with three or four years in a language in high school should confer with the head of the department.

(1) Latin

FRESHMAN YEAR

Latin (12 q. hrs.)*
 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 (12 q. hrs. advanced)
 Speech 345, Latin 340, Elective
 Education 440, 344, 345
 Elective (Year)

SOPHOMORE YEAR

Latin (12 q. hrs.)
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective or Laboratory Science (Year)
 Physical Education (Year)

SENIOR YEAR

Education 441, 442, 443
 Latin (12 q. hrs. advanced)
 Advanced Elective (Year)
 Elective (Year)

*Students who have credit for two years of Latin in high school should register for Latin in the 200's.

(2) French

FRESHMAN YEAR

French (12 q. hrs.)*
 English 120, 121, 125
 Laboratory Science (Year)
 Social Science 233, 234, Health
 Education 120
 Physical Education (Year)
 Library 120

JUNIOR YEAR

French (12 q. hrs. advanced)
 Education 440, 344, 345
 Speech 345, Geography 452, French 340
 Elective (Year)

SOPHOMORE YEAR

French (12 q. hrs.)
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective (Year)
 Physical Education (Year)

SENIOR YEAR

Education 441, 442, 443
 French (12 q. hrs. advanced)
 Elective (Year)
 Elective (Year)

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

(3) *German*

FRESHMAN YEAR

German (12 q. hrs.)*
 English 120, 121, 125
 Laboratory Science or Elective
 (Year)
 Social Science 148, 235, Health
 Education 120
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

German (12 q. hrs.)
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective or Laboratory Science (Year)
 Physical Education (Year)

JUNIOR YEAR

German (12 q. hrs. advanced)
 Speech 345, German 340, Elective
 Education 440, 344, 345
 Elective (Year)

SENIOR YEAR

Education 441, 442, 443
 German (12 q. hrs. advanced)
 Geography 452, Elective (Two quarters)
 Advanced Elective (Year)

*Students who have credit for two years of German in high school should register for German 233, 234, 235.

(4) *Spanish*

FRESHMAN YEAR

Spanish (12 q. hrs.)*
 English 120, 121, 125
 Laboratory Science (Year)
 Social Science 233, 234, Health
 Education 120
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Spanish (12 q. hrs.)
 Education 230, 232, Psychology 231
 Elective (Year)
 Elective (Year)
 Physical Education (Year)

JUNIOR YEAR

Spanish (12 q. hrs. advanced)
 Spanish 340, Speech 345, Geography 451
 Education 440, 344, 345
 Elective (Year)

SENIOR YEAR

Education 441, 442, 443
 Spanish (12 q. hrs. advanced)
 Elective (Year)
 Advanced Elective (Year)

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

GEOGRAPHY

(For students who entered prior to September, 1961)

FRESHMAN YEAR

English 120, 121, 125
 Laboratory Science (Year)
 Geography 140, 141, 142 or 150,
 151, 152
 Elective (Year)
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science (8 q. hrs.)* Health
 Education 120
 Geography 241, 242, 243 or
 Geography 150, 151, 152 or
 Elective Geography (Year)
 Minor (Year)
 Physical Education (Year)

JUNIOR YEAR

Education 344, 345, 440
 Geography (12 q. hrs. Advanced)**
 Social Science 254, 255, Speech 345
 Geography 340, Elective (8 q. hrs.)

SENIOR YEAR

Education 441, 442, 443
 Geography (12 q. hrs. Advanced)
 Minor (12 q. hrs.)
 Elective (12 q. hrs.)

*Four quarter hours are to be chosen from Social Science 233, 234, 235.

** At least two regional courses are recommended for the Geography majors as well as 12 quarter hours of Economic Geography.

HOME ECONOMICS*(For students who entered prior to September, 1961)*

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

SOPHOMORE YEAR
 Education 230, 232, Psychology 231
 Chemistry 153, 154, 155
 Home Economics 202, 203, 204
 Home Economics 232, Botany 234,
 Home Economics 245-46
 Physical Education (Year)

JUNIOR YEAR
 Home Economics 330, 304, 340
 Home Economics 346, 347, 320
 Social Science 271, Home Economics 345,
 Education 345
 Elective (Year)

SENIOR YEAR
 Education 441, Speech 345, Education 440
 Education 442, Home Economics 344,
 Social Science 254
 Education 443, Elective, Elective
 Education 458, Elective, Elective

2.5 average is required to qualify for teaching in Vocational schools.

INDUSTRIAL ARTS*(For students who entered prior to September, 1961)*

FRESHMAN YEAR
 English 120, 121, 125
 Industrial Arts 134, 135, 150
 Laboratory Science or first sequence
 in Minor (Year)
 Health Education 120, Industrial
 Arts 100, 130
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR
 Education 230, 232, Psychology 231
 First sequence in Minor or
 Laboratory Science (Year)
 Industrial Arts 231, 232, 245, 265
 Industrial Arts 259, 260,
 Elective (4 q. hrs.)
 Physical Education (Year)

JUNIOR YEAR
 Industrial Arts 336, Speech 345
 Industrial Arts 340
 Industrial Arts 352, 354, 320
 Education 344; 345, or 458
 Elective (4 q. hrs.)
 Social Science 233, 234, 254

SENIOR YEAR
 Industrial Arts 350, 355, Elective
 Education 440, Elective (8 q. hrs.)
 Teaching 441, 442, 443
 Minor (12 q. hrs.)

MATHEMATICS*(For students who entered prior to September, 1961)*

FRESHMAN YEAR
 Mathematics (16 q. hrs.)^{1,2,3}
 Laboratory Science (12 q. hrs.)
 English 120, 121, 125
 Health Education 120
 Minor or Elective (4 q. hrs.)⁴
 Library 120
 Physical Education (Year)

SOPHOMORE YEAR
 Mathematics (16 q. hrs.)
 Education 230, 232
 Psychology 231
 Social Science (8 q. hrs.)⁵
 Minor or Elective (12 q. hrs.)⁴
 Physical Education (Year)

JUNIOR YEAR
 Mathematics (16 q. hrs.)
 Education 344, 345
 Speech 345
 Minor or Elective (20 q. hrs.)

SENIOR YEAR
 Education 440, 441, 442, 443
 Elective (32 q. hrs.)

NOTES.

¹ Requirement for a major in mathematics is 48 quarter hours: (a) Mathematics 125, 134, 228, 233, 235, 236, 340, 343, 344, 345, and (b) advanced mathematics electives, 8 q. hrs., (350 or higher).

² In planning student programs it is important to check the course prerequisites. These are listed in the section "Description of Courses".

³ Students may be required to take one or two of the courses, Mathematics 128, 129, 130, 131 as prerequisites for Mathematics 134. Since the content of 128, 129 duplicates that of 130, 131, the maximum amount of credit from these four courses which may be counted toward graduation is 8 quarters hours.

⁴ Mathematics 227 is recommended as an elective during the first or second year.

⁵ Four quarter hours must be chosen from Social Science 233, 234, 235.

MUSIC

(For students who entered prior to September, 1961)

I. (High School Certificate)

FRESHMAN YEAR

English 120, 121, 125
 Physics 120, 121, 122
 Music 123, 124, 125
 Music 146, 147, 238
 Applied Music (6 q. hrs.)
 Physical Education (Year)
 Library 120
 Ensemble (no credit)

JUNIOR YEAR

Education 345, 440, Music 339
 Music 449, 450, 451
 Music 351, 352, 353
 Music 337, Elective (4 q. hrs.)
 Music 347
 Applied Music (6 q. hrs.)
 Ensemble (3 q. hrs.)

SOPHOMORE YEAR

Music 230, 231, 232
 Social Science 233, 234, Health
 Education 120
 Education 230, 232, Psychology 231
 Music 236, 338, 237
 Applied Music (6 q. hrs.)
 Ensemble (3 q. hrs.)
 Physical Education (Year)

SENIOR YEAR

Education 441, 442, 443
 Elective (22 q. hrs.)
 Music 340, Speech 345
 Applied Music (3 q. hrs.)
 Ensemble (3 q. hrs.)

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 three major ensembles is recommended. Credit is given at the end of the spring quarter of the last three years as indicated above. A minimum of 6 q. hrs. is required.

II. (Limited Special Certificate in Music)^{**}

FRESHMAN YEAR

English 120, 121, 125
 Physics 120, 121, 122
 Music 123, 124, 125
 Music 146, 147, 238
 Applied Music (6 q. hrs.)
 Physical Education (Year)
 Library 120
 Ensemble (no credit)

JUNIOR YEAR

Music 351, 352, 353
 Elective, Music 339, Music 337
 Education 440, Elective, Education 345
 Music 449, 450
 Applied Music (6 q. hrs.)
 Ensemble (2 or 3 q. hrs.)

SOPHOMORE YEAR

Social Science (8 q. hrs.),*
 Health Education 120
 Education 230, 232, Psychology 231
 Music 230, 338, 237
 Music 230, 231, 232
 Applied Music (6 q. hrs.)
 Ensemble (2 or 3 q. hrs.)
 Physical Education (Year)

SENIOR YEAR

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

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

** Qualifies to teach in grades one through twelve.

PHYSICAL EDUCATION*(For students who entered prior to September, 1961)**(High School and Special Certificate)**(1) Men***FRESHMAN YEAR**

English 120, 121, 125
 Zoology 120, 121, 225
 Physical Education 150, Health
 Education 120, Physical
 Education 121
 Physical Education 120, Social
 Science 284, 235
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Physical Education 244, 227,
 Elective
 Education 230, 232, Psychology 231
 Physical Education Activities
 (12 q. hrs.)*
 Minor (Year)
 Physical Education (Year)

JUNIOR YEAR

Coaching Courses (16 q. hrs.)§
 Physical Education 340
 Education 344, 345, Speech 345
 Physical Education Activities
 (4 q. hrs.)*
 Physiology 345
 Electives (8 q. hrs.)

SENIOR YEAR

Education 441, 442, 443
 Physical Education 451, 452,
 Education 440
 Minor (Year)
 Electives (12 q. hrs.)

* Four courses selected from Physical Education 203, 204, 205, 206, 207, 208 and four courses selected from Physical Education 210, 211, 212, 213, 214, 215, 217, 218.

§ The courses in coaching are Physical Education 347, 348, 349, 350, 357, 358, 359, 360. At least three of the four courses must be selected from 347, 348, 349, 350.

*(2) Women***FRESHMAN YEAR**

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

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Physical Education 244, 235, 352
 Physical Education 233, 234, 236
 Minor (Year)
 Physical Education (Year)

JUNIOR YEAR

Education 344, 345, Physiology 345
 Minor (Year)
 Physical Education 346, Health
 Education 320, Physical Education 353,
 Physical Education 450, 451, 458
 Physical Education (Year)

SENIOR YEAR

Education 441, 442, 443
 Speech 345, Education 440, Elective
 Elective (Year)
 Elective (Year)
 Physical Education (Year)

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

All majors register for two physical education activities each term of residence, unless excused by the staff of the physical education department as having satisfactory skill in the activities, until a total of at least 22 have been completed. All majors are required to take part and receive credit in the activities of Women's Athletic Association each term of residence and to assist with sports days and the annual dance concert.

PHYSICS*(For students who entered prior to September, 1961)***FRESHMAN YEAR**

English 120, 121, 125
 Physics 130, 131, 132
 Mathematics 130¹, 131¹, 134
 Elective (Year) (Preferably Chemistry)
 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 345, 344, Physics 340
 Social Science (8 q. hrs.)*
 Health Education 120
 Elective (Year)

SENIOR YEAR

Education 440, Speech 345, Elective
 Education 441, 442, 443
 Physics (Year)
 Advanced Elective (Year)

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

¹ See Note I under Mathematics.

SOCIAL SCIENCE*(For students who entered prior to September, 1961)***FRESHMAN YEAR**

English 120, 121, 125
 Social Science 148, 147, 148
 Social Science 233, 234, 235
 Geography 150, 151, Health
 Education 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, 440, 344
 Speech 345, Geography 360, Social
 Science 340
 Social Science 254, 255, 256 or
 Social Science 261, 262, 265 or
 Social Science 270, 271, 272*
 Elective (Year)

SENIOR YEAR

Education 441, 442, 443
 Advanced Social Science Electives
 (24 q. hrs.)
 Advanced Electives (Year)

* The sequence not already completed.

SPEECH*(For students who entered prior to September, 1961)***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
 Health Education 120, Speech 256
 or Zoology 225, Music 229
 Minor (Year)
 Physical Education (Year)

JUNIOR YEAR

Speech 433, Speech Elective,
 Speech 445
 Education 440, 344, 345
 Minor (Year)
 Elective (Year)

SENIOR YEAR

Education 441, 442, 443
 Speech Elective (Year)
 Elective (Year)
 Elective (Year)

* Four quarter hours 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 433, 451, 452, 455, 456, 457, 458, 459; four courses in Biological Science including Zoology 225 and Physiology 345; Psychology 451 and 455. Education 469 or 328 is recommended.

ZOOLOGY*(For students who entered prior to September, 1961)***FRESHMAN YEAR**

English 120, 121, 125
 Elective (Year)
 Chemistry 120, 121, 122 or 150, 151,
 152
 Zoology 120, 121, 122
 Physical Education (Year)
 Library 120

SOPHOMORE YEAR

Education 230, 232, Psychology 231
 Social Science (8 q. hrs.),* Health
 Education 120
 Botany 120, 121, 122
 Zoology 230, 231, 232
 Physical Education (Year)

JUNIOR YEAR

Geography 140, Education 345, Zoology
 340
 Education 440, 344, Speech 345
 Botany 230, 231, 235
 Zoology 343, 344, 345

SENIOR YEAR

Education 441, 442, 443
 Advanced Elective (Year)
 Advanced Elective (Year) Major
 Elective (Year) Minor

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

MANUAL ARTS THERAPY*(Effective September 1, 1961)**(Degree, Bachelor of Science in Education)***FRESHMAN YEAR**

	q. hrs.
English 120, 121	8
Speech 131	4
Health Education 120	4
Laboratory Science	12
Industrial Arts 134, 135 136 ,150	16
Mathematics	4*
Physical Education	(3)
Library 120	(1)

SOPHOMORE YEAR

	q. hrs.
Psychology 281	4
Industrial Arts 231, 232, 259, 260, 245, 265	20
Art	12
General requirements	12*
Physical Education	(3)

JUNIOR YEAR

	q. hrs.
Industrial Arts 340, 336, 326, 352, 354	20
Sociology	12
Psychology (advanced)	4
Education	8
General requirements	4*

SENIOR YEAR

	q. hrs.
Psychology (advanced)	8
Recreational Crafts	4
Student Teaching and Internship	16
Education	4
General requirements and electives	16*

*Subject to exemptions as outlined in the General Requirements for the degree.

MINORS FOR THE DEGREE B.S. IN ED.

The following minors are acceptable for graduation in the teacher education curricula for secondary schools, but they may not satisfy all of the requirements set forth in the *Guide to Supervision, Evaluation, and Recognition of Illinois Schools*. Students who plan to teach in their minor should add the courses listed in the notes marked with asterisk (*).

Art:

Seven courses in art; three courses must be chosen from Art 100, 101, 102, 110, 111, 112, 130, 131; the other four courses may be selected in relation to the major field with the approval of the head of the department.

*Add four quarter hours in art.

Botany:

Botany 120, 121, 122, and three courses approved by the head of the department.

°To satisfy the requirements for teaching in the biological science field, include Botany 235 among the botany courses and add Zoology 120, 121, 122.

Business:

One year's work in each of two fields. It is recommended that these combinations be shorthand and typewriting; accounting and business law; accounting and typewriting; accounting and retailing.

°Add eight quarter hours elective credit in business.

Chemistry:

Chemistry 120, 121, 122 or 150, 151, 152, and three other courses in chemistry as approved by the head of the department.

°Add Physics 130, 131, 132.

English:

English 230, 231, 234, 237, 240, 325, 326, 347, 348, 452, 454 may be used for credit toward a minor in English as recommended by the head of the department. It is recommended that English 230 or 231, 234, 326 and 327 always be included. Twenty-four quarter hours of courses numbered above 200 are required for the minor.

Foreign Language:

Twenty-four quarter hours in a single language.

°Add eight quarter hours in the language.

Geography:

Geography 140, 141, 142 and three other courses approved by the head of the department; or Geography 150, 151, 152 and three other courses approved by the head of the department; or Geography 300, 301, 302 and three other courses approved by the head of the department.

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. A Health Education minor is acceptable as a second minor only.

°Add Health Education 120 and two additional courses from the above list.

Home Economics:

Home Economics 102, 201, 202, 232, 320 or 330, 346 or 347.

°Add twelve hours in home economics including Home Economics 345.

Industrial Arts:

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

°Add twelve quarter hours in industrial arts. Preparation to teach wood work, metal work and general shop must include Industrial Arts 232.

Journalism:

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

Library Science:

Library Science 250, 324, 325, 326, 330, 350 are required; Library Science 441 and Education 487 are recommended in addition.

Mathematics:

Twenty-four quarter hours including Mathematics 134, 228, 235, 236.

°Add eight quarter hours in mathematics as recommended by the head of the department.

Music:

Elementary School Music: Music 123, 124, 125, 230, 231, 339, 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; participation in at least one of the following University 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; participation in University choral organizations each year of residence is required.

Instrumental Music: Music 123, 124, 230, 231; Music 146, 147, 236, 237, 337, 338 (three to five quarters); Music 347, 449, 450, a total of 28 to 32 quarter hours; ability to teach beginning pupils in band and orchestral instruments, and ability to develop instrumental organizations effectively, as demonstrated through supervised teaching; participation in the Band and Orchestra each year of residence.

°Increase each minor in music to 30 quarter hours.

Physical Education, Men:

Physical Education 340, 452; Physical Education 227 or 244 or Zoology 225 or Physiology 345; four quarter hours chosen from Physical Education 203, 204, 205, 206, 207, 208; four quarter hours chosen from Physical Education 210, 211, 212, 213, 214, 215; Physical Education 347 or 348 or 349 or 350; one additional course in coaching. Total twenty-four quarter hours.

°Add Health Education 120.

Physical Education, Women:

Physical Education 346 and 458 together with four courses chosen from Physical Education 233, 234, 132, 353, 351, 356; Health Education 320. At least one course must be chosen from 233, 234, 353.

Minors are expected to register for one activity each term of residence (unless excused by the staff of the Physical Education Department as having satisfactory skill in the activities) and to participate in the activities of the Women's Athletic Association.

°Add Health Education 120.

Physics:

Physics 130, 131, 132 and three courses in physics numbered above 200.

°Add Chemistry 120, 121, 122 or 150, 151, 152.

Psychology:

Psychology 231, 351, 447, 450, 452; 451 or 455. A minor in Psychology may be used as a second minor only, except in curricula in which no minor is required.

Recreation:

Physical Education 132 and five courses chosen from Physical Education 131, 228, 351, 355, 356, 513, 528, Art 334, Industrial Arts 452, Speech 431, 445. May be offered as a second minor only.

Social Science:

Social Science 233, 234, 235 and any other one-year sequence in social science. It is strongly recommended that this second sequence be Social Science 146, 147, 148 if the student is planning to teach history in high school or junior high school.

°Add at least twelve quarter hours in social science, and insure that at least one course each in world history, government, sociology, economics, and geography have been included in the total set of courses.

Speech:

Speech 130, 131, 132, 231, 433, 445. Majors in elementary education who wish a minor in speech are encouraged to take as their minor: Speech 130, 131, 132, 433, and two courses chosen from Speech 335, 431, 451. Students who take Speech 131 may not take Speech 345 for credit, and are exempted from Speech 345 as a graduation requirement.

Speech Correction:

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

Zoology:

Zoology 120, 121, 122 and three courses as approved by the head of the department.

*Add at least twelve quarter hours in botany, including Botany 235.

VIII. GENERAL COLLEGE CURRICULUM

The aim of the General College Curriculum is to provide a sound general education and a measure of specialization to students who wish to use the facilities of the University for this purpose and who do not wish to prepare for a career in teaching. The requirements for the degrees, and a desirable sequence appear below. The student's adviser will help in making decisions concerning choice of courses and altering of the sequence, but it is the responsibility of the student to satisfy all of the requirements for his degree, to check on his eligibility to take courses, and to observe the academic rules governing his program.

BACHELOR OF SCIENCE

(For students who entered prior to September, 1961)

FRESHMAN YEAR

English 120, 121, 123¹
Health Education 120. Psychology 231.
Education 232
Major (Year)
Elective² (12 q. hrs.)
Physical Education (Year)
Library 120

JUNIOR YEAR

Social Science 254, 261, 271⁵
Fine Arts (Year)
Major (Year)
Minor (Year)

SOPHOMORE YEAR

Social Science 233, 234, 235
or 146, 147, 148³
Science or Mathematics⁴
Major (Year)
Elective (12 q. hrs.)
Physical Education (Year)

SENIOR YEAR

Literature⁶ (Year)
Major (Year)
Minor (Year)
Elective (12 q. hrs.)

¹Speech 130 may be substituted for English 125.

²Courses in education, student teaching and methods of teaching are not acceptable as electives in this curriculum.

³If Social Science 146, 147, 148 are chosen, a course in American History must be elected in addition.

⁴A choice of any of the laboratory sciences acceptable for the degree, B. S. in Ed., or Mathematics 130, 131, 134, or Geography 140, 141, 142.

⁵Another course in each of the fields. Economics, Political Science, Sociology, as recommended by the adviser and approved by the Social Science Department may be substituted for Social Science 254, 261, 271 respectively.

⁶Three courses in World Literature or American Literature or English Literature, as recommended by the adviser and approved by the department.

BACHELOR OF ARTS

(For students who entered prior to September, 1961)

The curriculum for the degree, Bachelor of Arts, B.A., is the same as that for the degree, B.S., except that the student must elect twenty-four quarter hours in a foreign language. The foreign language satisfies the minor requirement.

Requirements for the Degrees, Bachelor of Science and Bachelor of Arts

(Effective September 1, 1961, for students entering for the first time either as freshmen or transfer students.)

I. General Requirements

(Subject to modification by exemptions described in Section IV)

	B.S.	B.A.
English Composition (English 120, 121)	8 q. hrs.	8 q. hrs.
Speech	4 q. hrs.	4 q. hrs.
Science	24 q. hrs.	12 q. hrs.
History	16 q. hrs.	16 q. hrs.
Social Studies	16 q. hrs.	16 q. hrs.
Humanities	16 q. hrs.	24 q. hrs.
Mathematics	8 q. hrs.	8 q. hrs.
Foreign Languages	24 q. hrs.	36 q. hrs.
Health Education (Health Education 120)	4 q. hrs.	4 q. hrs.
Library 120	(1 q. hr.)	(1 q. hr.)
Physical Education Service Courses	(6 q. hrs.)	(6 q. hrs.)

Credit listed in parentheses is nominal credit to be earned in addition to 192 q. hrs. of academic courses required for graduation.

II. Majors and Minors

A major of 48 q. hrs. and a minor of 24 q. hrs. are required for graduation. Certain courses may apply toward both the general requirements and the major or the minor.

III. Definitions and Restrictions

Science. The sciences are classified in two fields, biological sciences and physical sciences. The biological sciences comprise general biology, botany, and zoology. The physical sciences comprise chemistry and physics. Twelve quarter hours in each of these fields constitutes the normal requirement for the degree, B.S., while 12 q. hrs. in one field constitutes the normal requirement for the degree, B.A.

History. History courses may be classified as American History, European History, Latin American History, World History, etc. At least two of these fields of history must be included in meeting the normal requirement.

Social Studies. The social studies area is defined to include economics, political science, sociology, psychology, and geography. The normal requirement of 16 q. hrs. must include work in two of these subjects.

Humanities. This area comprises art, music, literature, and philosophy. The normal requirement of 16 q. hrs. for the degree, B.S., requires work in at least two of these subjects; the normal requirement of 24 q. hrs. for the degree, B.A., requires work in at least three of these subjects.

Mathematics. Courses in college mathematics other than courses in methods of teaching mathematics may be used to satisfy this requirement.

Foreign Languages. The normal requirement of 24 q. hrs. for the degree, Bachelor of Science, must consist of courses in a single language. The normal requirement of 36 q. hrs. for the degree, Bachelor of Arts, must, likewise, consist of courses in a single language.

Acceptable Unit. In defining exemptions in Section IV an acceptable unit is defined as two semesters of high school work, taken five periods per week with a B average by a student who ranked in the upper two-thirds of his high school class.

IV. Exemptions

A student who presents two acceptable units in physical sciences may be exempt from the physical science requirement and have the total science requirement for the degree, Bachelor of Science, reduced to 12 q. hrs. in biological science. A student who presents two acceptable units in biological science may have the total science requirement reduced to 12 q. hrs. in physical science. Regardless of exemptions, the candidate for the degree, Bachelor of Science, or the degree, Bachelor of Arts, must take at least 12 q. hrs. in one of the fields in the science area.

A student who presents one or more acceptable units in history may have the history requirement reduced to 8 q. hrs., with this work taken in a subject different from that in which the exemption was earned.

A student who presents one or more acceptable units in any of the subjects in the humanities area may have the requirement reduced by 4 q. hrs.

A student who presents one or more acceptable units in college preparatory mathematics may have the mathematics requirement reduced by 4 q. hrs. for each such acceptable unit.

A student who presents two acceptable units in a given foreign

language from high school may have the foreign language requirement reduced by 12 q. hrs. provided the remaining 12 q. hrs. are taken in the same language at the second year college level. Students who present four acceptable units of a single language from high school may omit the foreign language requirement for the degree, Bachelor of Science; or they may reduce the requirement for the degree, Bachelor of Arts, from 36 q. hrs. in a single language to 12 q. hrs. in that language at the third or fourth year level.

The definition of college preparatory mathematics for the degrees, Bachelor of Science and Bachelor of Arts, is the same as the definition given under the requirements for the degree, Bachelor of Science in Education. The provision for placement examination in foreign languages described for the degree, Bachelor of Science in Education, likewise obtains for the degrees, Bachelor of Science and Bachelor of Arts.

Exemptions do not establish college credit; instead, they free the student for greater flexibility in planning his college courses by permitting more elective credit.

Students who are not eligible for exemptions under the rules above may apply for examination in high school subjects in which they feel confident that they have adequate background.

MEDICAL TECHNOLOGY

(Degree, B.S.)

FRESHMAN YEAR		q. hrs.	JUNIOR YEAR		q. hrs.
English 120, 121		8	Foreign Language		12
Speech 131		4	Chemistry 343, 344		8
Health Education 120		4	Zoology 227 or 446		4
Zoology 120, 121		8	General requirements (Humanities and Social Studies) and electives		24
Mathematics 128, 129; or 130, 131		8			
Botany 120		4			
Chemistry 120, 121, 122; or 150, 151, 152		12			
Library 120		(1)			
Physical Education		(3)			
SOPHOMORE YEAR		q. hrs.	SENIOR YEAR		q. hrs.
Foreign Language		12	Completion of Medical Technology in affiliated hospital program		48
Chemistry 234		4			
Botany 235		4			
Zoology 225		4			
Psychology 231		4			
General requirements (Humanities and History)		20			
Physical Education		(3)			

BUSINESS*(Degree, B.S.)**(For students who enter after September 1, 1961)*

FRESHMAN YEAR	q. hrs.	JUNIOR YEAR	q. hrs.
English 120, 121	8	Foreign Language	12*
Speech 131	4	Major	12
Health Education 120	4	Minor	12
Mathematics	8*	General Requirements	12
Laboratory Science	12		
Business (Foundation courses)	12		
Library 120	1		
Physical Education Service Courses	3		
SOPHOMORE YEAR	q. hrs.	SENIOR YEAR	q. hrs.
Laboratory Science	12	Major	12
Social Science 254, 255, 256	12	Minor	12
Foreign Language	12*	General Requirements and Electives	24*
Major (foundation courses)	12		
Physical Education	3		

*Note: Subject to exemptions as described in the general plan for the degree Bachelor of Science.

REQUIRED FOUNDATION COURSES

Business 110, 111 (or typing proficiency equivalent to 30 net words per minute for a period of 5 minutes).

Business 140, 141, 142, 230, 231, 232, 247, 446, 447, 451.

MAJOR CONCENTRATIONS

The student will choose one of the following concentrations and include these courses in his major field.

Accounting: Business 454, 455, 456, 460, 461, 464.

Marketing: Business 248, 249, 250, 481, and Social Science 456; 4 q. hrs. elective credit in Business.

General Business Administration: Business 212 or 383; 248 or 249 or 250; 452 or 453; 480 or 481; Social Science 456 or 458 or 459; 4 q. hrs. elective credit in Business.

Secretarial: Business 210, 212, 223, 224, 453; 4 q. hrs. elective credit in Business.

PLACEMENT TESTS

Students who have had bookkeeping, shorthand or typewriting must take a placement test in these subjects prior to enrollment. This is to enable students and their advisers to plan programs of study best adapted to the needs and abilities of the students.

**MINORS ACCEPTABLE FOR THE GENERAL COLLEGE
CURRICULUM, DEGREES B.A. AND B.S.***Art:*

Six courses approved by the head of the department.

Botany:

Botany 120, 121, 122 and 12 quarter hours approved by the head of the department.

Business:

Twenty-four quarter hours in shorthand and typing or 24 quarter hours in accounting and related courses or 24 quarter hours in law, marketing, and management.

Chemistry:

Chemistry 120, 121, 122 or 150, 151, 152, and one of the following sequences:

Chemistry 233, 234, 235; Chemistry 234, 343, 344; Chemistry 343, 344, 345; Chemistry 234, 343, 356; Chemistry 361 with two other courses approved by the head of the department.

English:

Six courses numbered above 200, excluding English 340.

Foreign Language:

Two years work in a language.

Geography:

Geography 140, 141, 142 and three courses approved by the head of the department.

Mathematics:

Mathematics 236, and 5 courses to be selected from the following: 130, 131, 134, 228, 235, 343, 344, 345, 350, 351, 460, 461, 470, 480, 490.

Music:

Music 123, 124, 125, 230, 231, 353, and 6 quarter hours approved by the head of the department.

Psychology:

Psychology 231, 351, 360, 447; 451 or 455; 450 or 452.

Physics:

Physics 130, 131, 132, and 12 quarter hours approved by the head of the department.

Social Science:

Twenty-four quarter hours in one of the following fields: history, economics, government, sociology.

Speech:

Speech 130, 131, 132 and 3 additional courses approved by the head of the department.

Zoology:

Zoology 120, 121, 122 and 12 quarter hours approved by the head of the department.

TWO YEAR 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 University.

FIRST YEAR	SECOND YEAR
English 120, 121; Speech 131	Social Science 233, 234, 235
Laboratory Science ¹ (Year)	Foreign Language ³ (Year)
Elective ² (24 q. hrs.)	Elective ⁴ (Year)
Physical Education	Elective ⁵ (Year)
Library 120	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; Speech 131
 Mathematics 130¹, 131¹, 134
 Electives (24 q. hrs.)*
 Physical Education (Year)
 Library 120

SECOND YEAR

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

*The elective courses must include Physics, 130, 131, 132, Chemistry 120, 121, 122 or 150, 151, 152, 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 250, 236, 238, and Foreign Languages.

¹ See note 1 under Mathematics.

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.

FIRST YEAR

Chemistry 120, 121, 122 or 150, 151
 152
 English 120, 121; Speech 131
 Mathematics 130, 131, 134
 Physics 130, 131, 132 or Foreign
 Language (German or French)
 (12 q. hrs.)
 Physical Education (Year)
 Library 120

SECOND YEAR

Chemistry 233, 234, 235
 Mathematics 235, 236, 345
 Industrial Arts 231, Physics 239, Elective
 or Physics 130, 131, 132
 Foreign Language or Elective
 Physical Education (Year)

Two years of German or French are required in the Chemical Engineering Curriculum at most universities.

PRE-MEDICAL COURSES

The courses in this curriculum are 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

Chemistry 120, 121, 122 or 150, 151
 152
 English 120, 121; Speech 131
 Zoology 120, 121 and 232 or 230
 Mathematics 130, 131, (or 128, 129)
 Elective (4 q. hrs.)
 Physical Education (Year)
 Library 120

SECOND YEAR

Chemistry 234, 343, 344
 Foreign Language (Year)
 Physics 130, 131, 132
 Social Science (Year)
 Physical Education (Year)

Recommended electives:

Chemistry 235, 345, Psychology 231, Mathematics 134, English, Social Sciences, Geography.

PRE-DENTAL COURSES**FIRST YEAR**

Chemistry 120, 121, 122 or 150, 151
152
English 120, 121; Speech 131
Zoology 120, 121, Health
Education 120
Electives (12 q. hrs.)
Physical Education
Library 120

SECOND YEAR

Chemistry 343, 344, Zoology 122
Foreign Language (Year)
Physics 130, 131, 132
Electives (12 q. hrs.)
Physical Education

Recommended electives:

Chemistry 345, 234, 235, Psychology 231, Zoology 346, 440, Botany 120, 121, 122, Mathematics 130, 131, Social Sciences, Geography.

COURSES PREPARATORY TO THE STUDY OF CONSERVATION

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

FIRST YEAR

English 120, 121; Speech 131
Mathematics 130, 131, 233
Botany 120, 121, 122
Chemistry 120, 121 or 150, 151;
Geography 140
Physical Education (Year)
Library 120

SECOND YEAR

Physics 130, 131
Geography 141, 142, 380, 387
Industrial Arts 231, 232
Botany 351
Social Science 234, 235, Elective
Physical Education (Year)

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; Speech 131
Chemistry 120, 121, 122 or 150, 151
152
Mathematics 130, 131, 134
Geography 140, 141, 142
Physical Education (Year)
Library 120

SECOND YEAR

Physics 130, 131, 132
Mathematics 235, 236, 345
Geography 380, Industrial Arts
231, 232
Suggested Electives (4 q. hrs.)
Physical Education (Year)

COURSES BASIC TO STUDY OF JOURNALISM

The program suggested below is designed to provide a general background for prospective journalism majors. Students with definite plans for transfer should consult the requirements of the journalism school to which they intend transferring, and adjust their program accordingly.

FIRST YEAR

English 120, 121; Speech 131
Laboratory Science (Year)
Elective¹ (Year)
Elective² (Year)
Physical Education (Year)
Library 120

SECOND YEAR

English 230, 231, 234 or 237
English 210J, 211J, 212J
Social Science 233, 234, 235
Elective³ (Year)
Physical Education (Year)

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

² Social Science 140, 147, 148 are strongly recommended.

³ Following are recommended: Courses from Geography 150, 151, 152, Music 229, Industrial Arts 259, 280, Social Science 254, 255, 256, 261, 262, 265, 270, 271, 272.

PRE-LEGAL COURSES**FIRST YEAR**

Social Science 233, 234, 235
 English 120, 121; Speech 131
 Health Education 120, Social
 Science 147, 148
 Laboratory Science (Year)
 Physical Education (Year)
 Library 120

SECOND YEAR

Social Science 254, 255, 256
 Business Education 230, 231, 232
 Social Science 265, English 344,
 Speech 345
 Speech 231, Elective, Elective
 Physical Education

Note: For those students entering certain law schools that require a third year of pre-law work, the following courses should be taken: Bus. Ed. 454, 455, 456, Soc. Sci. 343, 344, 345, a year of English Literature, and three elective courses.

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

Recommended electives:

Social Science, Speech, Latin.

COURSES BASIC TO GENERAL AND VOCATIONAL AGRICULTURE, HORTICULTURE, FLORICULTURE, AND FORESTRY**FIRST YEAR**

English 120, 121; Speech 131
 Botany 120, 121, 122
 Chemistry 120, 121 or 150, 151
 Health Education 120, Electives
 (12 q. hrs.)
 Physical Education (Year)
 Library 120

SECOND YEAR

Botany 225, 231, 235 (or 232)
 Geography 140 or Elective
 Zoology 120, 121
 Electives (24 q. hrs.)
 Physical Education (Year)

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 230, 235, 344, 349, 351, 346, Zoology 120, 121, 122, Geography 140, 141, 142, 151, Social Science 233, 234, 235, 254, 255, 256, Industrial Arts 231, 232, 233.

PRE-VETERINARY COURSES**FIRST YEAR**

Botany 120, Zoology 120, 121
 Chemistry 120, 121, 122 or 150, 151
 152
 English 120, 121; Speech 131
 Mathematics 130, 131, Electives
 (4 q. hrs.)
 Physical Education (Year)
 Library 120

SECOND YEAR

Chemistry 234, 343, 344
 Foreign Language (Year)
 Physics 130, 131, 132
 Electives (Year)*
 Physical Education (Year)

* Eight quarter hours should be in the field of social science.

PRE-PHARMACY COURSES

(One year)

Chemistry 120, 121, 122 or 150, 151, 152
 English 120, 121; Speech 131
 Mathematics 130, 131, 134 or 125, 128, 129

Elective (one year). to be selected in terms of the requirements of the College of Pharmacy selected by the student.

Suggested electives: botany, physics, psychology, social studies, zoology.

IX. EXTENSION SERVICES

Organization. Classes may be organized in communities in which fifteen 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. Undergraduate courses are open to high-school graduates. They may be audited or taken for credit. The regular fees are required of auditors. Graduate courses are subject to the same entrance requirements as the same courses taught in residence.

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.

Registration Procedures. Students in extension courses register and pay fees by mail, following instructions and using materials furnished by the instructor at the first and second meetings of the class.

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 University Textbook Library, the rental fee is waived and the members of the class must buy their own books.

Holders of Lindly, Teacher Education or Illinois Military Scholarships are required to pay the textbook rental (\$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 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.

X. GRADUATE STUDY

AIM

It is the purpose of the program of graduate study at Eastern Illinois University to offer experiences designed to advance the professional and personal competence and scholarship of teachers and other educational workers in public schools.

ADMISSION

Admission to take graduate courses is granted upon evidence of a standard baccalaureate degree from an accredited college or university. Admission to courses is not to be interpreted as admission to candidacy for the degree, M.S. in Ed.

An application, together with transcripts certifying the bachelor's degree and any subsequent work in other institutions, must be filed at least ten days before the first registration for graduate courses. Application blanks may be secured from the Dean of the Faculty.

A student who holds a baccalaureate degree is known as a graduate student only if he has applied for and has been accepted to take graduate courses. Otherwise he is known as a special student. (See page 69.)

ADVISER

Each student is assigned to an adviser. It is the responsibility of the adviser to counsel with the student in his choice of courses, to sponsor his application for admission to candidacy, to approve his paper, and to arrange his examination. Other faculty members may be appointed to share any of these responsibilities.

ADVANCED STANDING

Credit, not to exceed twelve quarter hours, may be allowed for graduate courses completed in other institutions provided such courses are recommended in the student's petition for candidacy and approved as part of his program of studies.

ADMISSION TO CANDIDACY

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 re-

quired for the degree, B.S. in Ed., in Eastern Illinois University. Usually, one who holds a regular teachers certificate valid in Illinois can meet this requirement. Deficiencies must be made up through additional undergraduate courses.

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 totalling at least 48 quarter hours selected in accordance with the Plan of Studies.

3. Admission to candidacy will result from:

- a. Approval of the petition, or acceptance by the student of a modified program prescribed by the Graduate Council together with:
- b. The completion of 12 quarter hours of courses of the approved program, with grades that average 3.0, and with grades in all graduate courses taken, including those which may not have been included in the program, averaging at least 2.5.

The Graduate Council 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 2.5.

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.

REQUIREMENTS FOR GRADUATION

The degree, 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 Graduate Council, with grades that average B (3.0) 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 an acceptable paper has been written and approved. For further information concerning the paper, consult the Graduate Bulletin.

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.

5. Registration or revision of previous registration in the Placement Bureau.

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

PLAN OF STUDIES

The courses for the degree, Master of Science in Education, must total at least 48 quarter hours, chosen in accordance with a plan intended to be consistent with the statement of the purpose of graduate study at Eastern Illinois University. At least 24 quarter hours of work included in the student's program must be in courses numbered 500 or above.

It is assumed that the personal and professional competence sought by the candidate has at least three contributing factors: basic educational theory, specialized professional knowledge and experiences, and continued cultural and intellectual development independent of the field of concentration; the plan, therefore, requires that the student's courses be identified with three groups defined as follows:

GROUP I (12 quarter hours)

Basic Courses In Education

It is the purpose of the courses of this group to present aspects of fundamental educational theory. Three courses must be chosen from the following:

Education 550. Principles of Curriculum Development

Education 551. Social Foundations of Education

Education 552. Understanding the Individual

Education 553. Philosophy of Education

Education 554. History of Educational Thought.

It is recommended that no more than one of these courses be taken in any quarter or summer term.

A student may petition for a proficiency examination in any of these courses; successful completion of the examination permits the substitution of elective courses of equivalent credit in the program of studies.

GROUP II (24 or 28 quarter hours)**Area of Concentration**

The courses of this group are intended to comprise an area of specialization. They may be taken in a single department or in more than one department; the unifying principle is their significance to the teaching field or the specialized professional work of the candidate. An important consideration in admission to candidacy for the degree, Master of Science in Education, is the unity displayed in the selection of the courses of this group.

GROUP III (12 or 8 quarter hours)

The courses of this group are intended to implement the assumption that continued cultural and intellectual development independent of the field of concentration may contribute significantly to professional and personal competence. It is intended that these courses shall provide new intellectual experiences, consequently, they should be chosen in fields that are new to the student. The courses acceptable in Group III are planned specifically for the purpose stated above. It is intended that they assume intellectual maturity but little or no previous introduction to the field of study. The following courses are currently acceptable in Group III: Art 550; Botany 550, 552; Classics 550, 551 (Literature in Translation); English 550, 551; Geography 550, 551, 552; Industrial Arts 550; Mathematics 550; Music 550, 551; Philosophy 550; Physical Education 550; Social Science 550; Zoology 550, 551.

XI. DESCRIPTION OF COURSES

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 except that courses numbered 300-499 in mathematics, foreign languages, and chemistry may be taken by sophomores who have completed the prerequisite courses and have obtained the permission of the department.

Courses numbered 100-199 may not be taken for full credit by seniors except for courses in foreign languages. Courses numbered 500-549 are graduate courses open with special permission to seniors.

Courses numbered 550-599 are open only to graduate students and, therefore, may not be used for credit toward a bachelor's degree. Certain courses numbered below 500 may be taken for credit toward the Master's degree.

ACCOUNTING

(See Business 230, 231, 232, 454, 455, 460, 461, 462, 463, 464)

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.

Certain courses require the purchase of materials by the student. In such cases, completed projects become the property of the student.

All courses offered for 4 or 8 or 12 quarter hours may be taken by a student for only 4 quarter hours during any quarter.

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

Freehand drawing in various media, studies from nature designed to develop an interpretative approach.

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

Drawing from life; a development of individual expression and a continuing study of drawing techniques.

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

Introduction to basic aspects of design problems dealing with color, texture, line, form, and organization.

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

Development of three-dimensional organization of forms using various media.

140 (130). INTRODUCTION TO ART. Every quarter. (4 q. hrs.)

A study of the functions of art in our environment. Studio problems provide creative experiences in designing with a variety of two and three-dimensional media.

160. INTRODUCTION TO VISUAL ARTS. Fall. (4 q. hrs.)

Study of the scope and influence of the visual arts on the culture of man, past and present. Emphasis on understanding the nature of art itself as revealed in works of painting, sculpture, architecture, and minor forms of art.

205 (230). PAINTING I. Winter and Spring. (4 q. hrs.)

Introduction to painting as a medium of expression. Variety of approaches and media explored.

225 (339). CERAMICS I. Every quarter. (4 q. hrs.)

Introduction to various hand-building techniques, decorative methods, firing process, and use of potter's wheel.

Prerequisite: Art 110, 111, or permission of instructor.

242. ART MATERIALS FOR THE ELEMENTARY SCHOOL.

Summer. (4 q. hrs.)

Materials and processes important in art program of elementary schools as applied to various levels of creative development of children; philosophy of art, art education, and creativity; studio problems dealing with appropriate materials.

244 (224). ART FOR TEACHERS IN THE ELEMENTARY GRADES.

Winter, Spring and Summer. (4 q. hrs.)

Study of the developmental stages of children's artistic activity; motivation, classroom management, and appropriate use of art media for each stage stressed. Studio problems provide experiences with wide variety of art media.

Prerequisite: Art 140.

260 (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.

261 (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.

262 (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.

270. INTRODUCTION TO JEWELRY AND ENAMELING I.

Fall and Winter. (4 q. hrs.)

Problems include decorative and constructive processes in the use of silver or other metals and in enameling on copper.

Prerequisite: Art 110, 111, or permission of instructor.

280. INTRODUCTION TO WEAVING AND TEXTILE DESIGN.

Omitted 1961-62. (4 q. hrs.)

Creative stitchery, block printing, and weaving. Study of the loom, its functions, and possibilities for creative weaving.

Prerequisite: Art 110 or 140.

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

Study of design and formation of basic styles of letters—Roman, Modern, and Text; development of skills of lettering with pen and brush.

Prerequisite: Art 110 or permission of instructor.

300. DRAWING III, IV, V. (Omitted 1961-62) (4 or 8 or 12 q. hrs.)

Advanced drawing designed to develop individual sensitivity to form in two dimensions; the development of an expressive and personal interpretation of dark and light shapes on a flat surface.

Prerequisite: Art 100, 101.

305. PAINTING II, III, IV. (Omitted 1961-62) (4 or 8 or 12 q. hrs.)

Study of types of painting; craftsmanship and expression in several media stressed through progressive stages of the three courses. Each student guided along ways of working most suited to his ability.

Prerequisite: Art 205.

310. SCULPTURE I, II, III. (Omitted 1961-62) (4 or 8 or 12 q. hrs.)

Advanced work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing.

Prerequisite: Art 111 or Art 225.

320. CRAFTS I. Fall and Winter. (4 q. hrs.)

Weaving and textile design; experimentation with various weaving techniques and the completion of projects in weaving on various types of looms.

321. CRAFTS II. Fall and Spring. (4 q. hrs.)

Metal-forming techniques and jewelry design stressed—prob-

lems in simple hammered wire jewelry, setting of stones, and making various types of jewelry using one or several metals.

322. CRAFTS III. Winter and Spring. (4 q. hrs.)

Work in leather, clay, and enamels; basic hand-building methods in clay such as slab and coil methods, and decorative techniques.

325. CERAMICS II, III, IV. (Omitted 1961-62) (4 or 8 or 12 q. hrs.)

Processes introduced in Ceramics I further explored and developed with the addition of simple mold techniques, glaze experimentation, and ceramic sculpture directly related to throwing, slab building, and coil building techniques; major emphasis upon throwing, but each student allowed considerable latitude in organizing his plan of work.

Prerequisite: Art 225.

334. GENERAL CRAFTS. (Omitted 1961-62) (4 q. hrs.)

A general course in crafts in which students may elect problems from these areas: weaving, block printing, silk screen, batik, enamels, jewelry, leather, pottery.

Open only to non-art majors and to those students wishing only one quarter in crafts. Students interested mainly in one craft should refer to Art 320, 321, or 322.

339. CERAMICS. Every quarter. (4 q. hrs.)

Emphasis on use of the potter's wheel, glazing, and firing of the kiln. Also included are hand building techniques and methods of decoration.

340. THE TEACHING OF ART. Winter. (4 q. hrs.)

Basic philosophy of the function of art. Study of the developmental stages of creative activity from the first representational attempts through adolescent art. Appropriate use of art media, motivation, and evaluation for each stage are stressed. Brief surveys of the history of art education, current research, and related literature included.

Prerequisite: Admission to teacher education.

341. ART EDUCATION LABORATORY. Winter and Spring. (4 q. hrs.)

Studio experiences in techniques and processes and their adaptation to the various stages of development, elementary through secondary; new approaches to materials; curriculum, unit, and lesson planning arising from these studio experiences.

Prerequisite: Admission to teacher education.

343. ART EDUCATION FOR SECONDARY SCHOOLS. (Omitted 1961-62) (4 q. hrs.)

Concerted study of use of certain materials, processes, and

projects in the secondary school program; fostering art and art appreciation in the high school.

Prerequisite: Art 340.

356 (455). PRINT MAKING I. (Omitted 1961-62) (4 q. hrs.)

Study of print processes and outstanding print makers; laboratory work in serigraphs, etchings and advanced block printing.

357. PRINT MAKING II. (Omitted 1961-62) (4 q. hrs.)

An intensive exploration of intaglio and serigraphy as two methods of print making. Major emphasis will be placed on the intaglio method.

Prerequisite: Art 356.

358. PRINT MAKING III. (Omitted 1961-62) (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

Prerequisite: Art 350.

360. ART IN HUMAN AFFAIRS. Fall and Summer. (4 q. hrs.)

A general study for the general education student of esthetic problems and their solutions in various fields of art as related to man and his culture.

361. ART IN PAST CULTURE. Winter. (4 q. hrs.)

A comparative study for the general education student of the art in past cultures as presented from the standpoint of subject matter in art.

Prerequisite: Art 360.

362. ART TODAY. Spring and Summer. (4 q. hrs.)

A study for the general education student of the significance of art in present day living. Derivation of contemporary art forms, processes, and techniques of expression.

Prerequisite: Art 360.

370. JEWELRY AND SILVERSMITHING II, III, IV. (Omitted 1961-62)
(4 or 8 or 12 q. hrs.)

Advanced problems in jewelry construction developing previously learned techniques in metal construction or enameling or both; introduction to basic silversmithing processes.

Prerequisite: Art 270.

380. WEAVING II. (Omitted 1961-62) (4 q. hrs.)

Experimentation and practice in design and production on various looms; characteristics of looms, principles of textile construction, and materials of the weaver.

Prerequisite: Art 280 or permission of instructor.

381. WEAVING III. (Omitted 1961-62) (4 q. hrs.)
Advanced problems in weaving design and production.
Prerequisite: Art 380.
382. TEXTILE DESIGN. (Omitted 1961-62) (4 q. hrs.)
Pattern design principles as they apply to historical and contemporary textiles; use of block printing, silk screen, and batik techniques as production methods.
Prerequisite: Art 110 or 140 or 280.
- 390 (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 other printing techniques studied.
Prerequisite: Art 110 or 140 or permission of instructor.
- 391 (460). COMMERCIAL DESIGN II. (4 q. hrs.)
Study of modern developments in the field of display advertising.
Prerequisite: Art 290, 390, or permission of instructor.
- 400, 401, 402. INDIVIDUAL PROBLEMS. Every Quarter.
(4 q. hrs. for each course.)
Independent advanced study in an area chosen by the student. For any one quarter, problems should be in one specific area or closely related areas.
Prerequisite: Permission of the department head and the instructor.
405. PAINTING V, VI, VII. (Omitted 1961-62) (4 or 8 or 12 q. hrs.)
Advanced painting in a series of individual problems courses; opportunity for further intensive development of each student's creative expression and craftsmanship.
Prerequisite: Art 305 for 12 quarter hours and permission of the instructor.
425. ADVANCED CERAMICS V, VI, VII. (Omitted 1961-62)
(4 or 8 or 12 q. hrs.)
Development of previously learned techniques and processes to a level of professional attainment; emphasis upon development in the area in which the student is most interested.
Prerequisite: Art 325 for 12 quarter hours.
446. PHILOSOPHY OF ART EDUCATION. Summer. (4 q. hrs.)
Historical development of philosophies in art education in the United States and abroad; emphasis on present policies and practices in state and national education programs.
Prerequisite: Art 224 or 340.

448. SCULPTURE. Spring. (4 q. hrs.)

Advanced work emphasizing three-dimensional organization of form. Individual projects and choice of materials.

461 (453). PSYCHOLOGY OF ART. Spring. (4 q. hrs.)

Study of the psychological basis for art expression; analysis of art ability in terms of aptitudes, skills, and creative capacities.

462. ART IN AMERICA. Spring. (4 q. hrs.)

Study of architecture, painting, and sculpture from colonial times to the present; emphasis on leading artists and their works as related to the general historical and sociological events in the growth of America.

Prerequisite: Art 160 or 360.

463. CONTEMPORARY ARCHITECTURE. Winter. (4 q. hrs.)

Architecture of the twentieth century; its roots, in the past, its forms, its materials, its masters, and its social impact.

469. SEMINAR IN ART HISTORY AND CRITICISM I, II, III. Fall and Spring. (4 or 8 or 12 q. hrs.)

A seminar consisting of lectures, discussions, reports, and projects centered on topics of special concern to the group; particular emphasis upon criticism, evaluation, and aesthetic ideas as related to society and education.

Prerequisite: Permission of the instructor.

510. MATERIALS FOR DESIGNING I. Summer. (4 q. hrs.)

Experimentation with various materials, limitations, possibilities, adapted to teaching situations. Problems varied to meet individual needs.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

520. ANALYSIS OF PAINTING TECHNIQUES. Winter. (4 q. hrs.)

Study of techniques and media used by painters in the development of the different styles of painting, with opportunity for experience 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. Winter. (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. May be taken as part of Group III requirements for the Master's Degree.

560. MATERIALS FOR DESIGNING II. (Omitted 1961-62) (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. Spring. (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. Fall. (4 q. hrs.)

Statement, analysis and evaluation of current problems in the teaching of art in the public schools.

Open only to graduates.

595. THESIS. (4 q. hrs.)

BIOLOGY (GENERAL)

(Taught in the Department of Zoology)

126, 127, 128. GENERAL BIOLOGICAL SCIENCE.

Fall, Winter and Spring. (4 q. hrs. for each course)

An integrated course covering the fundamental structures and process of plants and animals; genetics, embryology, local flora and fauna are included. *

Does not count as part of a minor in botany or zoology.

129. ELEMENTARY SCIENCE. (Omitted 1961-62). (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 a year's sequence designed to be a general cultural course and basic to further work in botany.

120. GENERAL BOTANY. Every quarter. (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.

121. GENERAL BOTANY. Winter and Spring. (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.

Prerequisite: Botany 120.

122. GENERAL LOCAL FLORA. Spring and Summer. (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.

Prerequisite: Botany 120 and 121, or permission of the instructor.

225. APPLIED PLANT PHYSIOLOGY. Fall. (4 q. hrs.)

A study of plants and their environmental requirements, their contribution to soil formation, and soil classification. The physical and chemical systems of soils as modified by micro-organisms, by cropping practices and erosion. Present practices of soil testing, of maintaining high fertility, and erosion control are a part of the work.

Prerequisite: Botany 120, 121, 122.

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.

Prerequisite: Botany 120 and 121.

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.

Prerequisite: Botany 120 and 121.

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.

Prerequisite: Botany 120 and 121.

234. FOOD AND SANITARY MICROBIOLOGY. Fall and Spring.
(4 q. hrs.)

A course in microbiology, for home economics, health education, and others, 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: Sophomore college standing and 2 quarters of chemistry are recommended. Not to count toward a botany major or minor.

235. BACTERIOLOGY. Every quarter. (4 q. hrs.)

A study of the occurrence, numbers, distribution, isolation, and culture of bacteria and including the microbiology of foods, water, and sewage.

Prerequisite: Botany 120. A year of chemistry is recommended.

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; admission to teacher education.

343. MICROTECHNIQUE. 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.

Prerequisite: Botany 120, 121, 122, and 230 or its equivalent.

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.

Prerequisite: Botany 120 and 121 and one year of chemistry.

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. 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.

Prerequisite: Botany 120, 121, and 122.

349. 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.

Prerequisite: Botany 120, 121, 122.

350. 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.

Prerequisite: One year of botany or zoology.

351. PLANT ECOLOGY. Spring. (4 q. hrs.)

A study of plant communities in the Mid-West and the plant successions leading to the development of both forests and grasslands. Factors affecting these communities are emphasized. Field trips are made to illustrate phases of the work.

Prerequisite: Botany 120, 121, 122 and two advanced courses in Botany or related fields. Botany 344 recommended.

545, 546, 547, 548. 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 and graduates.

550. THE SCIENCE OF PLANT LIFE. (Omitted 1961-62) (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.

Open only to graduates. May be offered toward the Group III requirements for the Master's Degree.

551. SYSTEMATIC BOTANY AND LOCAL FLORA. (Omitted 1961-62)

(4 q. hrs.)

A course designed to enable one to identify the trees, shrubs and herbs in this area and to recognize the most common families of seed plants to which they belong. The lesser plants as ferns, mosses, fungi and liverworts will be noted. A large part of this work will be learning to recognize these plants outdoors and to acquaint the student with their geographical distribution.

Open only to graduates. May be offered as a part of Group III requirements for the Master's Degree. May not be taken by students who have undergraduate credit in botany.

552. MICROBIOLOGY FOR EVERYDAY LIVING. Summer 1962.

(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.

595. THESIS. (4 q. hrs.)

BUSINESS

110. TYPEWRITING. Fall and Winter. (4 q. hrs.)

Beginning instruction in typewriting. The work includes drills for the development of correct stroking and machine manipulation, straight copy typing, short manuscripts, vertical and horizontal placement, simple tabulation and personal communications. Speed requirement: minimum of twenty net words per minute for five minutes with three errors or less.

111. TYPEWRITING, Continued. Every quarter. (4 q. hrs.)

The typewriting of different styles of personal business and business letters, with special attention to arrangement and punctuation. It also includes additional work on manuscripts and tabulation. Speed requirement: minimum of thirty net words per minute for five minutes with three errors or less.

Prerequisite: Business 110 or the equivalent.

112. TYPEWRITING, Continued. Every quarter. (4 q. hrs.)

Skill development continued at a higher level. More advanced work is given in business letters, manuscripts and tabulation. The production of office-type work is introduced. Speed requirement: minimum of forty net words per minute for five minutes with three errors or less.

Prerequisite: Business 111 or the equivalent.

123. SHORTHAND. Fall and Winter. (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 developed concurrently with the training in theory.

Prerequisite: Business 110 or the equivalent.

124. SHORTHAND, Continued. Winter and Spring. (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.

Prerequisite: Business 123 or the equivalent and Business 110 or the equivalent.

125. SHORTHAND, Continued. Fall 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 three minutes to be transcribed with 98 per cent accuracy.

Prerequisite: Business 124 or the equivalent and Business 111 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 written 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. Practice is given in writing these letters.

Prerequisite: English 121 and Business 110.

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. Every quarter. (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 112 or the equivalent.

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 in the production of advanced projects are the objectives. Speed requirement: minimum of sixty net words per minute for five minutes with three errors or less.

Prerequisite: Business 210 or the equivalent.

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 111 or permission of the instructor.

223. ADVANCED SHORTHAND. Fall and Winter. (4 q. hrs.)

The dictation and transcription of business letters. The stu-

dent's control of a comprehensive vocabulary and the ability to take dictation at various levels is developed. Speed requirement: minimum of eighty words per minute to be transcribed at a rate of not less than fifteen words per minute with 98 per cent accuracy.

Prerequisite: Business 125 or the equivalent and Business 112 or the equivalent.

224. ADVANCED SHORTHAND, Continued. Winter and Spring.
(4 q. hrs.)

Expertness in taking dictation and transcribing shorthand rapidly and accurately is the aim of this course. Speed requirement: minimum of 100 words per minute to be transcribed at a rate of not less than twenty words per minute with 98 per cent accuracy.

Prerequisite: Business 223 or the equivalent.

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 to be transcribed at a rate of not less than twenty-five words per minute with 98 per cent accuracy.

Prerequisite: Business 224 or the equivalent and Business 210 or the equivalent.

230. ACCOUNTING. Fall and Winter. (4 q. hrs.)

This course does not presume any previous training in book-keeping. The balance sheet and profit and loss statements are studied first, leading up to the introduction of accounts. The course aims to give thorough drill in the principles of accounting as applied to single proprietorship.

231. ACCOUNTING, Continued. Winter and Spring. (4 q. hrs.)

This course is a continuation of the work of Business Education 230, 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. Special consideration is given to accruals, the voucher system, depreciation, etc.

Prerequisite: Business 230 or the equivalent.

232. ACCOUNTING, Continued. Fall and Spring. (4 q. hrs.)

This course consists chiefly of changing partnership books to corporation books, corporation accounting, accounting for departments and branches, accounting for non-profit organizations and analysis of financial statements with interpretations.

Prerequisite: Business 231.

247. PRINCIPLES OF MARKETING. Every quarter. (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 middleman; 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.

250. ADVERTISING. Every quarter. (4 q. hrs.)

A survey of social and economic aspects of advertising; the advertising cycle; kinds of advertising; selection of media; costs; analysis of copy and displays; format; layout; labels; trademarks; slogans; campaigns; and measurement of results. Preparation of magazine and retail advertising copy.

383. BUSINESS REPORT WRITING. Fall. (4 q. hrs.)

The organization and preparation of reports of the types used in education, business, and government. Techniques of collecting, interpreting, and presenting information useful to executives. Study of actual reports used in different fields.

440. SUPERVISED EXPERIENCES IN SCHOOL BUSINESS MANAGEMENT.

Every quarter. (4 q. hrs.)

School business is studied under the direction of a business manager. It includes: School accounting, financing, and budgeting; purchasing; plant maintenance, operation, and construction; personnel and office management; board, administration, faculty, and public relations; and school law and policy making.

Prerequisite: Consent of the head of the department.

446. BUSINESS LAW. Fall and Winter. (4 q. hrs.)

This course deals with the rules governing law and its administration; personal property, contracts; agency, employer and employee; negotiable instruments; bailments; business crimes and torts.

447. BUSINESS LAW, Continued. Winter and Spring. (4 q. hrs.)

This course is a continuation of Business Law 446 and considers insurance; carriers; sale of goods; partnership; corporation; deeds of conveyance; mortgages; landlord and tenants; surety and guaranty; bankruptcy; trusts and estates.

451. PRINCIPLES OF MANAGEMENT. Fall and Winter. (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.

Open to juniors, seniors, and graduates.

452. PERSONNEL MANAGEMENT. Winter and Spring. (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.

Open to juniors, seniors, and graduates.

453. OFFICE MANAGEMENT. Fall and 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.

Open to juniors, seniors, and graduates.

454. INTERMEDIATE ACCOUNTING. Fall. (4 q. hrs.)

This course consists of a review of the fundamental processes on a higher level with additions not covered in beginning accounting; a thorough presentation of cash and temporary investments, receivables, inventories, investments, plant and equipment, intangibles and deferred charges are made.

Prerequisite: Business 230, 231, 232. Open to juniors, seniors and graduates.

455. INTERMEDIATE ACCOUNTING, Continued. Winter. (4 q. hrs.)

Liabilities both current and long term, capital stock, surplus, statement analysis, statement of application of funds, partnership formation and operation, partnership dissolution and joint ventures are presented.

Prerequisite: Business 230, 231, 232. Open to juniors, seniors, and graduates.

456. ADVANCED ACCOUNTING, Continued. Spring. (4 q. hrs.)

Accounting problems of a specialized nature dealing with installment sales, consignments, agency and branch accounts, corporate combination, consolidated balance sheet and income statements, statements of affairs and receivership accounts.

Prerequisite: Business 230, 231, 232, 454, 455. Open to juniors, seniors, and graduates.

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.

Prerequisite: Business 446 and 447 or the equivalent. Open to juniors, seniors, and graduates.

460. COST ACCOUNTING. Fall and Spring. (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 230, 231, 232. Open to juniors, seniors, and graduates.

461. INCOME TAX ACCOUNTING. Winter and Spring. (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 230, 231, 232 or permission of instructor. Open to juniors, seniors, and graduates.

462. PAYROLL ACCOUNTING. Fall. (4 q. hrs.)

Payroll accounting is presented with emphasis on social security. Various blanks and forms are presented and worked out by each student. Problems and a practice set connected with payroll accounting are studied from the point of view of both the employer and the employee.

Prerequisite: Business 230, 231, 232. Open to juniors, seniors, and graduates.

463. STATEMENT ANALYSIS AND ADVANCED ACCOUNTING PROBLEMS.
Spring. (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 230, 231, 232. Open to juniors, seniors, and graduates.

464. AUDITING. Spring. (4 q. hrs.)

A study of the examination and verification of accounting for the purpose of establishing the reliability of financial statements. Deals with the nature and application of auditing ethics, standards, techniques, procedures, programs, and reports.

Prerequisite: Business 230, 231, 232, 454, 455. Open to juniors, seniors, and graduates.

470 (450B). METHODS OF TEACHING BOOKKEEPING AND BUSINESS ARITHMETIC. Fall and Spring. (4 q. hrs.)

The teaching of bookkeeping in high schools. Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education. Open to juniors, seniors, and graduates.

471 (450I). METHODS OF TEACHING BASIC BUSINESS.

Fall and Spring. (4 q. hrs.)

Study and review of the subject matter of the general, basic social or consumer business courses as they are variously called in high schools. Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, discussions, demonstrations and laboratory work to insure mastery of the subject.

Prerequisite: Admission to teacher education. Open to juniors, seniors, and graduates.

472 (450S). METHODS OF TEACHING GREGG SHORTHAND.

Winter and Spring. (4 q. hrs.)

Study and review of the different methods of teaching the manual with special attention to the teaching of advanced dictation and transcripts. Texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education. Open to juniors, seniors, and graduates.

473 (450T). METHODS OF TEACHING TYPEWRITING AND OFFICE PRACTICE. Fall and Winter. (4 q. hrs.)

The teaching of beginning and advanced typewriting courses. Methods, texts, audio-visual aids, professional organizations and journals are studied. An introduction to teaching experiences. Lectures, demonstrations and laboratory work to insure proficiency in the subject.

Prerequisite: Admission to teacher education. Open to juniors, seniors, and graduates.

480. GENERAL INSURANCE. Fall and Spring. (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.

Open to juniors, seniors, and graduates.

481. BUSINESS STATISTICS. Fall. (4 q. hrs.)

Provides a working knowledge of the statistical tools used in analyzing business problems. Acquaints the student with such fundamental phases of statistical technique as graphic presentations, averages, index numbers, sampling error, and simple correlation.

Open to juniors, seniors, and graduates.

482. CORPORATION FINANCE. Winter. (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 230, 231, 232 and Social Science 254, 255, 256, or the equivalent. Open to juniors, seniors, and graduates.

543. MEASUREMENT AND EVALUATION IN BUSINESS EDUCATION. (Omitted 1961-62). (4 q. hrs.)

Evaluation and development of guidance materials in business education. Testing techniques and the construction of tests, statistical procedures necessary for test interpretation and use.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean.

554. FOUNDATIONS IN BUSINESS EDUCATION. (Omitted 1961-62). (4 q. hrs.)

This course involves a study of the evolution of the business curriculum; reorganization of the business curriculum in terms of large and small high schools; and placement of subjects. Philosophies and objectives of business education are also appraised in terms of business occupational requirements and trends.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean.

595. THESIS. (4 q. hrs.)

Study and investigation in business education for students electing Plan A for the master's degree.

CHEMISTRY

Chemistry 120, 121, and 122 is a year's sequence planned as a general cultural course and to satisfy the general requirement for a year of laboratory science. This sequence also serves as a foundation for further work in chemistry. Students who have the necessary background will find that the Chemistry 150, 151, 152 will serve their needs better.

Note: 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, 340 and 450 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. Chemistry 450 has four two-hour periods weekly with conferences.

120, 121, 122. INTRODUCTORY CHEMISTRY. 120, Fall and Winter;
121, Every quarter; 122, Winter and Spring.
(4 q. hrs. for each course)

A study of the principles of chemistry, the more important non-metals and a few of the metals. Qualitative analysis is introduced in the third term. The relationship of chemistry to many of today's problems is stressed.

To be taken in sequence. Credit is not granted to students who have received credit for Chemistry 150, 151, 152.

150, 151. GENERAL CHEMISTRY. Fall, Winter.
(4 q. hrs. for each course)

The concepts of chemistry are studied with emphasis on atomic structure. An introduction to organic chemistry is given.

Prerequisite: One unit of high school chemistry which included laboratory work and in which the grade was B or A, and two and a half units of mathematics.

To be taken in sequence. Credit not granted to students who have received credit in Chemistry 120, 121, 122.

152. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS.
Spring. (4 q. hrs.)

A continuation of Chemistry 150, 151 but with emphasis on the concept of equilibrium and qualitative analysis.

Prerequisite: Chemistry 151.

Credit is not granted to students who have received credit in Chemistry 120, 121, 122.

153, 154, 155. ELEMENTARY AND ORGANIC CHEMISTRY FOR MAJORS IN HOME ECONOMICS. Fall, Winter, Spring.

(4 q. hrs. for each course)

The principles of chemistry and some of the common elements, including carbon, are studied. Organic chemistry is introduced during the latter part of the second term. The third term's work continues with the organic chemistry necessary for the understanding of carbohydrates, fats, proteins, textiles, dyes and plastics.

Restricted to home economics majors. To be taken in sequence.

233. QUALITATIVE ANALYSIS. (Omitted 1961-62.) (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.

Prerequisite: Chemistry 122 or 152; Mathematics 130 or simultaneous registration therein.

234. QUANTITATIVE ANALYSIS. Fall and Spring. (4 q. hrs.)

Experiments are selected to illustrate the general principles of volumetric and gravimetric analysis, and the calibration 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.

Prerequisite: Chemistry 122 or 152. Mathematics 130, 131 and Physics 130 are strongly recommended.

235. QUANTITATIVE ANALYSIS. Winter. (4 q. hrs.)

This is a continuation of Chemistry 234. Experiments include oxidation-reduction and precipitation titrations, additional gravimetric determinations, an electrodeposition and a brief introduction to instrumental analysis.

Prerequisite: Chemistry 234.

300. PHOTOGRAPHY. Spring. (4 q. hrs.)

The 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.)

Designed for chemistry and physics majors who are preparing for secondary school teaching in the physical science areas. The students visit typical schools and meet cooperating teachers in their

classrooms. Current professional literature, texts, studies of the newer techniques and the history of science and science teaching are required reading. Time is given to the preparation of lesson plans, the presentation of demonstrations, the improvisation of equipment, the making of requisitions and the performing of other typical teaching tasks.

Required in the chemistry curriculum for B.S. in Ed. Prerequisite: Admission to teacher education.

342. PRACTICUM IN CHEMISTRY. Any quarter. (1 q. hr.)

This course is designed to afford the future chemistry teacher some practical experience in laboratory teaching and in servicing the laboratory. Two hours are to be spent assisting in an elementary chemistry laboratory and two hours in the storeroom each week.

Prerequisite: Two years of college chemistry.

Required of Chemistry majors in the junior year of B.S. in Education curriculum.

343, 344, 345. ORGANIC CHEMISTRY. Chemistry 343, Fall; Chemistry 344, Winter; Chemistry 345, Spring.

(4 q. hrs. for each course)

Chemistry 343 and 344 are studies of aliphatic and aromatic compounds with an introduction to the theories of organic chemistry. Chemistry 345 is a continuation but with major emphasis placed upon identification of organic compounds.

Prerequisite: Chemistry 120, 121 or 150, 151; Chemistry 122 or 152 or simultaneous registration therein. To be taken in sequence.

356. BIOCHEMISTRY. (Omitted 1961-62). (4 q. hrs.)

A brief survey of the chemistry of biological materials, of nutrition and of physiological processes.

Prerequisite: Chemistry 343 or 155 or the permission of the instructor. (Chemistry 234 is recommended).

361. MODERN INORGANIC CHEMISTRY. Spring. (4 q. hrs.)

A study of the structures and reactions of inorganic compounds with particular emphasis on chemical bonding. Use is made of library materials for both oral and written reports. Some of the more unusual compounds are synthesized in the laboratory.

Prerequisite: Five terms of college chemistry.

450, 451. ADVANCED CHEMISTRY. Every quarter by arrangement.

(4 q. hrs. for each course)

Laboratory technique, planning experiments and the 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.

Prerequisite: Senior standing in chemistry and consent of the head of the department. Open to juniors, seniors, and graduates.

470. INSTRUMENTAL METHODS IN CHEMISTRY. (Omitted 1961-62). (4 q. hrs.)

A course designed to give the student an understanding of the principles involved in using various instruments and the techniques required for making chemical measurements. Study includes such subjects as colorimetry, chromatography, spectrophotometry, polarography, polarimetry, radiochemistry.

Prerequisite: Chemistry 235 and 344. Open to juniors, seniors, and graduates.

480. ORGANIC PREPARATIONS. (Omitted 1961-62). (4 q. hrs.)

A study of type reactions in organic chemistry and the development of laboratory techniques through the preparation of selected compounds.

Prerequisite: Chemistry 234, 344. Open to juniors, seniors, and graduates.

491, 492, 493. PHYSICAL CHEMISTRY. Fall, Winter, Spring. (4 q. hrs. for each course)

A study of the principles governing chemical change. Included are: thermodynamics; equilibria; kinetic theory; the gaseous, liquid and solid states; solutions; atomic and molecular structure; electrochemistry, quantum theory and chemical kinetics.

Prerequisite: Chemistry 234. Mathematics 235, 236 or simultaneous registration therein. Open to juniors, seniors, and graduate students. To be taken in sequence.

494. NUCLEAR CHEMISTRY. Fall. (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Chemistry 235 and/or 361 or permission of the department head.

500. SEMINAR. (Omitted 1961-62). (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 235 and 344, and permission of the head of the department.

501. HISTORY OF CHEMISTRY. (Omitted 1961-62). (2 q. hrs.)

Sources of chemical information including journals, abstracts, texts and reference books in the study of the historical developments of the science of chemistry.

Prerequisite: Permission of the head of the department.

595. THESIS. (4 q. hrs.)

ECONOMICS

(See Social Science 254, 255, 256, 453, 454, 456,
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 education curriculum.
220. WORKSHOP. (Omitted 1961-62). (4 q. hrs.)
Opportunity to work on individual problems with guidance of staff members.
Registration by permission only.
230. AMERICAN PUBLIC EDUCATION. Every quarter. (4 q. hrs.)
Cultural influences which affect education; historical development of American education; characteristics of today's schools; administration and finance; teaching as a profession.
232. HUMAN GROWTH, DEVELOPMENT, AND LEARNING.
Every quarter. (4 q. hrs.)
Physical, social, emotional, and intellectual growth and development of children and adolescents. Major emphasis on developmental and learning problems and their implications and significance in relation to classroom procedures.
Prerequisite: Psychology 231.
- 240, 241. SUPERVISED STUDENT TEACHING IN THE ELEMENTARY SCHOOL. Every quarter. (4 q. hrs. for each course)
Limited to students with sophomore standing who plan to teach on a provisional certificate. Permission of the Director of Teacher Education and admission to teacher education are prerequisites.
324. DIRECTING LEARNING IN THE ELEMENTARY SCHOOL.
Every quarter. (4 q. hrs.)
Selection and the effective organization and presentation of learning experiences. Emphasis on practical application of principles of learning, instructional programs, democratic procedures in class organization, management and control, and the use of audio-visual

materials. Consideration of the non-instructional duties of the teacher in school and community.

Prerequisite to student teaching. Prerequisite: Education 230, 232, and Psychology 231; admission to teacher education.

325. CHILD AND CURRICULUM. Fall and Spring. (4 q. hrs.)

Develops a readiness for teaching, and builds an understanding of a curriculum as it might be experienced by a child in the elementary school. Opportunities for observation at all levels in the Laboratory School.

Prerequisite: Twelve quarter hours in education and psychology; admission to teacher education.

328. DEVELOPMENTAL READING IN THE ELEMENTARY SCHOOL.

Every quarter. (4 q. hrs.)

Basal reading program from kindergarten through junior high school using the human growth and development approach; nature, purpose, and current trends in reading instruction; guiding principles, types of reading materials, techniques; evaluating progress. Demonstrations for class observation and discussion.

Prerequisite: Psychology 231 and Education 232; admission to teacher education.

334. KINDERGARTEN EDUCATION. Spring and Summer 1962.

(4 q. hrs.)

Aims, organization, equipment and curriculum for pre-school education; recent trends and techniques for the education of young children in nursery school and kindergarten. Observation and first hand experience with young children are required. Prerequisite to student teaching in kindergarten.

Prerequisite: Education 232 and 324.

344. MEASUREMENTS AND EVALUATION. Every quarter. (4 q. hrs.)

Three units: I. Standardized testing (attitude, aptitude, intelligence, personality and achievement); II. Statistical methods applied to testing; III. Construction, administration and technical analysis of evaluative devices for classroom use.

Prerequisite: Education 230, 232, and Psychology 231; admission to teacher education.

345. DIRECTING LEARNING IN THE SECONDARY SCHOOL.

Every quarter. (4 q. hrs.)

Classroom organization and management; emotional climate of the classroom; counseling and guidance services; secondary school curriculum including unit teaching; public relations; use of audio-visual materials; principles of action research; professional behavior and in-service growth of the secondary teacher.

Prerequisite: Education 230, 232, Psychology 231; admission to teacher education.

440. PRINCIPLES OF EDUCATION. Every quarter. (4 q. hrs.)
Comparative survey of the philosophical origins of educational principles and practices.

Prerequisite: Education 230, 232, and Psychology 231; admission to teacher education. Not open to students who have credit in Education 343.

441, 442, 443, 444. SUPERVISED STUDENT TEACHING IN THE ELEMENTARY OR SECONDARY SCHOOL. Every quarter.

(4 q. hrs. for each course)

Three courses, 12 quarter hours, of student teaching are required for the Bachelor of Science in Education degree. Students majoring in the secondary school curricula, must take at least 4 quarter hours, preferably 8 quarter hours, of student teaching in their major field.

Prerequisite: See Admission to Student Teaching.

443L. PROFESSIONAL LABORATORY EXPERIENCES. Summer 1962.

(4 q. hrs.)

Laboratory experiences adapted to the needs of experienced teachers. Opportunity is provided for study of teaching through observations, discussions, and readings. Under certain conditions, this course may be substituted for Education 443.

Prerequisite: Education 441 and 442, permission of instructor and Dean.

446. MODERN TRENDS IN EDUCATION. Spring. (4 q. hrs.)

Study of changes, trends, and problems in modern education with emphasis on underlying theories. Each student chooses for intensive study a problem of particular interest to him.

Prerequisite: Sixteen quarter hours in education and psychology; admission to teacher education.

452. SCHOOL LAW. Winter and Summer, 1962. (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. Open to juniors, seniors, and graduates.

458. VOCATIONAL EDUCATION. Spring. (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. Open to juniors, seniors, and graduates.

459. EDUCATIONAL PSYCHOLOGY. (Omitted 1961-62). (4 q. hrs.)

Theories of learning; transfer and functional learning; creative

thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

460. PROBLEMS IN SECONDARY EDUCATION. (Omitted 1961-62).

(4 q. hrs.)

An advanced course concerned with specific problems in the areas of: evolution of secondary education, student activities, curriculum, guidance, evaluation, and most recent educational practices. Each student is assigned an individual problem.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

465. SPECIAL EDUCATIONAL PROBLEMS. (On demand). (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. Open to juniors, seniors, and graduates.

469. PROBLEMS IN THE TEACHING OF READING. Winter; and Summer 1962. (4 q. hrs.)

Gives 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. Practical experience with children is provided whenever possible.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

470. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Spring. (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. Open to juniors, seniors, and graduates.

471. TEACHING OF SOCIAL LIVING IN THE ELEMENTARY SCHOOL. Summer 1962. (4 q. hrs.)

A course in methods and materials related to teaching social living. Designed to aid teachers, supervisors, and administrators in understanding the role of history, civics, geography, and the natural sciences as interacting factors in solving any social problem.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

477. THE JUNIOR HIGH SCHOOL. Fall and Summer 1962. (4 q. hrs.)

A course concerned with certain aspects of junior high school

education—historical development, basic philosophy, practices.

Prerequisite: Sixteen quarter hours in education and psychology, including Education 232 and Education 324 (or Education 345). Open to juniors, seniors, and graduates.

480. SCHOOL ORGANIZATION AND ADMINISTRATION. Fall and Summer 1962. (4 q. hrs.)

Educational administration in social and historical perspective; authentication of principles of administration; application of principles; legal structure of education as a state function.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

481. WORK OF THE PRINCIPAL IN THE MODERN SCHOOL. Spring. (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, and Education 480. Open to juniors, seniors, and graduates.

487. INTRODUCTION TO AUDIO-VISUAL EDUCATION.

Fall, Spring and Summer 1962. (4 q. hrs.)

Theory and principles for use of audio-visual materials in teaching. Experiences are provided in the operation, selection, and utilization of audio-visual aids.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

488. PREPARATION AND USE OF INSTRUCTIONAL MATERIALS.

Fall. (4 q. hrs.)

Production of locally prepared audio-visual materials using the techniques of mounting, lettering, and reproducing by pictorial or graphic means. Emphasis is upon improving communication in the learning process.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

489. SPECIAL PROBLEMS IN AUDIO-VISUAL EDUCATION.

Summer 1962. (4 q. hrs.)

Opportunities for administrators, audio-visual directors, and building audio-visual coordinators to work on problems of production, administration, and utilization of audio-visual materials in schools.

Prerequisite: Education 487 or equivalent. Open to juniors, seniors, and graduates.

490. PRINCIPLES AND TECHNIQUES OF GUIDANCE.

Fall and Summer 1962. (4 q. hrs.)

A basic introductory course for those interested in guidance.

The course deals with the principles and purposes underlying guidance activities and studies the means by which guidance activities may be carried on in the school system. The role of the classroom teacher in a guidance program is emphasized.

Prerequisite: Sixteen quarter hours in education and psychology. Open to juniors, seniors, and graduates.

544. EDUCATIONAL STATISTICS. Summer 1962. (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. Primarily for graduates; open to seniors with permission of instructor and Dean.

550. PRINCIPLES OF CURRICULUM DEVELOPMENT. Fall; Spring; and Summer 1962. (4 q. hrs.)

Philosophic concepts underlying curriculum; types of curriculum in current use.

Open only to graduates. Credit applicable to Group I of the requirements for the Master's Degree.

551. SOCIAL FOUNDATIONS OF EDUCATION. Fall and Winter. (4 q. hrs.)

A sociological analysis of education as it is affected by communities and institutions, social stratifications, and the professionalizing of teaching.

Open only to graduates. Credit applicable to Group I of the requirements for the Master's Degree.

552. UNDERSTANDING THE INDIVIDUAL. Winter; Spring; and Summer 1962. (4 q. hrs.)

Personality development and concepts of the self; need satisfaction and perception of threat; problems of adjustment and determinants of personality.

Open only to graduates. Credit applicable to Group I of the requirements for the Master's Degree.

553. PHILOSOPHY OF EDUCATION. Winter; Spring; and Summer 1962. (4 q. hrs.)

Some of the guiding principles of contemporary educational ideology in ethics, politics, religion, and art; major problems of ethics, teaching, and the national policy in education.

Open only to graduates. Credit applicable to Group I of the requirements for the Master's Degree.

554. HISTORY OF EDUCATIONAL THOUGHT. Fall. (4 q. hrs.)

Educational ideas and events of the past are related to the social and political frameworks of their days and to the contem-

porary scene. By emphasizing the continuity of thought in the progress of civilization the course provides an historical perspective for evaluating present controversies and trends.

Open only to graduates. Credit applicable to Group I of the requirements for the Master's Degree.

560. INTRODUCTION TO GRADUATE STUDY. Winter. (4 q. hrs.)

A course to acquaint students with the nature and responsibilities of advanced professional study. Students are given experiences in locating and defining problems, in using elementary research techniques, in writing conclusions and recommendations in acceptable form, and in interpreting and evaluating research.

Open only to graduates.

575. DEVELOPMENT OF CORE CURRICULUM. Fall. (4 q. hrs.)

Consideration of the core curriculum as a form of organization in the school. Organization of units in the elementary school; common learnings approach to teaching in the secondary school.

Open only to graduates.

580. PROBLEMS IN SCHOOL ADMINISTRATION. Winter and Summer 1962. (4 q. hrs.)

This course is designed to present an overview of recent developments in school administration. The student will be expected to investigate and report on a real school problem, related to past or anticipated experiences.

Prerequisite: Education 480 or equivalent. Open only to graduates.

581. SCHOOL SUPERVISION—A GROUP PROCESS. Spring. (4 q. hrs.)

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. Emphasis is placed on the practical application of principles of leadership and supervision.

Prerequisite: Education 480 or equivalent. Open only to graduates.

586. SCHOOL FINANCE. Spring and Summer 1962. (4 q. hrs.)

A study of the legal basis for the support of public schools, school revenues, and the expenditure of school funds, and an introduction to the concepts which underlie the accounting required for such funds. No attempt is made to develop a detailed understanding of school accounting practices.

Open only to graduates.

590. CURRENT PRACTICES AND PROBLEMS IN COUNSELING. Spring. (4 q. hrs.)

An advanced course in theory and practices of counseling;

need of counseling services; place of the counselor in the school program; in-service training of counselors; gathering, recording and interpreting information; tests and the counseling situation; and educational and vocational planning.

Prerequisite: Education 490. Open only to graduates.

591. ORGANIZATION AND ADMINISTRATION OF GUIDANCE AND PERSONNEL SERVICES. Fall. (4 q. hrs.)

Principles and current trends in organization and administration of school guidance programs; types of organizations, program planning, the guidance committee, counselor-teacher relationships, public relations, integration of guidance services and curriculum, and in-service leadership in guidance.

Open only to graduates.

592. OCCUPATIONAL, EDUCATIONAL, PERSONAL, AND SOCIAL INFORMATION. Winter. (4 q. hrs.)

A course concerned with collecting, evaluating, and using occupational, educational, personal, and social information. Employment conditions and trends, job requirements, training facilities, and the like are studied.

Open only to graduates.

595. THESIS. (4 q. hrs.)

596. THE JUNIOR COLLEGE MOVEMENT. Spring and Summer 1962. (4 q. hrs.)

History of the junior college movement in the United States, from the Folk School through the emergence of the community college; special attention to problems and issues affecting junior colleges in Illinois. Research completed and studies in progress are utilized in examining transfer success of junior college students, preparation required for junior college instructors, and extent to which the junior college is achieving its stated objectives.

Open only to graduates.

(2) Psychology

A minor in psychology for the degree, B.S. in Ed. 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.)

Research theories and methods; principles of motivation, emotion and perception; survey of normal and abnormal adjustment; nature of intelligence testing.

351. APPLIED PSYCHOLOGY. Summer 1962. (4 q. hrs.)

Scope of field; principles applied in testimony and crime de-

tection; employment practices, industrial efficiency and accident prevention; advertising and retail business.

Prerequisite: Psychology 231 and Education 232.

360. PSYCHOLOGICAL MEASUREMENTS: FUNDAMENTAL PRINCIPLES.

Summer 1962. (4 q. hrs.)

Statistical background of test construction and interpretation; description, administration, interpretation and evaluation of interest, aptitude, attitude, and personality tests.

Prerequisite: Psychology 231, Education 232. Open to juniors, seniors, and graduates.

447. SOCIAL PSYCHOLOGY. Fall, Winter, and Summer 1962.

(4 q. hrs.)

Scope and methods; biological and social foundations of behavior; individual factors in adjustment; sex, dominance, and prestige; institutional behavior and conflict situations.

Prerequisite: Psychology 231, Education 232.

450. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. Winter and

Summer 1962. (4 q. hrs.)

Deals with psychological diagnosis of, and therapeutic programs for, children who are maladjusted as a result of exceptional conditions. Completed research and progress are utilized to gain a broader base of understanding the psychology of children who deviate from the normal.

Prerequisite: Psychology 231 and Education 232. Open to juniors, seniors, and graduates.

451. ABNORMAL PSYCHOLOGY. Fall and Summer 1962. (4 q. hrs.)

Nature and dynamics; organic and functional etiological factors; symptomatic diagnosis, etiology, treatment and prevention of specific neurosis and psychoses.

Prerequisite: Psychology 231 and Education 232. Open to juniors, seniors, and graduates.

452. PSYCHOLOGICAL MEASUREMENTS: PERFORMANCE AND INTELLIGENCE TESTING. Spring and Summer 1962. (4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231, Education 232, Education 344, or Psychology 360. Open to juniors, seniors, and graduates.

455. MENTAL HYGIENE. Winter; and Summer 1962. (4 q. hrs.)

Stresses the normal individual problem of maintaining mental health. Attention is given to 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 application of its principles to home, school, and social situations.

Prerequisite: Psychology 231, Education 232. Open to juniors, seniors, and graduates.

ENGLISH

Notes. Any student entering the University 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 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 1961-62 will be held on Thursday, January 8, 1962, from 7:00 to 10:00 p.m.

120. COMPOSITION. Every quarter. (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. Every quarter. (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.

Prerequisite: English 120.

122. LITERATURE IN THE GRADES. Winter and Spring. (4 q. hrs.)

Emphasizes chiefly wide acquaintance with the great bodies of world literature—myth, legend, etc.—and with the best poetry suitable for children.

Required in the elementary curriculum for lower grades. Not accepted for elective credit in other curricula.

123. STORY-TELLING. (Omitted 1961-62). (4 q. hrs.)

Theory and practice in telling stories to children of different ages.

125. COMPOSITION AND LITERATURE. Every quarter. (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.

Prerequisite: English 120 and 121.

126. GRAMMAR. Winter and 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.

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 and 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 Spring.

(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.

231. NINETEENTH CENTURY PROSE FICTION, Continued.

Winter. (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.

234. AMERICAN LITERATURE. Fall and Spring. (4 q. hrs.)

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.

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.

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.

325. 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.

326. SHAKESPEARE'S EARLIER PLAYS. Winter. (4 q. hrs.)

A study of Shakespeare from his earliest plays to 1600, including Richard III, Richard II, Romeo and Juliet, *Midsummer-Night's Dream*, Merchant of Venice, *Much Ado About Nothing*, Henry IV, *As You Like It*, and Julius Caesar.

327. SHAKESPEARE'S LATER PLAYS. Spring. (4 q. hrs.)

A study of Shakespeare from 1600 to his last plays, including *Twelfth Night*, Hamlet, Troilus and Cressida, Othello, Measure for Measure, King Lear, Macbeth, Antony and Cleopatra, Coriolanus, and *The Tempest*.

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.

Prerequisite: Admission to teacher education.

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.

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.

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.

350. CREATIVE WRITING. Winter. (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.

361. WORLD LITERATURE: ANCIENT AND MEDIEVAL. Fall.

(4 q. hrs.)

Reading in translation of representative masterpieces of the ancient world and of the middle ages.

English 361 is not a prerequisite for English 362 or 363, but it is recommended that the courses be taken in sequence.

362. WORLD LITERATURE: RENAISSANCE TO 1850. Winter

(4 q. hrs.)

Emphasis on generally recognized masters, Rabelais, Montaigne, Shakespeare, Goethe, Moliere, Racine, Cervantes, and others.

363. WORLD LITERATURE: SINCE 1850. Spring. (4 q. hrs.)

Readings in the masterpieces of realism, naturalism, symbolism: Balzac, Flaubert, Dostoevsky, Tolstoy, Ibsen, Mann, Proust, Faulkner, and others.

450. HISTORY OF THE ENGLISH LANGUAGE. Winter. (4 q. hrs.)

The development of the English language from Anglo-Saxon to the language of today.

Prerequisite: English 126 or its equivalent. Not open as elec-

tive in other curricula except by special permission of the head of the English department. Open to juniors, seniors, and graduates.

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.

Open to juniors, seniors, and graduates.

453. SIXTEENTH AND SEVENTEENTH CENTURY PROSE. Fall.

(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 graduates.

454. 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.

Open to juniors, seniors, and graduates.

455. EIGHTEENTH CENTURY PROSE WRITERS. (Omitted 1961-62).

(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 graduates.

456. EIGHTEENTH CENTURY PROSE WRITERS. Summer 1962.

(4 q. hrs.)

A study concerned with prose writers Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

Open to juniors, seniors, and graduates.

457. ELIZABETHAN DRAMA. (Omitted 1961-62). (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.

Open to juniors, seniors, and graduates.

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.

Open to juniors, seniors, and graduates.

459. METHODS OF TEACHING CHILDREN'S LITERATURE.

(Omitted 1961-62). (4 q. hrs.)

A course for students of advanced standing, graduates or seniors, elementary and English majors, designed to increase their knowledge concerning children's literature and to suggest methods for teaching literature in grades one through six. The course will include a review of literature for older children as well as a study of modern books and stories.

Open to juniors, seniors, and graduates.

460J. SUPERVISION OF HIGH SCHOOL PUBLICATIONS.

(Omitted 1961-62). (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. Open to juniors, seniors, and graduates.

500. LITERARY CRITICISM. (Omitted 1961-62). (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. (Omitted 1961-62). (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 with permission of the instructor and the Dean.

512. TENNYSON AND BROWNING. Summer 1962. (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 as 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 the Dean.

550. COMPARATIVE LITERATURE. Spring. (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 Neitzsche represent Germany.

Open only to graduates. May be offered toward the Group III requirements for the Master's Degree.

551. BIOGRAPHY. Summer 1962. (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. May be offered toward the Group III requirements for the Master's Degree.

595. THESIS. (4 q. hrs.)

FOREIGN LANGUAGES

Latin

210. READINGS IN ROMAN HISTORY AND MYTHOLOGY.

(Omitted 1961-62). (4 q. hrs.)

Selections from Caesar, Eutropius, and Sallust.

Prerequisite: Latin 122 or two years of Latin in high school.

211. SELECTED LETTERS. (Omitted 1961-62). (4 q. hrs.)

Readings from the correspondence of Cicero and Pliny.

Prerequisite: Latin 210.

212. ROMAN BIOGRAPHY. (Omitted 1961-62). (4 q. hrs.)

Readings from Cornelius Nepos.

Prerequisite: Latin 211.

220. INTRODUCTORY LATIN READING. Fall. (4 q. hrs.)
Review of Latin grammar; exercises; practice in sight translation.
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.
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.
330. CICERO'S ESSAYS, SELECTIONS FROM DE AMICITIA AND DE SENECTUTE. Fall. (4 q. hrs.)
331. HORACE, SELECTIONS FROM THE ODES, SATIRES, AND EPISTLES. Winter. (4 q. hrs.)
332. LIVY, SELECTIONS FROM BOOKS I, XXI, XXII. Spring. Spring. (4 q. hrs.)
340. METHODS OF TEACHING LATIN. Spring. (4 q. hrs.)
Prerequisite: Admission to teacher education.
343. OVID, SELECTIONS FROM TRISTA, HEROIDES, AMORES, FASTI, METAMORPHOSES. (Omitted 1961-62). (4 q. hrs.)
The life and times of Ovid; Roman and Greek mythology.
344. LATIN COMPOSITION. (Omitted 1961-62). (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.
345. MEDIEVAL LATIN. (Omitted 1961-62). (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.

French

- 130, 131, 132. ELEMENTARY FRENCH. Fall, Winter and 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 and 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. 17TH CENTURY DRAMA. Fall. (4 q. hrs.)
Selected works: Moliere, Racine, Corneille.
334. 18TH CENTURY DRAMA. Winter. (4 q. hrs.)
Selected works: Lesage, Voltaire, Beaumarchais, Marivaux.
335. 19TH CENTURY DRAMA. Spring. (4 q. hrs.)
Selected works: Hugo, Musset, Dumas fils, Rostand, Maeterlinck, Claudel.
340. METHODS OF TEACHING FRENCH. Spring. (4 q. hrs.)
Prerequisite: Admission to teacher education.
450. SURVEY OF FRENCH LITERATURE FROM THE MIDDLE AGES TO THE 18TH CENTURY. Fall. (4 q. hrs.)
Readings: Chanson de Roland, Villon, Marot, Rabelais, Ronsard, Descartes, Pascal, La Rochefoucauld, Mme de Sevigne, La Fontaine, La Bruyere, Boileau.
451. SURVEY OF FRENCH LITERATURE OF THE 18TH CENTURY. Winter. (4 q. hrs.)
Readings: Lesage, Montesquieu, Voltaire, Diderot and the Encyclopedistes, Bernardin de Saint-Pierre, Chenier.
452. SURVEY OF FRENCH LITERATURE OF THE 19TH CENTURY. Spring. (4 q. hrs.)
Readings: Chateaubriand, Mme de Stael, Lamartine, Hugo, Vigny, Musset, Gautier, Balzac, Sainte-Beuve, Flaubert, Taine, Renan, Leconte de Lisle, Baudelaire, Daudet, Maupassant, Zola.
453. FRENCH NOVEL I: BEFORE BALZAC. (Omitted 1961-62). (4 q. hrs.)
A study of selected novels of Mme de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.
454. FRENCH NOVEL II: BALZAC TO PROUST. (Omitted 1961-62). (4 q. hrs.)
A study of selected novels of Balzac, Stendhal, Flaubert and Zola.
455. FRENCH NOVEL III: PROUST TO THE PRESENT. (Omitted 1961-62). (4 q. hrs.)
A study of selected novels of Proust, Alain Fournier, Gide, Mauriac and Camus.

German

- 120, 121, 122. SCIENTIFIC GERMAN. Fall, Winter and 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. ELEMENTARY GERMAN. Fall, Winter and 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. Fall, Winter and Spring.
(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.

340. METHODS OF TEACHING GERMAN. Spring. (4 q. hrs.)

Prerequisite: Admission to teacher education.

353. MASTERPIECES OF GERMAN LITERATURE. Fall. (4 q. hrs.)

Introduction to German literature, its themes, forms, and ideals.

354. CONVERSATION AND WRITING. Winter. (4 q. hrs.)

Training in writing German, translating from English, diction and pronunciation.

355. TWENTIETH CENTURY GERMAN LITERATURE. Spring.
(4 q. hrs.)

Introduction to trends of modern civilization as reflected in contemporary German literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

453. GERMAN LITERATURE TO 1700. (Omitted 1961-62). (4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

454. GERMAN LITERATURE SINCE 1700. (Omitted 1961-62).
(4 q. hrs.)

Students will read selected works in their entirety and portions or condensations of other major works from anthologies. Lectures and discussions in German will amplify and clarify the various periods.

455. ADVANCED CONVERSATION, COMPOSITION AND SYNTAX.
(Omitted 1961-62). (4 q. hrs.)

Advanced training in writing and speaking German for improvement in grammar, syntax and style; essays and discussions will be drawn from various aspects of the literature studied in courses 453 and 454.

456. HISTORY OF GERMAN CIVILIZATION. (Omitted 1961-62).
(4 q. hrs.)

Analysis of selected topics from German culture and civilization.

457. MODERN GERMAN DRAMA. (Omitted 1961-62). (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

458. GOETHE. (Omitted 1961-62). (4 q. hrs.)

Introduction to Goethe's life and works.

Russian

- 140, 141, 142. ELEMENTARY RUSSIAN. Fall, Winter and Spring.
(4 q. hrs. for each course.)

Pronunciation; basic grammar; written and oral exercises; reading of simple Russian prose.

No credit for graduation for less than a year's work.

- 250, 251, 252. SECOND YEAR RUSSIAN. Fall, Winter and Spring.
(4 q. hrs. for each course.)

Study of grammar continued; written and oral exercises; reading of moderately difficult Russian prose.

Prerequisite: Russian 140, 141, 142.

Spanish

- 130, 131, 132. ELEMENTARY SPANISH. Fall, Winter and 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 and 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.

Prerequisite: Two years of Spanish in high school or one year in college.

310. MODERN SHORT STORIES OF SPAIN. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

311. SELECTED MODERN DRAMAS OF SPAIN. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

312. SELECTED MODERN NOVELS OF SPAIN. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

336. SPANISH AMERICAN SHORT STORY. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

337. READINGS IN SPANISH AMERICAN POETS. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

338. SELECTED SPANISH AMERICAN NOVELS. (Omitted 1961-62).
(4 q. hrs.)

Prerequisite: Second year Spanish.

339. SELECTED SPANISH NOVELS. (Omitted 1961-62). (4 q. hrs.)

340. METHODS IN THE TEACHING OF SPANISH. Spring. (4 q. hrs.)
Prerequisite: Admission to teacher education.

341. INTRODUCTION TO SPANISH CIVILIZATION.
(Omitted 1961-62). (4 q. hrs.)

342. INTRODUCTION TO SPANISH-AMERICAN CIVILIZATION.
(Omitted 1961-62). (4 q. hrs.)

453, 454, 455. SURVEY OF THE LITERATURE OF SPAIN.
Fall, Winter, Spring. (4 q. hrs. for each course)

*Classics*550. GREEK LITERATURE IN ENGLISH TRANSLATION. Summer 1962.
(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, 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 1963. (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.

FRENCH

(See Foreign Languages)

GEOGRAPHY

Geography 140, 141, 142 are planned as a general cultural sequence and as an introduction to further study in the earth sciences. They meet the core curriculum requirement of a year of laboratory science in B. S. and B. A. curricula (old plan).

Geography 150, 151, 152 are planned as a year's sequence in beginning geography. Generally they should be considered as prerequisite for more advanced courses in geography.

Geography 300, 301, and 302 are required of students in the elementary curriculum, but are open to all students on an elective basis. These courses substitute for Geography 236, 221, and 120 in that order, to meet the former requirements in the elementary curriculum.

140. PHYSICAL GEOLOGY. Every quarter. (4 q. hrs.)

The geologic approach to a study of earth materials, and processes concerned with their formation, and the changing face of the earth; attention given to common rocks and minerals, vulcanism, erosional processes, tectonic forces, and map interpretation. Field trip.

141. PHYSICAL GEOGRAPHY. Fall, Winter. (4 q. hrs.)

Study of weather, the factors which influence it, and its importance to man; most recent developments in weather presented.

142. PHYSICAL GEOGRAPHY. Spring. (4 q. hrs.)

A study of the earth's physical surface, the areal inter-relationships of its landforms, water resources, soils, natural vegetation, and economic minerals; world patterns of distribution of physical elements of geography and their importance and relationships to man emphasized. One major field trip.

No prerequisite. Geography 140, 141, and 142 need not be taken in sequence.

150. WORLD GEOGRAPHY. Every quarter. (4 q. hrs.)

A survey of world geography in which significant differences in population character, distribution and numbers form the core of the course. Man is studied in his areal setting and the working bonds he has developed with the land and its resources. The regional approach is utilized in studying the earth as the home of man.

151. REGIONAL GEOGRAPHY. Winter. (4 q. hrs.)

An introduction to the regional approach in geography with North America and especially the United States, the example.

Prerequisite: Geography 150 or 141 or 142.

152. REGIONAL GEOGRAPHY. Spring. (4 q. hrs.)

A study of the world's great political regions. Foundations of national power explored.

Geography 150, 152 need not be taken in sequence.

241. CLIMATES OF THE WORLD. Fall. (4 q. hrs.)

A comparison is made of methods used in classifying world climatic types. Consideration is given to genetically derived climatic types of the world and to vegetation, soil, and land-use associations. Attention given to the applications of climatology in industry, agriculture, and aviation.

Prerequisite: Geography 141 or permission of instructor.

242. REGIONAL GEOMORPHOLOGY. (Omitted 1961-62). (4 q. hrs.)

A study of the landforms of the United States. Considerable work with maps of landforms with consideration of their composition and the processes by which they were formed.

Prerequisite: Geography 142 or permission of instructor.

243. HISTORICAL GEOLOGY. (Omitted 1961-62). (4 q. hrs.)

A study of the physical history of the earth's crust and the record in rocks and the evolution of life forms as evidenced by fossil records.

Prerequisite: Geography 140.

300. ELEMENTARY GEOGRAPHY I. Fall. (4 q. hrs.)

Introduces the student to the physical elements of geography as an earth science; phenomena of earth shape and motions, distribution of daylight, time, and seasons are analyzed as they affect the earth as man's home. Common Illinois rocks and minerals, land forms, and earth features related to erosion and deposition are introduced. Local field trips are presented to acquaint the students with the field trip as a method of learning the physical and cultural geography of an area.

Open on an elective basis to all students.

301. ELEMENTARY GEOGRAPHY II. Winter. (4 q. hrs.)

Regional geography of the world is analyzed as based on physical factors. Emphasis is placed on man and the working bonds he has developed with various environments, chiefly climatic.

Open on an elective basis to all students.

302. ELEMENTARY GEOGRAPHY III. Spring. (4 q. hrs.)

Man's occupancy of the continent of North America with special emphasis on the United States. The regional approach is used with some time spent on the wise utilization of resources.

Open on an elective basis to all students.

340. METHODS AND MATERIALS IN GEOGRAPHY. Fall. (4 q. hrs.)

The characteristics and nature of geography and its place among the disciplines and in the school curriculum. Texts, reference materials, visual and other aids, and classroom procedures are considered. Some actual classroom experience given in teaching techniques.

Prerequisite: Admission to teacher education.

360. ECONOMIC GEOGRAPHY. Fall, Winter. (4 q. hrs.)

An examination of world industries and areal significance of economic activities. The geographic significance for each economic activity is considered as well as an evaluation of the varying importance of each in the world scene.

361. ADVANCED ECONOMIC GEOGRAPHY I. (Omitted 1961-62).

(4 q. hrs.)

Geography of transportation and domestic and foreign trade; special emphasis is on the physical pattern of transportation routes and the various functions of urban settlement and the importance of these to our economy.

362. ADVANCED ECONOMIC GEOGRAPHY II. Spring. (4 q. hrs.)

The essential agricultural and mineral resources of the world and their associated industries are studied. Special emphasis on the geographic aspects of recent economic developments which have national and international significance.

370. GEOGRAPHY OF ILLINOIS. Winter. (2 q. hrs.)

A study of the physical and cultural features of Illinois, including climate, landforms, soil, water and mineral resources. Population distribution and economic activities are analyzed in their regional settings. The present geography of the state is interpreted in the light of its historical setting.

380. CARTOGRAPHY. Winter. (4 q. hrs.)

Instruction and practice in the fundamentals of map projection, map construction, and reproduction.

381. FIELD TECHNIQUES AND PROBLEMS. (Omitted 1961-62).

(4 q. hrs.)

Actual experience in defining problems and solving them through collecting, classifying, and analyzing data in the field. Plane tabling, making of simple field maps, use of aerial photographs and competence in field techniques stressed.

387. CONSERVATION OF NATURAL RESOURCES. Spring. (4 q. hrs.)

Study of problems dealing with the wise use of soil, minerals, forests, animals, and waters with special reference to Illinois and the United States. Some field trips used as laboratory sessions.

446. URBAN GEOGRAPHY. (Omitted 1961-62). (4 q. hrs.)

A study of the urban population of the world. Analysis is made of the origins, development, distribution, character, structure, and functions of urban centers.

450. NORTH AMERICA. (Omitted 1961-62). (4 q. hrs.)

An advanced detailed study which emphasizes the United States' landforms, resources, cities, rivers, transportation routes and economic areas which are covered with some thoroughness in their regional settings.

Open to juniors, seniors, and graduates.

451. GEOGRAPHY OF SOUTH AMERICA. Winter. (4 q. hrs.)

This course deals with all of Latin America south of the Rio Grande. The geographic basis for stages of development and for economic relations of Latin America with the rest of the world treated, but especially the United States. It provides knowledge for better understanding of our neighbors south of the border.

Open to juniors, seniors, and graduates.

452. 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 and political relations; emphasis upon current problems.

Open to juniors, seniors, and graduates.

453. GEOGRAPHY OF ASIA. Spring. (4 q. hrs.)

A study of the continent with the main emphasis on China, Japan, India, and the East Indies.

Open to juniors, seniors, and graduates.

454. GEOGRAPHY OF AFRICA AND AUSTRALIA. (Omitted 1961-62). (4 q. hrs.)

A regional study of Africa and Australia. Political and economic regions are considered. The physical environment and the economic development of these two continents are compared.

Open to juniors, seniors, and graduates.

455. GEOGRAPHY OF THE U. S. S. R. (Omitted 1961-62).

(4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment with which the Russian people live and work. Analysis of the present economic development and of the industrial potential of the Soviet Republic.

Open to juniors, seniors, and graduates.

456. THE NORTH AMERICAN MIDWEST. (Omitted 1961-62).

(4 q. hrs.)

A regional approach to central U. S. climate, settlement, agriculture, industry, trade and transportation. The emphasis is on the geography of Illinois.

Open to juniors, seniors, and graduates.

470. HISTORICAL GEOGRAPHY OF THE UNITED STATES.

(Omitted 1961-62). (4 q. hrs.)

A study of the elements of geography and the role they played in the various stages in the settlement and subsequent development of the United States.

Open to juniors, seniors, and graduates.

471. POLITICAL GEOGRAPHY. (Omitted 1961-62). (4 q. hrs.)

A study of the great world powers in the light of their geographic conditions. Analysis is made of the current "hot spots" and the fundamentals of national strength.

Open to juniors, seniors, and graduates.

480. ADVANCED CARTOGRAPHY. Winter. (4 q. hrs.)

A study of the history, uses, and construction of maps, carto-

graphic work and use of aerial photographs; individual projects and problems.

Open to juniors, seniors, and graduates.

487. REGIONAL PROBLEMS IN CONSERVATION.

(Omitted 1961-62). (4 q. hrs.)

The distribution, use, and interrelationship of the resources in the various resource management regions of the United States, the conservation techniques applied to them, and the problems of public policy in their effective management.

Open to juniors, seniors, and graduates.

490. SPECIAL PROBLEMS IN GEOGRAPHY. Fall and Spring.

(4 q. hrs.)

Provides opportunity for the student to do independent study in the field of geography. Designed for the individual needs of the student at either the undergraduate or graduate level.

Open to juniors, seniors, and graduates.

510. THE LITERATURE AND MATERIALS OF GEOGRAPHY.

(Omitted 1961-62). (4 q. hrs.)

Acquaints graduate students in geography with the materials available for study, research, and teaching in the field. Basic philosophies in geography are analyzed.

Open only to graduates.

550. GEOGRAPHY IN WORLD AFFAIRS. (Omitted 1961-62).

(4 q. hrs.)

Opportunity given to study the working bonds between man and the environment with particular emphasis upon the natural resources, agricultural and industrial production and transportation in national affairs. Problems of international politics are considered and the geographic foundations of these problems analyzed. No previous work in geography required.

Open only to graduates. A Group III course in the Master's Degree program.

551. A GEOGRAPHY OF MAN. Spring. (4 q. hrs.)

A cultural course designed to give the student a better understanding of the role of geography in human affairs. Special attention given to the literature of the field and more recent developments in geography.

Open only to graduates. A Group III course in the Master's Degree program.

552. EARTH INTERPRETATIONS. Winter. (4 q. hrs.)

Cultural course for the student with little or no previous work in physical geography. Physical resources are analyzed as they are inter-related to each other and to man.

Open only to graduates. A Group III course in the Master's Degree program.

553. BIO-GEOGRAPHY. (Omitted 1961-62). (4 q. hrs.)

A study of the factors which influence plants and animals in terms of distribution and environment. Past and present relief, climatic conditions, including glaciation, soils, physiognomy, migration, including barriers, succession, climax, and competition are considered. Field work in the local area is provided.

Open only to graduates.

590. SEMINAR IN EDUCATIONAL GEOGRAPHY. (Omitted 1961-62).
(4 q. hrs.)

The place of geography among the disciplines in the curriculum at all levels of instruction from the elementary school through the junior college. The student is required to present a written report of significant research on some phase of educational geography.

Open only to graduates.

595. THESIS. (4 q. hrs.)

GERMAN

(See Foreign Languages)

HEALTH EDUCATION

120. PERSONAL HYGIENE. Every quarter. (4 q. hrs.)

The 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 and Spring. (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.

Prerequisite: Health Education 120 or its equivalent.

330. 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.

331. INTRODUCTION TO DRIVER EDUCATION. Fall and Spring.
(4 q. hrs.)

The first of two courses designed to prepare teachers of driver education for secondary schools. The place of the motor vehicle in American life; traffic safety; instructional materials and recommended methods of presenting such materials in the classroom and in the car on the road; laboratory work with beginning drivers.

Prerequisite: The student must have (1) an Illinois driver's license, and (2) a safe driving record.

332. ADVANCED DRIVER EDUCATION AND TRAFFIC SAFETY.
Spring. (4 q. hrs.)

A continuation of Health Education 331, with special attention to administration, organization, finance, adult education and evaluation of the school driver education program. Traffic safety problems on the local, state, and national levels are considered. Successful completion of H. Ed. 331 and H. Ed. 332 qualifies a student for teacher certification in driver education in Illinois.

Prerequisite: Health Education 331.

HISTORY

(See Social Science)

HOME ECONOMICS

Note 1. The four-year curriculum in home economics is designed to prepare students to teach home economics in high schools receiving Federal and State aid from the Vocational Education Program.

2. Home Economics 202, 203, 204, 230, 320, 344 have two lectures and two laboratory periods per week; Home Economics 101, 201, 301 meet eight periods per week; all other Home Economics courses meet four periods per week.

3. No minor required for home economics majors.

101. CLOTHING CONSTRUCTION. Every quarter. (4 q. hrs.)

Simple construction processes; interpretation and use of commercial patterns.

102. ELEMENTARY NUTRITION. Fall and Winter. (4 q. hrs.)

The principles of human nutrition and their application to everyday nutritional problems; the relation of good food habits to the selection of an adequate dietary.

131. CLOTHING SELECTION. Fall and Spring. (4 q. hrs.)

An introduction to consumer buying of ready-to-wear clothing; includes the study of fabrics, construction features, and design and color principles.

201. ADVANCED CLOTHING CONSTRUCTION. Fall. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and fitting garments.

Prerequisite: Home Economics 101, 131, or consent of instructor.

202. FOOD PREPARATION. Fall. (4 q. hrs.)

A study of the scientific principles underlying food preparation and their application illustrated in the laboratory.

Prerequisite: Home Economics 102, Chemistry 153, 154, 155 or consent of the instructor.

203. MEAL MANAGEMENT. Winter. (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.

Prerequisite: Home Economics 202.

204. EXPERIMENTAL FOODS. Spring. (4 q. hrs.)

The study of physical and chemical basis of food preparation by use of group experiments which illustrate results of variations in ingredients and manipulation.

Prerequisite: Home Economics 203.

230 (330). HOUSEHOLD EQUIPMENT. Winter. (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.

231. SOCIOLOGY OF CLOTHING. Spring. (2 q. hrs.)

The significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends effecting clothing; and an analysis of the fashion market.

245. HOME MANAGEMENT THEORY. 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.

300. FINANCE MANAGEMENT. Spring. (4 q. hrs.)

A broad coverage of practical financial problems applied to the managing of personal and family finances.

- 301 (304). TAILORING. Fall and Spring. (4 q. hrs.)
Tailoring techniques used in the construction of a suit or coat.
Prerequisite: Home Economics 201.
320. FAMILY HOUSING. Fall and Winter. (4 q. hrs.)
Choices available in moderate-priced housing for the family; includes the arrangement and use of space; adaption of basic plans to individual needs; legal and financial considerations in renting, buying, or building; types of architecture used in American homes; methods and materials of construction.
340. METHODS OF TEACHING HOME ECONOMICS. Spring. (4 q. hrs.)
The principles of teaching applied to home economics with particular emphasis on developing the curriculum, and the organization and administration of vocational departments in the public schools.
Prerequisite: Admission to teacher education.
344. NUTRITION AND DIETETICS. Winter and Spring. (4 q. hrs.)
The chemistry and physiology of nutrition; food requirements of persons of different ages; adapting diet to nutritional disorder.
Prerequisite: Home Economics 102; Chemistry 153, 154, 155.
345. HOME MANAGEMENT HOUSE RESIDENCE. 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.
Prerequisite: Home Economics 245 and 204. Advanced registration with department required.
346. CHILD DEVELOPMENT. Winter. (4 q. hrs.)
The physical, mental, social, and emotional development of the pre-school child.
347. FAMILY RELATIONSHIPS. Winter. (4 q. hrs.)
A study of family life comparing past and present, with emphasis on planning for the future. Some consideration is given to the teaching of family living in secondary schools.
350. CONSUMER PROBLEMS. (Omitted 1961-62). (4 q. hrs.)
The consumer's problems in the present-day markets; factors influencing consumer's demands; standardization and informative labeling.
360. QUANTITY COOKERY. (Omitted 1961-62). (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 University food service.

Prerequisite: Home Economics 102, 202, 203, and 204.

401. FLAT PATTERN DESIGN. (Omitted 1961-62). (4 q. hrs.)

Principles of designing clothing and the translation of these designs into paper patterns; includes pattern drafting, grading, and fitting garments. Each student is required to create an original design, draft the pattern, and construct the garment.

Prerequisite: Home Economics 301 or consent of instructor.

420. INTERIOR DESIGN. (Omitted 1961-62). (4 q. hrs.)

Selection and arrangement of furnishings with the emphasis on planning costs and budgets for different income levels; development of furniture styles; types of construction found in furniture; functional planning of individual rooms including the study of accessories, color schemes, and suitable fabrics.

430. HOME FURNISHINGS. Spring. (4 q. hrs.)

A study of the consumer's problems in the selection of home furnishings. Making of draperies, slip covers, and the upholstering of furniture is included in the laboratory work.

431. TEXTILES AND SENIOR SEMINAR. Winter and Spring. (4 q. hrs.)

A detailed study of fibers, yarns, weaves, and finishes that are on the market; interrelation of fiber properties; construction, and finishes, on fabric performance; production and consumption of textile fibers. Current trends and research in home economics education.

INDUSTRIAL ARTS

100. INDUSTRIAL MATHEMATICS. Winter and Spring. (4 q. hrs.)

The practical applications of arithmetic, algebra, and geometry to the laboratory work of industrial arts. The reading of logarithmic tables and their applications are included.

Open only to Industrial Arts majors. No credit toward graduation in other curricula.

134. WOODWORK I. Fall and Winter. (4 q. hrs.)

Function, care, and use of woodwork hand tools, woodwork supplies, and finishes. Two class discussions and six hours laboratory work each week.

135. WOODWORK II. Winter and Spring. (4 q. hrs.)

Continuation of Industrial Arts 134: study and use of power woodwork equipment. Two class discussions and six hours laboratory work each week.

Prerequisite: Industrial Arts 134.

140 (136). GENERAL METAL. Every quarter. (4 q. hrs.)

The development of manipulative techniques in the use of hand tools and machines for working iron, steel, and non-ferrous metals; processes in forming, shaping and finishing hot and cold metal. Two class discussions and six hours laboratory work each week.

150. APPLIED ELECTRICITY. Every quarter. (4 q. hrs.)

Treatment of electrical problems arising around the home forms the core for this course. House wiring, power circuits, automotive electricity, and the repairing of electrical appliances are studied. Four class discussions and two hours laboratory work each week.

224. PRIMARY GRADE HANDWORK. Every quarter. (4 q. hrs.)

Designed to explore the history and possibilities of handwork as a teaching device in the lower grades. The laboratory phase of the course will deal with the following materials: paper, textiles, Keen's cement, reed, raffia, clay, and blue printing materials. A teaching unit is developed and the techniques of requisitioning supplies are studied. Two class discussions and six hours of laboratory work each week.

225. INTERMEDIATE GRADE HANDWORK. Winter. (4 q. hrs.)

The laboratory phase of the course will consist of experiences in woodcraft, wood carving, metal foil tooling, block printing, ceramics, and others. A study of tools, materials, processes, techniques of requisitioning for elementary craft programs will be undertaken. Two class discussions and six hours laboratory work each week.

231. MECHANICAL DRAWING I. Fall and Winter. (4 q. hrs.)

Techniques of drafting, instrument practice, sketching, geometrical construction, pictorial drawing, multiview projection, dimensioning, sectioning, and reproduction of drawings. One class discussion and seven hours of laboratory work each week.

232. MECHANICAL DRAWING II. Winter and Spring. (4 q. hrs.)

Pictorial sectioning, representation of machine fasteners, development of surfaces and intersections. One class discussion and seven hours of laboratory work each week.

Prerequisite: Industrial Arts 231.

233. MECHANICAL DRAWING III. Spring. (4 q. hrs.)

Techniques of drafting as applied to industrial working drawings in design, layout, detail drawings, assembly drawings, parts lists, gearing and cams. Shop sketching is included.

Prerequisite: Industrial Arts 232.

245. INDUSTRIAL ARTS DESIGN. Fall and Spring. (2 q. hrs.)

Designing as applied to Industrial Arts projects is the principal

emphasis. The functional approach is used with fitness to materials, techniques, physical, social and psychological considerations as factors influencing design.

259. INTRODUCTION TO GRAPHIC ARTS. Fall and Winter. (4 q. hrs.)

Laboratory work in areas of hand composition, platen press-work, bookbinding, and papermaking. Historical development of printing, printing processes, graphic arts occupations, the printing industry, and graphic arts in education are areas of discussion. Two hours of discussion and six hours of laboratory work per week.

260. ADVANCED GRAPHIC ARTS. Winter and Spring. (4 q. hrs.)

Laboratory work in hand composition of commercial printing jobs, platen press make-ready, feeding, care and adjustment, silk screen printing, linoleum-block cutting and printing, rubber stamp making. Study of typographic design principles, printing inks, paper manufacture, recognition, and uses of paper, type design and elementary layout work. Two hours of discussion and six hours of laboratory work per week.

Prerequisite: Industrial Arts 259.

265. WOODFINISHING. Fall and Spring. (2 q. hrs.)

Discussion periods: preparation of surfaces to be finished, bleaches, stains, fillers, resinous finishes, wipe-on finishes and re-finishing.

Laboratory: experimenting with a variety of finishes applied with various methods to a variety of woods.

300. APPLIED ELECTRONICS. Winter. (4 q. hrs.)

Study of electronic circuits and their component parts as used in practical application with electronic equipment controls, motor controls, automatic door openers, and radio receivers and transmitters. Laboratory work in assembly and testing of electronic circuits, radio alignment, and the experimentation with electronic kits now available for personal and school use.

Four class discussions and two hours of laboratory work per week.

Prerequisite: Industrial Arts 150.

326. SHEET METAL. Fall and Spring. (4 q. hrs.)

Techniques in the use of hand tools and machines for shaping sheet metal; practice in surface development; study of pertinent subject matter. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 232.

336. MILLWORK. Every quarter. (4 q. hrs.)

Furniture and cabinet making with woodwork machines; care and adjustment of machines; spray finishing; planning laboratory

activities. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 135, 232, 245, and 265. The student pays for material used in this course.

340. METHODS OF TEACHING INDUSTRIAL ARTS. Fall and Spring.
(4 q. hrs.)

The selection, organization, and preparation of instructional content for class and laboratory use. Application of appropriate principles of teaching.

Prerequisite: Six industrial arts laboratory courses with at least two in same subject. Students completing this course may not elect Industrial Arts 340A. Admission to teacher education.

340A. ORGANIZING AND TEACHING THE GENERAL SHOP. Spring.
(4 q. hrs.)

From the general shop approach the following is included: choosing objectives of work; selecting and organizing teaching materials; laboratory planning; and testing.

Prerequisite: All laboratory courses required in minor. Students completing this course may not elect for credit Industrial Arts 340. Admission to teacher education.

352. MACHINE METAL WORK I. Fall and Winter. (4 q. hrs.)

Theory and operation of the lathe, milling machine, shaper, surface and pedestal grinders, and drill press. The study of tapers, threads, abrasives, and layout procedures. Two hours discussion and six hours of laboratory per week.

Prerequisite: Industrial Arts 136.

354. MACHINE METAL WORK II. Winter and Spring. (4 q. hrs.)

Advanced techniques of lathe, milling machine, shaper, and grinder operation. The study of precision measurement, metallurgy, heat-treatment, and gearing. Two hours discussion and six hours of laboratory per week.

Prerequisite: Industrial Arts 352.

356. MACHINE METAL WORK III. Spring. (4 q. hrs.)

Machining of castings, study of foundry practices, tool and cutter grinding, gear cutting, heat-treatment. One hour discussion and seven hours laboratory per week.

Prerequisite: Industrial Arts 354.

361. LINOTYPE OPERATION AND MAINTENANCE. Fall. (4 q. hrs.)

The care, adjustment, and repair of the linotype. Machine composition of typical commercial and newspaper jobs. Two hours of class work and six hours of laboratory work per week. (Arrangements for laboratory work are made individually with the instructor.)

Prerequisite: Industrial Arts 260.

375. WOODTURNING. Fall. (2 q. hrs.)

Operation and care of wood lathes; the use of lathe tools for spindle and face plate turning. One class discussion and three hours laboratory work each week.

Prerequisite: Industrial Arts 336.

380 (350). HOUSING I. Fall and Winter. (4 q. hrs.)

Neighborhood planning as it affects residential districts, cost factors in house construction, architectural services, architectural styles, interior planning, and mechanical considerations. A house is planned and presentation drawings are prepared.

382 (355). HOUSING II. Winter and Spring. (4 q. hrs.)

A continuation of Industrial Arts 350. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and six hours at laboratory each week.

Prerequisite: Industrial Arts 350.

420. GAS AND ELECTRIC ARC WELDING. Fall and Spring.

(4 q. hrs.)

The study of welding technology. The development of basic skills in the operation of both oxy-acetylene and electric arc welding equipment. Care and maintenance of welding equipment. The place of welding in fabrication and maintenance. Two hours discussion, six hours laboratory per week.

444. TOOL MAINTENANCE. Fall. (2 q. hrs.)

Reconditioning and care of hand operated and power saws, straight edge cutting tools, auger-bits and other wood boring tools. One class discussion and three hours laboratory work each week.

Prerequisite: Industrial Arts 336.

447. SPECIAL PROBLEMS IN INDUSTRIAL ARTS. (On demand.)

(4 q. hrs.)

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. Student pays for material used in this course.

451. ORGANIZATION OF SUBJECT MATTER. Winter. (4 q. hrs.)

A continuation of Industrial Arts 340 involving 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."

Prerequisite: Industrial Arts 340. Open to seniors, and graduates.

452. RECREATIONAL CRAFTS. Spring. (4 q. hrs.)

Designed for those particularly interested in junior high school, industrial arts teaching, or those interested in crafts as a recreational or leisure-time pursuit. Technical information and laboratory experiences will be pursued in the following areas: plastics, art metal, leather craft, wood crafts, wood carving, block printing, and Keene's cement craft. Students electing this course for graduate credit will, in addition to the normal course requirements, make a substantial investigation and prepare a paper concerning some phase of craft work. (An individual who elects this course may not take Industrial Arts 225 for credit.) Two class discussions and six hours laboratory work each week.

Open to juniors, seniors, and graduates.

550. GRAPHIC ARTS IN A CHANGING CULTURE. Winter, Spring.

(4 q. hrs.)

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: to develop an appreciation of the position and influence of printing historically and in present-day living and 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 for the degree, M.S. in Ed.

560. ACHIEVEMENT EVALUATION IN INDUSTRIAL ARTS.

Spring. (4 q. hrs.)

Kinds and types of evaluating instruments; principles of test construction; and construction of several tests. 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. Fall. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present outstanding educational practices; relationships of practical arts education, vocational education, and general educa-

tion; philosophical considerations underlying vocational education in respect to recent developments in terminal educational programs.

Open only to graduates.

570. DESIGN AND CONSTRUCTION IN INDUSTRIAL ARTS. Winter.
(4 q. hrs.)

Designing of projects in selected areas of industrial arts activities. Special attention is given to combining in the chosen projects good principles of design and principles of construction suitable to equipment found in industrial arts laboratories and to desired teaching units. Two hours class work each week and four hours of laboratory work.

Prerequisite: Industrial Arts major including a background in principles of design. Open only to graduates.

575. SPECIAL INVESTIGATIONS IN INDUSTRIAL ARTS. Offered on demand. (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 must 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 must first be approved by the assigned adviser and the head of department. A detailed written report of work undertaken is required at close of the course. Conducted by conference method.

Open only to graduates.

580. PLANNING OF INDUSTRIAL ARTS LABORATORY. Spring.
(4 q. hrs.)

Building and equipment needs for various industrial arts laboratories. Special consideration is given to the industrial arts objectives so that laboratories may be planned for optimum student development. Opportunities are offered for planning industrial arts laboratories. Two hours class work each week and four hours of laboratory work.

Open only to graduates.

595. THESIS. (4 q. hrs.)

JOURNALISM

(See English 210J, 211J, 212J, 310J, 311J, 312J)

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

Note: The Library Science program provides a sequence of courses designed to prepare librarians for the public schools of Illinois. A minor consisting of 24 quarter hours is required for certification as a school librarian. In addition, students are strongly urged to register for Library Science 441, and for Education 487, Introduction to Audio-Visual Education.

120. LIBRARY USE. Winter, Spring. (1 q. hr.)

An orientation course covering library tools, techniques, and services with special emphasis on the card catalogue, periodical indexes, and reference books. Required for graduation.

Formal class instruction is not given during the Fall Term, but entering students may obtain the textbook and attend the series of informal lectures offered during the term. Exemption is by test, given shortly before the regular fall examinations.

250. THE SCHOOL LIBRARY. Fall. (4 q. hrs.)

An introductory course concerned with the relation of the library to the total school program. Functions of a school library; its organization and administration. Housing, equipment, records, business practices. School library standards. Responsibility of the librarian to students and school personnel.

324. BOOK SELECTION. Fall. (4 q. hrs.)

The selection and acquisition of printed materials for library use. Evaluation of books and periodicals, purchasing procedure, trade bibliographies, authors and publishers, reviewing media.

325. REFERENCE SERVICES. Winter. (4 q. hrs.)

The library as an information center. Questions, and where to find answers. The nature and use of research materials. Periodical literature and the periodical index; dictionaries, encyclopedias, and yearbooks. Preparation and use of bibliographies.

326. READING GUIDANCE FOR THE SECONDARY SCHOOL. Fall.

(4 q. hrs.)

Reading needs, interests, abilities and patterns of the adolescent (gr.9-12) as determined by selected research in the field; acquaintance with and appreciation of recreational and informational books on various reading levels; the development of literature for adolescents.

330. READING GUIDANCE FOR THE ELEMENTARY SCHOOL.

Winter. (4 q. hrs.)

History of children's books, methods of evaluation; authors, series, and illustrators; publishers of children's books; methods of stimulating reading interest.

350. TECHNICAL PROCESSES. Spring. (4 q. hrs.)

Indexing, classifying, and cataloging library materials. Preparation of materials for use. Shelf-list and card catalogue. Subject headings, author numbers, filing rules. Basic library records.

441. LIBRARY PRACTICE. Spring. (2 q. hrs.)

Designed to provide practical experience in library routines and services, with special emphasis on service to the public. Four practice periods per week.

MATHEMATICS

Note: 1. In planning student programs it is important to check the course prerequisites as listed with the course descriptions. The phrase "college preparatory mathematics" refers to courses in algebra, plane geometry, solid geometry, and trigonometry as taught in most of the high schools of Illinois. It also refers to such sequences as Math I, Math II, Math III, and Math IV offered by some high schools today. These courses may consist largely of a rearrangement of the traditional courses or they may be entirely new courses, such as those developed by the University of Illinois School Mathematics Project. The phrase "college preparatory mathematics" does not include the course labeled "general mathematics", or "consumer mathematics", as taught in many secondary schools.

2. Students whose background in college preparatory mathematics is weak may receive help in high school algebra and geometry by reporting to the Department Assistant on duty during float periods.

3. Since the content of Mathematics 128 and 129 duplicates that of Mathematics 130 and 131, the maximum amount of credit from these four courses which may be applied toward graduation is 8 quarter hours.

120. ARITHMETIC IN THE LOWER GRADES. Fall, Winter. (4 q. hrs.)

The subject matter and methods of teaching arithmetic in the lower grades. Credit for this course does not apply toward graduation except in the curriculum for elementary teachers.

121. ARITHMETIC IN THE UPPER GRADES. Winter, Spring.
(4 q. hrs.)

The subject matter and methods of teaching arithmetic in the upper grades. Credit for this course does not apply toward graduation except in the curriculum for elementary teachers.

Prerequisite: Mathematics 120.

125. AN INTRODUCTION TO COLLEGE MATHEMATICS. Every quarter.
(4 q. hrs.)

Numeral systems; a postulational development of the natural

number system; the mathematical bases of the computation algorithms of elementary mathematics; the growth of the number concept; truth tables and rules of inference; sets, relations, and functions; an introduction to groups and fields.

128. COLLEGE ALGEBRA. (Omitted 1961-62). (4 q. hrs.)

The real number system; functions and graphs; equations and inequalities; systems of equations; mathematical induction; exponents and logarithms.

Prerequisite: Two years of college preparatory mathematics.

129. TRIGONOMETRY. (Omitted 1961-62). (4 q. hrs.)

Trigonometric functions; graphs; identities and equations; application to solution of triangles, complex numbers.

Prerequisite: Two years of college preparatory mathematics.

130. ALGEBRA AND TRIGONOMETRY. Fall, Winter, Spring.

(4 q. hrs.)

Trigonometric functions; application to triangle solution; properties of the real numbers; sets; functions; equations; determinants and systems of linear equations.

Prerequisite: Two years of college preparatory mathematics.

131. ALGEBRA AND TRIGONOMETRY. Fall, Winter, Spring.

(4 q. hrs.)

Mathematical induction; binomial theorem, exponents and logarithms; trigonometric identities and equations; complex numbers; theory of equations.

Prerequisite: Three years of college preparatory mathematics and permission of the department head, or three years of college preparatory mathematics and Mathematics 129, or Mathematics 130.

134. ANALYTIC GEOMETRY. Fall, Winter, Spring. (4 q. hrs.)

Coordinate systems, straight lines, conic sections, polar and parametric forms; curve sketching techniques.

Prerequisite: Mathematics 131 or the equivalent, or four years of college preparatory mathematics and permission of the department head.

227. SCHOOL GEOMETRY. Spring. (4 q. hrs.)

Historical development of geometry. Formal and informal geometry. Informal solid geometry. Recent trends in the teaching of geometry.

Prerequisite: Two years of college preparatory mathematics or Mathematics 125.

228. COLLEGE GEOMETRY. Fall, Spring. (4 q. hrs.)

Advanced Euclidean plane geometry; directed lines and angles; cyclic quadrilaterals; elementary transformations; geometry

of the triangle; homothetic figures; harmonic ranges; cross ratio; inversions; poles and polars; complete quadrilaterals and quadrangles; theorems of Menelaus, Ceva and Desargue; ruler and compass constructions.

Prerequisite: Mathematics 134.

233. FIELD WORK IN MATHEMATICS. Spring. (4 q. hrs.)

Approximate computation; theory and use of the slide rule; spherical trigonometry; mathematical geography; surveying equipment and its use in field problems.

Prerequisite: Mathematics 131 or the equivalent.

235, 236. CALCULUS. Fall, Winter, Spring.

(4 q. hrs. for each course)

The derivative concept; differentiation formulas; differentials; the law of the mean; antiderivatives; the definite integral concept; integration techniques; applications.

Prerequisite: Mathematics 134.

340. METHODS OF TEACHING MATHEMATICS. Winter, Spring.

(4 q. hrs.)

The mathematics curriculum in the junior and senior high schools. Methods, texts, audio-visual aids, manipulative aids, models, professional organizations and journals. An introduction to teaching experiences; critiques.

Prerequisite: Mathematics 235. Admission to teacher education.

343. ALGEBRA. Fall, Winter. (4 q. hrs.)

Sets and relations; rings; integral domains; fields; polynomials; groups.

Prerequisite: Mathematics 235.

344. LINEAR ALGEBRA. Winter, Spring. (4 q. hrs.)

The algebra of vectors and matrices; application to systems of linear equations, linear transformations, transformation of coordinate axes.

Prerequisite: Mathematics 343.

345. CALCULUS. Fall, Winter, Spring. (4 q. hrs.)

Integration techniques, infinite series, partial differentiation, multiple integration, with applications.

Prerequisite: Mathematics 236.

350. DIFFERENTIAL EQUATIONS. Fall, Winter. (4 q. hrs.)

Formal solutions of ordinary differential equations; a critical analysis of some elementary types; envelopes, trajectories, singular solutions, applications.

Prerequisite: Mathematics 345.

351. DIFFERENTIAL EQUATIONS. Winter, Spring. (4 q. hrs.)

Development of the theory and techniques associated with the linear differential equation; applications; existence theorems; systems of linear differential equations; methods of approximation.

Prerequisite: Mathematics 350.

391. PROBLEMS IN THE TEACHING OF ARITHMETIC.

(Omitted 1961-62). (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

392. SOME NEW UNITS IN MATHEMATICS FOR THE UPPER GRADES.

(Omitted 1961-62). (4 q. hrs.)

A course based on units recently proposed by the School Mathematics Study Group for grades seven and eight with particular emphasis on methods of teaching these units. Topics from algebra, number theory, set theory, and geometry.

Prerequisite: Two years of teaching experience in the upper grades or permission of the instructor. Not open to mathematics majors.

460, 461. ADVANCED CALCULUS. (Omitted 1961-62).

(4 q. hrs. for each course)

Vectors and vector functions; the calculus of functions of several variables; line and surface integrals; Green's Theorem, and Stokes' Theorem.

Prerequisite: Mathematics 345. Open to juniors, seniors, and graduates.

470, 471. STATISTICS. Winter, Spring. (4 q. hrs. for each course)

Probability; nature of statistical methods; empirical and theoretical frequency distributions of one variable; elementary sampling theory for one variable; correlation and regression; testing goodness of fit; general principles for testing hypotheses and for estimation; small sample distributions; statistical design in experiments.

Prerequisite: Mathematics 236. Open to juniors, seniors, and graduates.

480. MATHEMATICS OF FINANCE. Spring. (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 juniors, seniors, and graduates.

490. HISTORY OF MATHEMATICS. (Omitted 1961-62). (4 q. hrs.)

Development of number systems; ancient Babylonian and Egyptian mathematics; development of proof in mathematics; Euclid's Elements and its critique; duplication, trisection, and quadra-

ture problems; Hindu and Arabian contributions to mathematics; mathematics in the Dark Ages; origins of modern mathematics. Men and their contributions to mathematical thought.

Prerequisite: Mathematics 236. Open to juniors, seniors, and graduates.

510. MODERN ALGEBRA. Summer 1961. (4 q. hrs.)

Postulational development of number systems; selected topics from the theories of groups, rings, fields, vector spaces and matrices.

Prerequisite: Mathematics 344. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

520. HIGHER GEOMETRY. Summer 1964. (4 q. hrs.)

A selection of topics from projective geometry, differential geometry, non-eculidean geometries, and topology.

Prerequisite: Mathematics 344 or permission of the instructor. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

530. ANALYSIS. Summer 1963. (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. Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

540. THE TEACHING OF ARITHMETIC IN THE PRIMARY AND INTERMEDIATE GRADES. Summer 1961. (4 q. hrs.)

The techniques, methods, and materials use in teaching the concepts and skills of arithmetic in grades one through six.

Primarily for graduates. Open to seniors with permission of the instructor and Dean.

541. THE TEACHING OF MATHEMATICS IN GRADES 7, 8, AND 9.

Summer 1961. (4 q. hrs.)

The techniques, methods, and materials used in teaching mathematics in grades seven, eight, and nine.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean.

550. MATHEMATICS IN MODERN EDUCATION AND LIFE.

Winter, Summer 1961. (4 q. hrs.)

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.

570. PROBLEMS IN THE TEACHING OF MATHEMATICS.

Summer 1962. (4 q. hrs.)

Recent curriculum advancements; study of topics selected from those proposed for study in secondary schools; effective teaching methods; assigned readings; reports.

Open only to graduates.

595. THESIS. (4 q. hrs.)

MUSIC

120. INTRODUCTION TO MUSIC. Every quarter. (4 q. hrs.)

Primary emphasis is placed upon the musical development of the prospective teacher through group and individual singing, bodily movements in response to rhythms, elementary music theory, ear-training and simple dictation, music reading, elements of design in music, and acquaintance with music literature used in the elementary phase of the music curriculum.

123, 124, 125. SIGHT SINGING, THEORY AND DICTATION.

Fall, Winter and 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.

126, 127, 128. CLASS INSTRUCTION IN PIANO. Fall, Winter and Spring. (1 q. hr. for each course)

A beginning course for students without 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.

133, 134, 135. THE FIRST YEAR'S WORK IN APPLIED MUSIC. PIANO, VOICE, STRINGS, WOODWINDS, ORGAN, OR BRASSES.

Every quarter. (1 q. hr. for each course)

136, 137, 138. CLASS INSTRUCTION IN VOICE. Fall, Winter and Spring. (1 q. hr. for each course)

The course includes the development of fundamental vocal techniques, an introduction to song interpretation, and attention to demonstrated methods of teaching singing.

146, 147. VIOLIN CLASS METHODS. Fall and Winter.

(2 q. hrs. for each course)

228. MUSIC IN ELEMENTARY SCHOOLS. Fall, Winter, 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 Laboratory School.

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.

230, 231, 232. HARMONY. Fall, Winter and 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 contrapuntal 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, keyboard harmonization, and original settings to melodies.

Prerequisite: Music 125.

233, 234, 235. THE SECOND YEAR'S WORK IN APPLIED MUSIC.

Every quarter. (1 q. hr. for each course)

236. WOODWIND CLASS METHODS—CLARINETS.

Every quarter. (2 q. hrs.)

237. BRASS CLASS METHODS—TRUMPET AND HORN.

Every quarter. (2 q. hrs.)

238. VIOLONCELLO AND CONTRA-BASS METHODS. Spring.

(2 q. hrs.)

256. ENSEMBLE: CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, AND MEN'S GLEE CLUB.

(1 q. hr. for any combination of three organizations in a given quarter.)

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. Every quarter. (2 q. hrs.)

338. WOODWIND CLASS METHODS—FLUTE, OBOE, AND BASSOON.

Every quarter. (2 q. hrs.)

339. METHODS OF TEACHING VOCAL MUSIC IN ELEMENTARY SCHOOLS. Spring. (4 q. hrs.)

The five-fold program of the elementary school, grades one through eight, is taught through discussion, demonstration, and observation.

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.

Prerequisite: Admission to teacher education.

347. ORCHESTRATION. Fall. (4 q. hrs.)

Practical experience in scoring the string and wind instruments for public school music groups. Standard scores serve as a guide for study.

351, 352. HISTORY AND LITERATURE OF MUSIC. Fall and Winter. (4 q. hrs. for each course)

The development of music from its beginning; a study of schools, nationalities, composers, emphasizing representative musical literature, the second quarter's work designed to give an understanding and an appreciation of music from the listener's standpoint.

353. HISTORY AND LITERATURE OF MUSIC. Spring. (4 q. hrs.)

Twentieth-century music; an analysis of small and large forms, points in contemporary styles of composition; American composers, their contribution, their style, and their literary offerings.

356. ENSEMBLE: CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, AND MEN'S GLEE CLUB.

(1 q. hr. for any combination of three organizations in a given quarter.)

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.

449. ELEMENTARY 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.

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.

Prerequisite: Music 449. Open to juniors, seniors, and graduates.

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.

Open to juniors, seniors, and graduates.

452. PSYCHOLOGY OF MUSIC. (Omitted 1961-62). (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.

Open to juniors, seniors, and graduates.

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.

Open to juniors, seniors, and graduates.

454. ADVANCED ORCHESTRATION. (Omitted 1961-62). (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.

Open to juniors, seniors, and graduates.

455. INSTRUMENTATION. Spring. (4 q. hrs.)

This is a course in arranging materials for instrumental ensembles of the public school. Group needs are analyzed and projects are prepared and performed by special ensembles.

Prerequisite: Music 347. Open to juniors, seniors, and graduates.

456. ENSEMBLE: CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, MEN'S GLEE CLUB.
(1 q. hr. for any combination of three organizations in a given quarter.)

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.

Open to juniors, seniors, and graduates.

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.

Open to juniors, seniors, and graduates.

460. MARCHING BAND PROCEDURE. Fall. (2 q. hrs.)

Rudiments of marching and playing in field maneuvers. Training the band in pageantry and formations is accomplished through laboratory experiences.

Open to juniors, seniors, and graduates.

461. INSTRUMENT REPAIR AND ADJUSTMENT. (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.

Open to juniors, seniors, and graduates.

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. (Omitted 1961-62). (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. (Omitted 1961-62). (4 q. hrs.)

The course includes a study of eighteenth century counter-

point 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. (Omitted 1961-62).

(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.

(Omitted 1961-62). (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. (Omitted 1961-62).

(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. (Omitted 1961-62).

(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.

Primarily for graduates. Open to seniors with permission of instructor and the Dean.

550. MUSIC IN HISTORY. (Omitted 1961-62). (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 surrounded 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. Fall. (4 q. hrs.)

This course is designed for the non-music student and is plan-

ned 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. (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.

(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. (2 q. hrs.)

This course includes practical work 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 SCHOOL.

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 gather-

ings. The community sing, camp-fire singing, and the church choir are given comprehensive study.

Open only to graduates.

570. SURVEY OF MUSIC LITERATURE. (Omitted 1961-62).
(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.

595. THESIS. (4 q. hrs.)

Applied Music

Special lessons are offered in the principal instruments and mediums of performing music. Instruction is available in strings: violin, viola, violincello; brasses: trumpet, French horn, trombone, baritone and bass horn; woodwinds: oboe, clarinet, flute, saxophone, and bassoon; percussion: voice; piano; organ. In the case of organ, the student must demonstrate facility on the piano keyboard before acceptance.

The student majoring or minoring in music must select piano, organ, 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 96.

In order to meet the needs of the teacher of music in public schools the following outline of applied music is required. Minimum requirement for all majors is one year of piano and one year of voice. Other requirements are as follows:

Major	Voice or Piano	15 quar. hours
Minor	Piano or Voice	6 quar. hours
2d Minor	Band or Orch. Instrument	3 quar. hours
or		
Major	Band or Orch. Instrument	15 quar. hours
Minor	Piano	3 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 six to nine hours may thus be earned toward the 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. Elementary education majors may elect 4 quarter hours credit in any of the ensembles after the freshman year.

Credit is accumulated each quarter by adding $\frac{1}{3}$ quarter hour for each organization in which the student participates. No more than one quarter hour credit may be earned in a single quarter regardless of the number of organizations in which the student works during that quarter.

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 organi-

zation throughout the year, giving concerts for student body and the public. Some instruments are furnished to members by the University. 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 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.

Chamber groups of woodwinds, brasses and strings are organized to enrich the experience of 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 in order to prepare himself better for teaching in the public schools. 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 these recitals and other musical performances sponsored by the department and the University.

PHILOSOPHY

300. INTRODUCTION TO PHILOSOPHY. Fall. (4 q. hrs.)

The nature and methods of philosophy presented through analysis of representative philosophical issues. Knowledge and Truth, the Individual and the State, the Right and the Good, the Interpretation of Religion, God and Nature, and Alternative World Views.

301. HISTORY OF PHILOSOPHY: ANCIENT. Fall. (4 q. hrs.)

An historical approach to questions pertaining to Man, God, The World, and Value in which the ideas of philosophers from the Pro-Socratics through Aristotle are examined.

305. HISTORY OF PHILOSOPHY: MEDIEVAL. Fall. (4 q. hrs.)

An examination of the ideas of the principal philosophers from Epicurus through St. Thomas Aquinas. The foundations of Christianity and implications for philosophy and theology.

306. HISTORY OF PHILOSOPHY: MODERN. Winter. (4 q. hrs.)

An examination of philosophical inquiry from Galileo through Kant: The quest for certainty. The foundations of modern science and implications for religion, morals, and political theory.

400. LOGIC. Spring. (4 q. hrs.)

An analysis of the principles of valid reasoning with emphasis on the application of these principles to the effective communication of ideas; deductive logic; empirical scientific method.

402. ETHICS. Winter. (4 q. hrs.)

A systematic study of the principal types of ethical theory. A consideration of major issues in ethics: the Right and the Good, the nature and validity of moral standards, the problem of conduct, and free will.

Prerequisite: At least one course in Philosophy.

404. AESTHETICS. Spring. (4 q. hrs.)

An analysis of the meaning and value of beauty in terms of (1) an examination of the types, elements, and structure of aesthetic experience; (2) a consideration of significant interpretations of beauty in art; and (3) a critical study of aesthetic criteria.

Prerequisite: At least one course in Philosophy.

550. PHILOSOPHIC INQUIRY: AN ADVENTURE OF IDEAS. Summer. (4 q. hrs.)

An exploration of man's thinking about himself, God, the World and Values presented through an analysis of selected philosophers or schools of philosophy. This course is designed for the student with little or no previous training in philosophy.

Open only to graduate students; a Group III course in the Master's Degree Program.

PHYSICAL EDUCATION FOR MEN

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week during the fall, winter and spring quarters unless this requirement is modified by the college physician. It is the responsibility of the student, not his adviser, to see that this requirement is met, and to select his own courses for its fulfillment. 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 two courses in team games, two courses in individual activities, and one course in dance. No course may be repeated for credit without permission of the head of the Physical Education Department.

Prior to entering the University, each student is required to have 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 59.

Service Courses

Service courses in physical education are numbered to indicate the level of the work. Courses in the one hundred series are intended for beginners; those followed by the letter T indicate varsity competition; majors and minors in physical education should register for those service physical education courses which will serve as prerequisites for the professional "Technique of Teaching" courses. Veterans who are majors or minors in physical education are not exempted from service Physical Education or Health Education 120 if these courses are prerequisite to other professional courses, unless evidence is presented that the specific content of these courses has been covered in military service.

100. BASIC PHYSICAL EDUCATION. Winter. (1 q. hr.)

Activities to improve the general fitness and motor ability as related to 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.
102. BASEBALL (Beginning). Spring. (1 q. hr.)
103. BASKETBALL (Beginning). Fall and Winter. (1 q. hr.)
104. RECREATIONAL TEAM GAMES. Every quarter. (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). Every quarter. (1 q. hr.)
109. FOOTBALL (Beginning). Fall. (1 q. hr.)
110. ARCHERY (Beginning). Fall and Spring. (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 APPARATUS (Beginning). Winter and Spring. (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. Fall and Spring. (1 q. hr.)
117. STUNTS AND TUMBLING. Winter. (1 q. hr.)
118. SWIMMING (Beginning). Every quarter. (1 q. hr.)
119. BOWLING (Beginning). Spring. (1 q. hr.)
Open to both men and women.
190. FOLK AND SQUARE DANCING. Every quarter. (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).

318. SWIMMING. (Advanced). Spring. (1 q. hr.)

391. MODERN DANCE. (Composition). Spring. (1 q. hr.)
See Physical Education (Women).

Professional Courses

120. BASIC ACTIVITIES FOR ELEMENTARY AND SECONDARY SCHOOLS. Fall. (4 q. hrs.)
Games and activities for the elementary and secondary level including body mechanics; basic exercises; rhythms.

121. ELEMENTARY TUMBLING, STUNTS, AND PYRAMIDS.
Winter and Spring. (4 q. hrs.)
Basic tumbling skills; vaulting; trampoline.

131. FIRST AID AND SAFETY EDUCATION.
See Physical Education (Women).

132. LEADERSHIP IN RECREATION.
See Physical Education (Women).

150. INTRODUCTION TO PHYSICAL EDUCATION. Fall.
(4 q. hrs.)
General scope, purpose, history, growth and development of physical education.

203. TECHNIQUE OF TEACHING BASKETBALL. Fall and Winter.
(2 q. hrs.)
Prerequisite: Physical Education 103 or evidence of a level of competence in the specific skill necessary for teaching.

204. TECHNIQUE OF TEACHING RECREATIONAL TEAM GAMES.
Winter and Spring. (2 q. hrs.)
Prerequisite: Physical Education 104 or evidence of a level of competence in the specific skill necessary for teaching.

205. TECHNIQUE OF TEACHING SOCCER. Fall. (2 q. hrs.)
Prerequisite: Physical Education 105 or evidence of a level of competence in the specific skill necessary for teaching.

206. TECHNIQUE OF TEACHING SOFTBALL. Spring. (2 q. hrs.)
Prerequisite: Physical Education 106 or evidence of a level of competence in the specific skill necessary for teaching.
207. TECHNIQUE OF TEACHING TOUCH FOOTBALL. Fall.
(2 q. hrs.)
Prerequisite: Physical Education 107 or evidence of a level of competence in the specific skill necessary for teaching.
208. TECHNIQUE OF TEACHING VOLLEYBALL.
Every quarter. (2 q. hrs.)
Prerequisite: Physical Education 108 or evidence of a level of competence in the specific skill necessary for teaching.
210. TECHNIQUE OF TEACHING ARCHERY. Fall and Spring.
(2 q. hrs.)
Prerequisite: Physical Education 110 or evidence of a level of competence in the specific skill necessary for teaching.
211. TECHNIQUE OF TEACHING BADMINTON. Winter.
(2 q. hrs.)
Prerequisite: Physical Education 111 or evidence of a level of competence in the specific skill necessary for teaching.
212. TECHNIQUE OF TEACHING GOLF. Fall and Spring.
(2 q. hrs.)
Prerequisite: Physical Education 112 or evidence of a level of competence in the specific skill necessary for teaching.
213. TECHNIQUE OF TEACHING GYMNASTICS APPARATUS.
Spring. (2 q. hrs.)
Prerequisite: Physical Education 113 or evidence of a level of competence in the specific skill necessary for teaching.
214. TECHNIQUE OF TEACHING TENNIS. Fall and Spring.
(2 q. hrs.)
Prerequisite: Physical Education 114 or evidence of a level of competence in the specific skill necessary for teaching.
215. TECHNIQUE OF TEACHING WRESTLING. Winter.
(2 q. hrs.)
Prerequisite: Physical Education 115 or evidence of a level of competence in the specific skill necessary for teaching.
217. TECHNIQUE OF TEACHING STUNTS AND TUMBLING.
Winter. (2 q. hrs.)
Prerequisite: Physical Education 117 or evidence of a level of competence in the specific skill necessary for teaching.

218. TECHNIQUE OF TEACHING SWIMMING. Every quarter.
(2 q. hrs.)
Prerequisite: Physical Education 118, or Red Cross Certificate or evidence of a level of competence in the specific skill necessary for teaching.
227. HEALTH EDUCATION IN ELEMENTARY, JUNIOR, AND SENIOR HIGH SCHOOLS. Winter. (4 q. hrs.)
Organic functions and problems of effective healthful living.
Open to both men and women. Prerequisite: Health Education 120.
228. ORGANIZATION AND ADMINISTRATION OF PLAYGROUNDS.
Spring. (4 q. hrs.)
Administrative problems associated with the operation of playgrounds; personnel; publicity; financing; legal aspects; programming; operation of seasonal type playgrounds.
Open to both men and women.
235. THEORY OF PRESCRIBED EXERCISE.
See Physical Education (Women).
236. MUSIC IN RELATION TO THE DANCE.
See Physical Education (Women).
244. KINESIOLOGY. Every quarter. (4 q. hrs.)
Laws of physics applied to human motion; joint movements; motion of muscle groups. Analysis of fundamental body movements and the adaptation of gymnastic exercises to posture training and sports activities.
Prerequisite: Zoology 225.
340. ORGANIZATION OF GRADE LEVEL ACTIVITIES AND METHODS OF TEACHING THE ACTIVITY IN PHYSICAL EDUCATION.
Winter and Spring. (4 q. hrs.)
Organization of health and physical education activities for various age levels, and methods of teaching health and physical education.
Prerequisite: Eight quarter hours of physical education activities at the 200 level; admission to teacher education.
347. BASKETBALL COACHING. Fall and Winter. (4 q. hrs.)
Offensive and defensive styles of play; fundamentals; individual and team play; rules and strategy; conduct of tournament play.
348. FOOTBALL COACHING. Fall and Spring. (4 q. hrs.)
Fundamentals of football including blocking, tackling, passing, kicking, offensive and defensive line and backfield play; conditioning; strategy.

349. TRACK AND FIELD COACHING. Fall and Spring. (4 q. hrs.)
Fundamentals of running and starting; the pole vault; shot; discus; high and broad jumps; javelin; hurdles. Organization of track meets. Study of rules and strategy.
350. BASEBALL COACHING. Fall and Spring. (4 q. hrs.)
Fundamentals of batting; fielding; playing various positions. Rules; strategy; play situations.
351. CAMPING. (Omitted 1961-62). (4 q. hrs.)
Organization and administration of camps including program planning; counselor problems; camp policies.
352. ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL CHILD.
See Physical Education (Women).
357. GOLF COACHING. (Omitted 1961-62). (4 q. hrs.)
Fundamentals of golf including individual and team play; conduct of tournaments; care of equipment; maintenance of golf courses.
358. GYMNASTICS COACHING. (Omitted 1960-61). (4 q. hrs.)
Fundamentals of heavy apparatus; rings; trampoline; free exercise.
359. TENNIS COACHING. (Omitted 1960-61). (4 q. hrs.)
Fundamentals of individual and team play; team management; conduct of clinics and tournaments; care of courts and equipment; as applied to varsity and recreational tennis.
360. COACHING OF WRESTLING. (Omitted 1961-62). (4 q. hrs.)
The theory and application of wrestling maneuvers. The rules; strategy; conditioning; and training.
451. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION.
Winter. (4 q. hrs.)
The historical background of physical education; relationship of physical education to general education; physiological, psychological and sociological principles related to physical education.
452. PHYSICAL EDUCATION ADMINISTRATION AND SUPERVISION.
Spring. (4 q. hrs.)
Responsibilities of an administrator in program planning; construction of facilities; purchase and maintenance of equipment; upkeep of gymnasiums and play-fields; interschool and intramural athletics.
454. FOOTBALL OFFICIATING. Fall. (2 q. hrs.)
Study of rules and fundamentals of officiating. Relation of the

official of the Illinois High School Athletic Association, coaches, and team members.

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.

Winter. (4 q. hrs.)

Athletic injury statistics; primary causes of injuries; analysis of preventive measures; care of injuries in relation to type of tissue involved; taping, padding, and bracing new and recurrent injuries.

Open to juniors, seniors, and graduates.

470. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL ATHLETICS. Winter. (4 q. hrs.)

The educational philosophy of intramurals; function of administrative personnel; units of participation; scheduling; conduct of intramural programs; records; point systems; and awards.

Open to juniors, seniors, and graduates. Open to both men and women.

475. ADMINISTRATION OF INTERSCHOOL ATHLETICS.

(Omitted 1961-62). (4 q. hrs.)

Organization and control of interschool athletics at the national, state, and local levels. Staff; programs; budget; health and safety; facilities.

Open to juniors, seniors, and graduates.

495. COURSE OF STUDY DEVELOPMENT IN PHYSICAL EDUCATION.

Spring. (4 q. hrs.)

Principles and methods; different psychological and educational points of view; organizing a course of study; making units of instruction.

Open to juniors, seniors, and graduates. Open to both men and women.

500. INTRODUCTION TO GRADUATE STUDY IN PHYSICAL EDUCATION.

Fall. (4 q. hrs.)

A critical review of selected studies in the literature of physical education. Evaluation of the literature; study of problems confronting the profession; techniques employed in the historical, philosophical, survey, and experimental methods of research.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean. Open to both men and women.

528. THE ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. Spring. (4 q. hrs.)

Recent trends in organizing and administering of recreation on

federal, state, and local levels. Legislative provisions; governmental control; financing; personnel; departmental organization, and administrative procedures.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean. Open to both men and women.

530. ADVANCED ADMINISTRATION OF PHYSICAL EDUCATION IN SCHOOLS. Winter. (4 q. hrs.)

Problems emerging from the administration of physical education programs in the schools, including 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. Open to both men and women.

595. THESIS. (4 q. hrs.)

PHYSICAL EDUCATION FOR WOMEN

During the first two years of residence it is required that all students attend physical education classes regularly two hours each week unless this requirement is modified by the University Physician. It is the responsibility of the student, not her adviser, to see that this requirement is observed, and to select her own courses, and sections of these courses, for its fulfillment. Credit of one quarter hour toward the satisfying of the graduation requirement in physical education is given for each quarter's work successfully passed. Upperclassmen are encouraged to elect courses that interest them.

Regulation costumes should not be purchased until notified by the instructor.

Service Courses

During freshman orientation each new student is given a general motor ability test. Those who pass the test may begin electing activities according to their interests with the following limitations. Before completing the six 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 or basic physical education

No course shall be repeated for credit without permission of the head of the Physical Education Department. If a student makes a

low score on the general motor ability test she takes Physical Education 170 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.

172. BASKETBALL (Beginning). Winter. (1 q. hr.)

173. HOCKEY. Fall. (1 q. hr.)

174. SOCCER. Fall. (1 q. hr.)

175. SOFTBALL (Beginning). Spring. (1 q. hr.)

176. SPEEDBALL. Fall. (1 q. hr.)

177. VOLLEYBALL (Beginning). Winter and Spring. (1 q. hr.)

180. ARCHERY. Fall and Spring. (1 q. hr.)

181. BADMINTON (Beginning). Every quarter. (1 q. hr.)

182. BOWLING. Winter and Spring. (1 q. hr.)

183. GOLF (Beginning). Fall and Spring. (1 q. hr.)

184. RECREATIONAL GAMES. Winter and Spring. (1 q. hr.)

185. STUNTS. Fall. (1 q. hr.)

186. SWIMMING (Beginning). Every quarter. (1 q. hr.)

187. TENNIS (Beginning). Fall and Spring. (1 q. hr.)

190. FOLK AND SQUARE DANCING. Every quarter. (1 q. hr.)
Open to both men and women.

191. MODERN DANCE (Beginning). Every quarter. (1 q. hr.)
Open to both men and women.

192. SOCIAL DANCE. Every quarter. (1 q. hr.)
Open to both men and women.

194. TRACK AND FIELD. Spring. (1 q. hr.)

For physical education majors and minors only, or permission of the instructor.

196. OFFICIATING. Fall. (1 q. hr.)
For physical education majors and minors only.
197. OFFICIATING. Winter. (1 q. hr.)
For physical education majors and minors only.
198. OFFICIATING. (Omitted 1961-62). (1 q. hr.)
For physical education majors and minors only.
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.
272. BASKETBALL (Intermediate). Winter. (1 q. hr.)
Prerequisite: Physical Education 172 or permission of the instructor.
273. HOCKEY (Intermediate). (1 q. hr.)
Prerequisite: Physical Education 173 or permission of the instructor.
275. SOFTBALL (Intermediate). Spring. (1 q. hr.)
Prerequisite: Physical Education 175 or permission of the instructor.
277. VOLLEYBALL (Intermediate). Winter and Spring. (1 q. hr.)
Prerequisite: Physical Education 177 or permission of the instructor.
281. BADMINTON (Intermediate). Winter and Spring. (1 q. hr.)
Prerequisite: Physical Education 181 or permission of the instructor.
283. GOLF (Intermediate). Spring. (1 q. hr.)
Prerequisite: Physical Education 183 or permission of the instructor.
286. SWIMMING (Intermediate). Fall and Spring. (1 q. hr.)
Prerequisite: Physical Education 186 or permission of the instructor.
287. TENNIS (Intermediate). Fall and Spring. (1 q. hr.)
Prerequisite: Physical Education 187 or permission of the instructor.
291. MODERN DANCE (Intermediate). Every quarter. (1 q. hr.)
Prerequisite: Physical Education 191 or permission of the instructor.

315. OUTDOOR ACTIVE GAMES FOR ELEMENTARY GRADES.

Fall. (1 q. hr.)

Open to both men and women. Does not count for required physical education. Required for elementary majors.

316. RHYTHMS FOR ELEMENTARY GRADES. Winter. (1 q. hr.)

Open to both men and women. Does not count for required physical education. Required for elementary majors.

317. INDOOR RECREATIONAL GAMES FOR ELEMENTARY GRADES.

Spring. (1 q. hr.)

Open to both men and women. Does not count for required physical education. Required for elementary majors.

372. BASKETBALL (Advanced). (1 q. hr.)

Prerequisite: Physical Education 272 or permission of the instructor.

383. GOLF (Advanced). (1 q. hr.)

Prerequisite: Physical Education 283 or permission of the instructor.

386. SWIMMING (Advanced). Spring. (1 q. hr.)

387. TENNIS (Advanced). (1 q. hr.)

Prerequisite: Physical Education 287 or permission of the instructor.

391. MODERN DANCE (Composition). Spring. (1 q. hr.)

This course acquaints the students with the elements of dance, its theatre, and its application, resulting in individual and group compositions.

Prerequisite: Physical Education 291, or permission of instructor. Open to both men and women.

392. RHYTHM ANALYSIS. (1 q. hr.)

An analysis of, and practice in, the rhythm factors in movement with special emphasis on the basic dance steps and skills of the folk, square, and social dance forms.

For physical education majors and minors only, or permission of the instructor. Prerequisite: P.E. 391.

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 are offered for students whose physical condition will not permit any activity.

Professional Courses

130. PLAYS, GAMES AND ACTIVITIES OF LOW ORGANIZATION. (4 q. hrs.)
Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.
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 the physical education activities in particular.
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.
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 PLAYGROUNDS. 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.
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.
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.

Open to both men and women. Prerequisite: Zoology 225 and Physical Education 244.

244. KINESIOLOGY. Fall and Winter. (4 q. hrs.)

See Physical Education (Men).

Prerequisite: Zoology 225.

252 (352). ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL CHILD. Spring and 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.

Open to both men and women. Prerequisite: Physical Education 130 or permission of instructor.

300. ADVANCED AND INSTRUCTOR'S FIRST AID. Spring. (4 q. hrs.)

This course includes the knowledge and skills which the American Red Cross organizes into an Advanced First Aid course. The Instructor's course deals with methods and materials of teaching First Aid. Upon successful conclusion of these courses students are given the American Red Cross certificates.

Open to both men and women. Prerequisite: Physical Education 131 or Elementary Red Cross certificate.

336 (236). PROBLEMS IN DEVELOPING PROGRAMS IN MODERN AND FOLK DANCE. Winter. (4 q. hrs.)

Principles underlying the modern dance art form as they contribute to physical education. Conditioning factors involved. Materials for course planning and accompaniment.

Guidance in choosing and teaching folk dance material suitable for High School. Special emphasis on their dance structure, ethnic roots, authenticity of accompaniment.

Open to both men and women.

345. PHYSICAL EDUCATION ACTIVITIES FOR THE ELEMENTARY SCHOOL. (Omitted 1961-62). (4 q. hrs.)

Guidance in analyzing the students' own school situations. Methods and materials for planning the physical education program.

346. COURSE PLANNING AND ORGANIZATION OF SQUARE AND SOCIAL DANCE. Fall. (4 q. hrs.)

Graded materials and methods for junior and senior high schools; analysis of both written and recorded music suitable for the various levels of difficulty; theory basic to course planning; survey of the literature available; analysis of the skills involved.

Open to both men and women.

351. CAMPING. (Omitted 1961-62). (4 q. hrs.)

See Physical Education (Men).

353. TECHNIQUE OF INDIVIDUAL SPORTS—ARCHERY, BADMINTON, TENNIS, AND STUNTS. Spring and 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.

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.

355. FIELD WORK IN RECREATION. (Omitted 1961-62). (4 q. hrs.)

Students are assigned to a public or private agency in the community for the purpose of organizing and conducting specific activities or groups under supervision.

Open to both men and women.

356. OUTING CRAFTS. (4 q. hrs.)

To familiarize the student with approved techniques for outdoor living and recreation and to assist him in developing sufficient skill in the various areas so that he becomes self-reliant in an out-of-door environment. The cost of materials used in the practical projects is borne by the student.

Open to both men and women.

450. EVALUATION OF PHYSICAL EDUCATION ACTIVITIES.

Fall and Winter. (4 q. hrs.)

Selection and administration of physical measurements and tests commonly used in physical education.

Open to juniors, seniors, and graduates. Open to both men and women.

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.

Open to juniors, seniors, and graduates.

456. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Spring. (4 q. hrs.)

Designed to develop effective procedures in organization and

administration of a program of physical education. 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.

Prerequisite: Physical Education 451. Open to juniors, seniors, and graduates.

457. ANALYSIS OF HUMAN MOTION. (Omitted 1961-62). (4 q. hrs.)

Study of mechanical principles as they relate to body movement, and of body structure and function as they relate to human motion. Includes specific analysis of technique involved in the execution of sports, skills and of basic body movement.

Prerequisite: Physical Education 244. Open to juniors, seniors, and graduates. Open to both men and women.

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.

459. CURRENT TRENDS IN THE TEACHING OF PHYSICAL EDUCATION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL.

Winter. (4 q. hrs.)

Materials, organization and program of physical education in the elementary and junior high school. Integration of physical education with general education.

Prerequisite: Physical Education 352 or equivalent. Open to juniors, seniors, and graduates. Open to both men and women.

495. COURSE OF STUDY DEVELOPMENT IN PHYSICAL EDUCATION.

Spring. (4 q. hrs.)

See Physical Education (Men).

500. INTRODUCTION TO GRADUATE STUDY IN PHYSICAL EDUCATION.

Fall. (4 q. hrs.)

See Physical Education (Men).

510. SUPERVISION OF PHYSICAL EDUCATION. (Omitted 1961-62).

(4 q. hrs.)

Techniques of supervision of physical education in the elementary and secondary school; in-service training of classroom and physical education teachers; the relationships with teachers, administrators and the community.

Primarily for graduates. May be taken by seniors with the permission of the instructor and the Dean. Open to both men and women.

512. APPLICATION OF PSYCHOLOGY TO PHYSICAL EDUCATION.

A study of psychological principles, laws of learning, and their application to physical education.

Primarily for graduates. May be taken by seniors with the permission of the instructor and the Dean. Open to both men and women.

513. PLANNING THE RECREATION PROGRAM. Fall. (4 q. hrs.)

Exploration of the philosophical viewpoints underlying a recreational program; criteria for evaluating the recreation potential of a community; formulation of plans for meeting various recreational needs.

Primarily for graduates. May be taken by seniors with the permission of the instructor and the Dean. Open to both men and women.

528. THE ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. Spring. (4 q. hrs.)

See Physical Education (Men).

560. ADVANCED THEORY AND ANALYSIS OF TEAM SPORTS.

(4 q. hrs.)

Study of the techniques, organization, and team strategy of selected team sports as they relate to the learner and the Physical Education Program.

Prerequisite: Understanding and/or experience in the sports included. Open only to graduates.

561. ADVANCED THEORY AND ANALYSIS OF INDIVIDUAL SPORTS.

(4 q. hrs.)

Study of the techniques, organization and game strategy selected in individual sports as they relate to the learner in the Physical Education Program.

Prerequisite: Proficiency in the areas studied. Open only to graduates.

562. PROBLEMS IN THE ADMINISTRATION OF GIRLS PHYSICAL EDUCATION. Fall. (4 q. hrs.)

Provides an opportunity for teachers and administrators to review the current ideas and best practices in the field of physical education. Problems in the administrative field will be studied according to the needs of the members of the class to make the course practical.

Open only to graduates.

563. PHILOSOPHY OF PHYSICAL EDUCATION.

Spring. (4 q. hrs.)

Study of principles of physical education with application to

current problems in the field. Construction of a philosophy of physical education.

Open only to graduates. Open to both men and women.

595. THESIS. (4 q. hrs.)

PHOTOGRAPHY

(See Chemistry 300)

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.

Physical Science 100 and 101 may be taken in either order or both may be taken simultaneously.

101. PHYSICAL SCIENCE. Fall and Winter. (4 q. hrs.)

Principles of chemistry having particular application in the field of elementary education are presented.

102. PHYSICAL SCIENCE. Spring. (4 q. hrs.)

A continuation of 100 and 101. A study of electricity, atomic structure, radioactivity, isotopes, and the chemistry of foods.

Prerequisite: Physical Science 100, 101.

These courses are restricted to students in the curriculum in elementary education.

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. PHYSICS FOR MUSIC STUDENTS. (Omitted 1961-62).

(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. Enrollment limited to music majors or minors.

130, 131, 132. FIRST YEAR COLLEGE PHYSICS. Fall, Winter, Spring.

(4 q. hrs. for each course)

Physics 130, mechanics; 131, heat, sound, and light; 132, electricity, magnetism, and modern physics.

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.

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.

239 (335). MECHANICS. Winter. (4 q. hrs.)

Vectors; particle dynamics including energy and momentum 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; catenary; vector operators; general motion of a rigid body; central field motion, generalized coordinates.

Prerequisite: Physics 239. Four hours a week.

250. ELECTRONICS. Spring. (4 q. hrs.)

An introductory course in the study of the fundamentals of vacuum tubes and electronic circuits. Emphasis is on the fundamental behavior of vacuum tubes, amplifiers, and special circuits used in applied science, such as cathode followers, multivibrators, and scaling circuits. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 235.

340. METHODS OF TEACHING PHYSICS. Winter. (4 q. hrs.)

Designed for chemistry and physics majors who are preparing for secondary school teaching in the physical science areas. The students visit typical schools and meet cooperating teachers in their classrooms. Current professional literature, texts, studies of the newer techniques and the history of science and science teaching are required reading. Time is given to the preparation of lesson plans, the presentation of demonstrations, the improvisation of equipment, the making of requisitions and the performing of other typical teaching tasks.

Prerequisite: Admission to teacher education.

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.

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. Four laboratory periods a week.

Prerequisite: First year college physics, Mathematics 235. Open to juniors, seniors, and graduates.

461, 462. EXPERIMENTAL PHYSICS. Fall and Winter.

(4 q. hrs. for each course.)

A laboratory course consisting of experiments from various phases of physics. Emphasis is placed upon selection of the experiment, planning the procedure, analyzing the results, and reporting of the results. Considerable initiative on the part of the student is desired and encouraged. Four laboratory periods a week.

Prerequisite: First year college physics and Mathematics 235, 236.

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 and statistical mechanics.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week. Open to juniors, seniors, and graduates.

466. ATOMIC PHYSICS. Spring. (4 q. hrs.)

Nature and properties of electrons, protons, atoms, and molecules; special theory of relativity; properties of free electrons; interactions of protons with matter; atomic structure; atomic spectra; an introduction to the ideas of quantum mechanics.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

467. INTRODUCTION TO QUANTUM MECHANICS. Fall. (4 q. hrs.)

Limitations of classical mechanics; Schroedinger equation; uncertainty principle; exclusion principle; periodic table; perturbation theory; hydrogen atom; electron spin.

Prerequisite: First year college physics and Mathematics 235, 236. Four hours a week.

468. NUCLEAR PHYSICS. Winter. (4 q. hrs.)

Fundamental nuclear particles; nuclear forces and interactions; mass-energy equivalence; fission; fusion; radioactivity; theoretical

nuclear models; nuclear detectors; nuclear accelerators; cosmic rays.
Prerequisite: Physics 466 or 467 or permission of instructor.
Four hours a week.

469. SOLID STATE PHYSICS. Spring. (4 q. hrs.)

Crystal structure; thermal properties of solids; dielectric and magnetic properties of solids; superconductivity; free electron theory of metals; band theory of metals; semiconductors and insulators; surface phenomena; imperfections in crystals.

Prerequisite: Physics 466 or 467 or permission of instructor.
Four hours a week.

480, 481, 482. SPECIAL PHYSICS PROBLEMS. Offered on demand.
 (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. Open to juniors, seniors, and graduates.

534. THEORETICAL MECHANICS. (Omitted 1961-62). (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 1961-62). (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.

580. CURRENT LITERATURE IN PHYSICS. On demand. (4 q. hrs.)

Reading, conference, oral reports.

Prerequisite: Two year's work in physics. Open only to graduates.

595. THESIS. (4 q. hrs.)

PHYSIOLOGY

(Taught in Department of Zoology)

345. PHYSIOLOGY. Fall, Winter, Spring and Summer. (4 q. hrs.)

A study of the basic physiological principles is followed by ex-

perimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: Zoology 120.

346. **PHYSIOLOGY.** (Omitted 1961-62). (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, 465, 466, 467, 468)

PSYCHOLOGY

(See Education and Psychology)

SOCIAL SCIENCE

146. **A SURVEY OF WORLD CIVILIZATION TO 1500 A.D.**

Every quarter. (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.

147. **A SURVEY OF WORLD CIVILIZATION, 1500 TO 1815.**

Every quarter. (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.

148. **A SURVEY OF WORLD CIVILIZATION, 1815 TO THE PRESENT.**

Every quarter. (4 q. hrs.)

Origins of World War I; Communism, Fascism, Nazism; World War II; the challenges of the present day.

233. **HISTORY OF THE UNITED STATES TO 1840.**

Every quarter. (4 q. hrs.)

The colonial period; the independence movement; the framing and adoption of the Constitution; the growth of American nationality; Western development and Jacksonian democracy.

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.

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.

254. ELEMENTS OF ECONOMICS. Every quarter. (4 q. hrs.)

The nature of economics; production; the market economy; national income; money and banking.

Freshmen may not take this course.

255. ELEMENTS OF ECONOMICS. Every quarter. (4 q. hrs.)

Employment theory and business cycles; price analysis; competition, monopoly, monopolistic competition; public utilities; factoral distribution.

Prerequisite: Social Science 254.

256. ELEMENTS OF ECONOMICS. Every quarter. (4 q. hrs.)

Social insurance and the problem of inequality; international economics; government finance; the problems of economic stabilization and growth.

Prerequisite: Social Science 254.

261. ELEMENTS OF DEMOCRATIC GOVERNMENT. Winter and Spring. (4 q. hrs.)

The forms of democratic government: the United States, Great Britain, Canada, France, Latin America; comparison of democratic government and totalitarian governments; forces which strengthen and forces which weaken democratic government.

262. STATE AND LOCAL GOVERNMENT. Winter. (4 q. hrs.)

The American state and its political subdivisions; county, township, and municipal government, with emphasis on the state of Illinois.

265. THE NATIONAL GOVERNMENT. Fall and Spring. (4 q. hrs.)

The American Constitution; Congress; the presidency; the judiciary; the system of boards and commissions.

271. PRINCIPLES OF SOCIOLOGY. Every quarter. (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.

272. SOCIAL PROBLEMS AND SOCIAL TRENDS. Spring. (4 q. hrs.)
The nature of social problems; the problem of adjustment to external nature; population problems; problems 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.
273. SOCIAL STRATIFICATION. Fall. (4 q. hrs.)
Social class as a historical concept; criteria of status; social class in America; vertical mobility; organized effects to maintain rigid class lines.
340. METHODS AND MATERIALS IN THE SOCIAL STUDIES IN THE SECONDARY SCHOOL. Fall and Spring. (4 q. hrs.)
Aims and objectives of social studies teaching; nature and scope of social studies materials; methods employed in teaching the social studies. Analysis, evaluation, and application of methods. Techniques for appraising and selecting textbooks and other teaching aids.
Prerequisite: Admission to teacher education.
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.
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.
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.
370. HISTORY OF ILLINOIS. Winter. (2 q. hrs.)
The Indian culture; the French regime; the British period; the old Northwest; the frontier state; the Civil War; the industrial state; the twentieth century.
453. COMPARATIVE ECONOMIC SYSTEMS. Fall. (4 q. hrs.)
A comparative study of the origin, organization, operation, and

achievements of the economic systems of capitalism, socialism, communism, and fascism.

Open to juniors, seniors, and graduates.

454. HISTORY OF ECONOMIC THOUGHT. Winter. (4 q. hrs.)

The ancient world; scholasticism; mercantilism; the physiocrats; Adam Smith and classical economics; Marks; Veblen; Keynes.

Prerequisite: Social Science 254. Open to juniors, seniors, and graduates.

456. GOVERNMENT AND BUSINESS. Spring. (4 q. hrs.)

The market structures in which business operates; public policies for regulation and control of those markets.

Open to juniors, seniors, and graduates.

457. LABOR ECONOMICS. Spring. (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.

Open to juniors, seniors, and graduates.

458. MONEY AND BANKING. Fall. (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.

Open to juniors, seniors, and graduates.

459. PUBLIC FINANCE. Winter. (4 q. hrs.)

An intensive study of taxation, public spending, public debt, and their importance to the general welfare.

Open to juniors, seniors, and graduates.

464. LOCAL GOVERNMENT. (4 q. hrs.)

The structure and functions of the political subdivisions of the state: the city, the county, the township and other local units.

Open to juniors, seniors, and graduates.

465. PUBLIC ADMINISTRATION. Fall. (4 q. hrs.)

The organization and administrative relationships among Federal, State and local governments; fiscal management; personnel management; controls over administration.

Prerequisite: Social Science 261, 263, or 265 or consent of instructor. Open to juniors, seniors, and graduates.

466. POLITICAL PARTIES AND POLICIES. Winter. (4 q. hrs.)

The development, organization, functions, and significance of the political parties in the United States.

Open to juniors, seniors, and graduates.

467. FOREIGN RELATIONS OF THE UNITED STATES.

Spring. (4 q. hrs.)

The United States in the world community; the conduct of diplomatic relations; the machinery and spirit of international co-operation.

Open to juniors, seniors, and graduates.

468. INTERNATIONAL ORGANIZATION. (4 q. hrs.)

Past and present systems of international organization; regional arrangements; administrative organizations.

Open to juniors, seniors, and graduates.

469. CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1800.

Fall. (4 q. hrs.)

The English constitutional background; the colonial government; the Declaration of Independence; the Articles of Confederation; the early state constitutions; the making of the Constitution; the early administrations.

Prerequisite: Social Science 233, 234, 235 or consent of instructor. Open to juniors, seniors, and graduates.

470. CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1800.

Winter. (4 q. hrs.)

The Marshall decisions; nullification and secession controversy; the reconstruction era; the Court and big business; the New Deal and the Court; the modern attitudes toward civil liberties.

Prerequisite: Social Science 233, 234, 235 or consent of instructor. Open to juniors, seniors, and graduates.

471. CIVIL WAR AND RECONSTRUCTION. (4 q. hrs.)

The causes of the Civil War; political, economic, and social problems during the War; the military phases of the War; post-war problems both North and South; the Civil War as a revolution.

Prerequisite: Social Science 234 or consent of instructor. Open to juniors, seniors, and graduates.

472. SOCIAL STRATIFICATION. Winter. (4 q. hrs.)

The problems of status, power, differential behavior; social mobility created by class differences in American society.

Open to juniors, seniors, and graduates.

473. MARRIAGE AND THE FAMILY. Every quarter. (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.

Open to juniors, seniors, and graduates.

474. THE SOCIAL PROBLEMS OF MINORITY GROUPS.

Spring. (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.

Open to juniors, seniors, and graduates.

475. CRIME AND JUVENILE DELINQUENCY. Fall. (4 q. hrs.)

The problems of crime and delinquency; community and school programs for preventing delinquency and crime. Local community resources and how to bring out the realities of the problems. Of value to the social studies teacher and the school administrator.

Open to juniors, seniors, and graduates.

476. THE AMERICAN COLONIES. Fall. (4 q. hrs.)

Colonization of the area now included in the United States; the political, economic, and social development of the American colonies to 1763.

Prerequisite: Social Science 233. Open to juniors, seniors, and graduates.

477. THE AMERICAN REVOLUTION AND CONFEDERATION.

Winter. (4 q. hrs.)

The background and causes of the American Revolution; political and social results of the revolution; problems of the Critical Period; formation of the Constitution.

Prerequisite: Social Science 233. Open to juniors, seniors, and graduates.

478. CZARIST RUSSIA. Winter. (4 q. hrs.)

The rise of Muscovy. Peter the Great and Katherine the Great; the Napoleonic era; reaction and reform in the nineteenth century; Russia in the first World War.

Open to juniors, seniors, and graduates.

479. SOVIET RUSSIA. Spring. (4 q. hrs.)

The organization of the Communist Party, the Revolution of 1917; Lenin and Stalin; Russia and World War II.

Open to juniors, seniors, and graduates.

481. LATIN-AMERICAN HISTORY TO 1830. (Omitted 1961-62).

(4 q. hrs.)

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.

Open to juniors, seniors, and graduates.

482. LATIN-AMERICAN HISTORY SINCE 1830.

(Omitted 1961-62). (4 q. hrs.)

Political, economic, and cultural development; relationships between the Latin-American republics and the United States. The Monroe Doctrine; the Pan-American Union; the "Good Neighbor" policy; the origination of the American states.

Open to juniors, seniors, and graduates.

483. HISTORY OF CANADA. (Omitted 1961-62). (4 q. hrs.)

The French regime; the British conquest of French Canada; the change to Dominion status; relationships between Canada and the United States.

Open to juniors, seniors, and graduates.

484. HISTORY OF EUROPE. 1500-1648. (4 q. hrs.)

Renaissance and Reformation; the rise of modern capitalism and modern states; the Age of Charles V; the Age of Elizabeth I; the Puritan Revolution; the Thirty Years' War.

Prerequisite: Social Science 147 or its equivalent. Open to juniors, seniors, and graduates.

485. EUROPE IN THE EIGHTEENTH CENTURY. (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.

Open to juniors, seniors, and graduates.

486. THE WORLD IN THE TWENTIETH CENTURY. Fall. (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.

Open to juniors, seniors, and graduates.

487. HISTORY OF THE OLD NORTHWEST. (4 q. hrs.)

History of the region northwest of the Ohio River, embracing the present states of Ohio, Indiana, Illinois, Michigan, and Wisconsin. The settlement of the area and its growth to the period of statehood.

Open to juniors, seniors, and graduates.

488. DEVELOPMENT OF THE AMERICAN FAR WEST.

(4 q. hrs.)

The Spanish influences and institutions of the Southwest before and after its acquisition by the United States; international rivalries over the territories of Louisiana and Oregon; the fur trade, spread of the mining frontier, range cattle industry, overland migrations, agricultural growth, political trends, and conservation.

Open to juniors, seniors, and graduates.

489. THE FRENCH REVOLUTION. Winter. (4 q. hrs.)
The Old Regime; Estates-General and National Assembly; Republic, Consulate, and Empire; the Napoleonic System; Waterloo.
Open to juniors, seniors, and graduates.

490. EUROPE IN THE 19TH CENTURY. Spring. (4 q. hrs.)
Congress of Vienna; Reaction and Revolution; the Industrial Revolution; the Second Empire; unification of Italy and Germany; Parliamentary reform in Great Britain; Triple Alliance and Triple Entente.
Open to juniors, seniors, and graduates.

491. THE STUDY AND TEACHING OF LOCAL HISTORY.
(Omitted 1961-62). (4 q. hrs.)
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.
Prerequisite: Social Science 233, 234, 235, or experience in teaching United States History in the junior high school or senior high school. Open to juniors, seniors, and graduates.

492. EXPANSION AND DISUNION, 1820 TO 1861.
(Omitted 1961-62). (4 q. hrs.)
Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.
Prerequisite: Social Science 233, 234. Open to juniors, seniors, and graduates.

493. THE LITERATURE OF THE HISTORY OF WESTERN CIVILIZATION.
(Omitted 1961-62). (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. Open to juniors, seniors, and graduates.

494. THE LITERATURE OF AMERICAN HISTORY.
(Omitted 1961-62). (4 q. hrs.)
A lecture and reading course designed to give the advanced student new understanding 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.
Open to juniors, seniors, and graduates.

495. SOCIAL AND INTERNATIONAL HISTORY OF THE UNITED STATES IN THE COLONIAL PERIOD. (4 q. hrs.)
The transfer of culture from Europe to the English Colonies.

The development of traits and ideas that are characteristic of the United States. The development of religious, scientific, educational, and political theories that influence the United States.

Prerequisite: Social Science 233. Open to juniors, seniors, and graduates.

496. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES IN THE 19TH CENTURY. Winter. (4 q. hrs.)

The development of ideas and way of life in the United States in the 19th Century.

Prerequisite: Social Science 233 and 234. Open to juniors, seniors, and graduates.

497. HISTORY OF THE ANCIENT NEAR EAST.

Fall. (4 q. hrs.)

Ancient Egypt, Babylonia, and Persia; special emphasis on Hebrew history. Designed to serve as historical background for a better understanding of the Old Testament.

Open to juniors, seniors, and graduates.

498. THE ROMAN EMPIRE. Fall and Spring. (4 q. hrs.)

An analysis of the Roman Empire at its height, with particular emphasis on those conditions which provide an adequate background for a study of the New Testament and the beginnings of the Christian religion.

Open to juniors, seniors, and graduates.

550. ABRAHAM LINCOLN. (Omitted 1961-62). (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 233 or its equivalent. Open only to graduates. May be offered toward the Group III requirements in the Master's Degree program.

552. CULTURAL ANTHROPOLOGY. (Omitted 1961-62). (4 q. hrs.)

An introduction to the scientific study of man and his culture. By use of the comparative method, an analysis will be undertaken of the kinship, religious, legal, political, economic, technological, literary, and artistic manifestations of primitive and complex societies.

Open only to graduates. May be offered toward the Group III requirements in the Master's Degree program.

595. THESIS. (4 q. hrs.)

SOCIOLOGY

(See Social Science 271, 272, 273, 472, 473, 474, 475, 552)

SPEECH

- 131 (345). **SPEAKING IN PUBLIC.** Every quarter. (4 q. hrs.)
Fundamental principles and methods of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view for constructive influence in speech situations.
132. **VOICE AND PHONETICS.** Every quarter. (4 q. hrs.)
A study of voice production and the articulation of sounds; the phonetic alphabet; ear training, and practice in phonetic transcription.
133. **BEGINNING ORAL INTERPRETATION.** Winter and Spring.
(4 q. hrs.)
Designed to increase vocal skills through reading poetry and prose aloud. Emphasis on heightening enjoyment of literature and preparing the student for advanced work.
Prerequisite: Speech 132.
230. **SPEECH COMPOSITION.** Fall. (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.
232. **DISCUSSION.** Winter. (4 q. hrs.)
A study of the nature of discussion; the bases of belief; subject-problems; techniques of preparation; the discussion process; leadership techniques; principles of participation; types and forms of discussion; and evaluating discussion. The application of these principles and techniques in classroom discussions.
244. **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.
254. **STRUCTURAL AND FUNCTIONAL BASES OF SPEECH.** Fall.
(4 q. hrs.)
This course covers the organization and functioning of the speech and hearing mechanisms and the fundamental acoustics of voice pitch, quality, loudness, and the speech sounds.
257. **TECHNICAL DIRECTION.** Spring. (4 q. hrs.)
Consideration of the elements of technical theatre direction; construction and painting of scenery and properties; make-up; theory and technique of stage lighting; stage management; and costuming. Special emphasis on the problems of the educational theatre in the secondary schools. Student participation in the execution of technical aspects of major Player's productions.

260 (433). SPEECH PATHOLOGY. Fall and Summer 1961-62.
(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.

281. SUMMER THEATRE. Summer. (4-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in dramatic art. The range of supervised learning experiences extends from acting, costuming, and scenery construction to compiling prompt books, conducting rehearsals, and business management of the theatre. Credit for 4, 8, or 12 quarter hours may be earned in one summer. Students enrolling for 4 hrs. will work only in technical production. A student may repeat the courses as many times as desired, but the credit which may be applied to a bachelor's degree is limited to 12 quarter hours. Eight hours may be applied to a master's degree.

332. DEBATE. Fall. (4 q. hrs.)

A study of the role of debate in a democratic society; the responsibilities of the advocate; the proposition—types, characteristics, and phrasing; investigation and analysis; the structure of argument; evidence; reasoning; fallacies, refutation and rebuttal; and debate judging. The application of these principles and techniques in practice debates.

Prerequisite: Speech 131, 230.

333. ADVANCED ORAL INTERPRETATION. Winter. (4 q. hrs.)

Study and practice of the techniques of oral interpretation for public performances. Emphasis on analysis of materials, program building and criticism. Consideration of utilizing oral reading techniques in the teaching of literature and speech at the secondary level.

Prerequisite: Speech 133 or permission of the instructor.

340. TEACHING SPEECH. Spring and Summer. (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.

Prerequisite: Twenty quarter hours in speech. Admission to teacher education.

345. PUBLIC SPEAKING. See Speech 131.

352. RADIO PRODUCTION DIRECTING. Spring. (4 q. hrs.)

Problems of casting, selecting sound effects and music, interpretations of script, placing of microphones, timing and engineering of show, and making of transcriptions. Students direct productions.

357. SCENE DESIGN. Winter. (4 q. hrs.)

Step by step consideration of the design sequence from analysis of the script to the completion of production drawings; weekly design projects; familiarization with the forms and styles of scenery; practical experience through participation in the execution of technical aspects of major Players' productions.

Prerequisite: Speech 257, or permission of instructor.

431. CHILDREN'S DRAMATICS. Fall and Summer. (4 q. hrs.)

Dramatics as educational devices for children. The advantages of dramatizing literature, history, and other subjects. Choice of plays is presented.

445. DIRECTING. Winter. (4 q. hrs.)

The study and actual production of the play. Central emphasis is placed on directing.

451. INTRODUCTION TO CLINICAL PRACTICE IN SPEECH CORRECTION. Winter. (4 q. hrs.). (Winter only 1961-62)

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 260. Open to juniors, seniors, and graduates.

452. VOICE AND ARTICULATION DISORDERS. Winter. (4 q. hrs.)

Emphasis on cause and treatment of voice and articulation disorders. Students are given supervised clinical training with these cases.

Prerequisite: Speech 260, 451. Open to juniors, seniors, and graduates.

453. STUTTERING. Spring. (4 q. hrs.)

Prominent theories of causes of stuttering are surveyed. Corrective techniques are studied and evaluated. Observation and clinical practice are provided.

Prerequisite: Speech 260, 451. Open to juniors, seniors, and graduates.

455. AUDIOMETRY AND HEARING AIDS. Fall. (4 q. hrs.)

Training is given in both pure tone and speech audiometry.

Techniques for hearing aid selection are presented. The students conduct hearing surveys and do individual hearing tests. The hearing mechanism is studied in detail.

Prerequisite: Speech 260, 451, 452. Open to juniors, seniors, and graduates.

456. 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 260, 451, 455. Open to juniors, seniors, and graduates.

457. ADVANCED CLINICAL PRACTICE. Every quarter. (1-4 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.

A student may receive credit for one to four hours during any quarter provided he spends in clinic work thirty clock hours per quarter hour's credit.

Prerequisite: Speech 260, 451. Open to juniors, seniors, and graduates.

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 260, 451, 452. Open to juniors, seniors, and graduates.

459. SPEECH CORRECTION PRACTICE IN THE SCHOOL SITUATION.

Fall and Spring. (4 q. hrs.)

Students are assigned speech correction work in a school situation. Practice is done in the campus elementary school or in nearby public schools. Weekly conferences with local supervisor and college supervisor required.

Prerequisite: Speech 260, 451, 452, 455, 456. Open to juniors, seniors, and graduates.

470. PSYCHOLOGY OF SPEECH. Summer. (4 q. hrs.)

A study of the psychological principles involved in the art and act of speaking with emphasis on attention, motivation, suggestion, identification, emotion, and rationalization.

Open to juniors, seniors, and graduates.

471. HISTORY OF PUBLIC ADDRESS. Winter. (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.

Open to juniors, seniors, and graduates.

473. THEATRE HISTORY. Spring. (4 q. hrs.)

History of theatre from its early beginnings to the present day. Theatre as ritual and as an influence in civilization.

Open to juniors, seniors, and graduates.

481. SUMMER THEATRE. Summer. (4-12 q. hrs.)

These courses are designed to give practical, comprehensive experience in dramatic art. The range of supervised learning experiences extends from acting, costuming, and scenery construction to compiling prompt books, conducting rehearsals, and business management of the theatre. Credit for 4, 8, or 12 quarter hours may be earned in one summer. Students enrolling for 4 hrs. will work only in technical production. A student may repeat the courses as many times as desired, but the credit which may be applied to a bachelor's degree is limited to 12 q. hrs. Eight hours may be applied to a master's degree.

560. DELIBERATION OF HUMAN PROBLEMS. (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.

562. SEMINAR IN RHETORIC. (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.

563. HISTORY OF DRAMATIC ART. Summer. (4 q. hrs.)

Consideration of the staging of plays from the Greek theatre to the present, with emphasis on adaptation of techniques to school play production. Projects in planning productions under various conditions.

Open only to graduates.

595. THESIS. (4 q. hrs.)

SPEECH CORRECTION

(See Speech 254, 260, 451, 452, 453, 455, 456, 457, 458, 459)

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 laboratory science.

A sequence of courses is planned to give 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 content is designed to give special requirements as service to other fields.

120. GENERAL ZOOLOGY. Every quarter. (4 q. hrs.)

A consideration of fundamental biological structures and principles based upon animal material. The structure and physiology of cells, tissues, and organs are considered.

121. GENERAL ZOOLOGY. Winter and Spring. (4 q. hrs.)

This course is concerned with the various types of animal reproduction, genetics, eugenics, and with the fundamentals of embryology.

Prerequisite: Zoology 120 or equivalent.

122. GENERAL ZOOLOGY. Spring. (4 q. hrs.)

A study of the structure and natural history 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.

124. ELEMENTARY ORNITHOLOGY. (Omitted 1961-62). (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.

125. ELEMENTARY ENTOMOLOGY. (Omitted 1961-62). (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.

222. INVERTEBRATE ZOOLOGY. Spring. (4 q. hrs.)

This course deals comprehensively with the structure, adaptations, ecology, geographic distribution, phylogeny, and economic importance of the members of the invertebrate phyla of the animal kingdom. Required of students majoring in Zoology, the course is substituted for Zoology 122 in the first-year sequence in Zoology.

Prerequisite: Zoology 120 and 121.

225. ANATOMY. Every quarter. (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 systems, 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.

Prerequisite: None: however, Zoology 120 and 121 and sophomore standing are desirable.

226. ECONOMIC ENTOMOLOGY. (Omitted 1961-62). (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.

227. PARASITOLOGY. Fall. (4 q. hrs.)

The fundamentals of the study of animal parasites, means of identification, life histories, and methods of control of the more common parasites, including those of man.

Prerequisite: Zoology 120, 121, 122.

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.

Prerequisite: Zoology 120, 121.

336. GENETICS. (Omitted 1961-62). (4 q. hrs.)

A study of the basic laws of heredity and variation; the Mendelian 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.

340. METHODS OF TEACHING ZOOLOGY. Winter. (4 q. hrs.)

This course includes methods of teaching zoology and biology and also the collection and preparation of materials for demonstration and laboratory use in high-school classes.

Prerequisite: Admission to teacher education.

341. PROBLEMS IN ZOOLOGY. Any quarter. (4 q. hrs.)

Resigned to meet the needs of individual students who wish to do advanced work in some field of zoology.

Prerequisite: Five quarters of zoology and the permission of the department head.

343, 344, 345. ENTOMOLOGY. 343, Fall; 344, Winter; 345, Spring.
(4 q. hrs. for each course)

A study of insects. Deals with the morphology, classification, ecology and economic importance of this large class. Methods of collection and preparation of specimens are included.

Prerequisite: Zoology 120, 121, 122.

346. EMBRYOLOGY. Winter. (4 q. hrs.)

A study of the development of vertebrate animals, including such phases 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.

347. FISH BIOLOGY. (Omitted 1961-62). (4 q. hrs.)

The fundamentals of the study of the anatomy, classification, life histories and conservation of fish. Field work and study of local fish will be stressed.

Prerequisite: Zoology 120, 121, 122.

446. MICROTECHNIQUE. Fall and Spring. (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.

447. ANIMAL BEHAVIOR. (Omitted 1961-62). (4 q. hrs.)

Theoretical and experimental studies of the reactions of animals to various stimuli.

Prerequisite: Two years of zoology or permission of the department head.

448. ANIMAL ECOLOGY. Spring. (4 q. hrs.)

Deals with the interrelations between animals and their physical and biotic environments. This includes a study of biotic communities, population changes, succession, geographic distribution, and adaptations. The laboratory work is done largely in the field.

Prerequisite: Two years of zoology or permission of the department head.

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: Two years of zoology or permission of the department head.

450. ANIMAL HISTOLOGY. (Omitted 1961-62). (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.

545, 546. ADVANCED ZOOLOGY. Any quarter.

(4 q. hrs. for each course)

Courses designed to meet the needs of individual students who wish to do advanced work in some special field of Zoology.

Prerequisite: A minor or the equivalent in Zoology and the permission of the department head. Open to seniors or graduate students.

550. ORNITHOLOGY. (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.

551. FIELD ZOOLOGY. (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. Open only to graduates. May be offered toward Group III requirements.

595. THESIS. (4 q. hrs.)

XII. STATISTICS AND GRADUATES

SUMMARY OF ATTENDANCE

Twelve Months Ending May 25, 1961

SUMMER, 1960 UNIVERSITY		8 Weeks	11 Weeks	3 Weeks	Total
On Campus					
Full-time:	Men	386	206		
	Women	379	114		
	Total	765	320		1085
Part-time:	Men	64	0	33	
	Women	81	0	27	
	Total	145	0	60	205
Off Campus					
Part-time:	Men			7	
	Women			44	
	Total			51	51
Total	Men	450	206		
	Women	460	114		
	Total	910	320	111	1341
Full-Time Equivalent					1179

LABORATORY SCHOOL

238

REGULAR SCHOOL YEAR—September 7, 1960, to May 25, 1961.

UNIVERSITY

Full-Time, On Campus		Fall	Winter	Spring
Seniors:	Men	278	237	207
	Women	141	121	102
	Total	419	358	309
Juniors:	Men	301	298	292
	Women	185	178	184
	Total	486	476	476
Sophomores:	Men	396	387	385
	Women	261	254	238
	Total	657	641	623
Freshmen:	Men	647	656	594
	Women	444	435	424
	Total	1091	1091	1018
Unclassified:	Men	27	28	33
	Women	7	9	10
	Total	34	37	43
Graduates:	Men	28	25	29
	Women	8	7	6
	Total	36	32	35
Total	Men	1677	1631	1540
	Women	1046	1004	964
	Total	2723	2635	2504

Part-Time, On Campus				
Graduates:	Men	44	12	36
	Women	34	11	28
	Total	78	23	64
Undergraduates:	Men	16	14	29
	Women	46	37	45
	Total	62	51	74
Total	Men	60	26	65
	Women	80	48	73
	Total	140	74	138
Total, On Campus	Men	1737	1657	1605
	Women	1126	1052	1037
	Total	2863	2709	2642
Part-Time, Off Campus				
Total University	Men	45		54
	Women	104		196
	Total	209		250
Total University	Men	1782	1657	1659
	Women	1290	1052	1233
	Total	3072	2709	2892
Full-Time Equivalent				
LABORATORY SCHOOL				
LABORATORY SCHOOL	Boys	279	271	279
	Girls	246	257	252
	Total	525	528	531

Degree Graduates

Master of Science in Education

June, 1960

Name	Post Office
Brown, Winston	Chicago
Eaton, Mona June	Willow Hill
Eaton, Samuel F.	Willow Hill
Fulton, Larry Francis	Bloomington
Galbreath, Gordon Lynn	Granite City
Gilpin, Robert Henry	Newman
Grisamore, Sylvia Starwalt	Mattoon
Hoops, Donald L.	Villa Grove
Lyons, Thursa Richardson	Toledo
Marlow, Foster L.	Opdyke
Mettler, Larry Charles	Highland
Mitchell, James Emery	Newton
Neal, Anna Carolyn	Charleston
Popham, Marion Emily Hackley	Charleston
Richardson, Donald Eugene	Niantic
Stuckey, Robert Ernest	Newton
Webb, Eli Harriss	Sullivan
Williams, Billy Del	Effingham
Men	13
Women	5
Total	18

Bachelor of Science in Education

June, 1960

Name	Post Office
Allen, Elizabeth Jarrell	Paris
Allen, Hollie Richard	Bradley
Andersen, Guy Owen	Palatine
Armstrong, Forrest Dean	Chestnut
Arnholt, James Edward	Hoopeston
Atchison, Ronald Dean	Decatur
Atkins, Russell C.	Sumner
Awick, Lavonne Irene	Camargo
Baird, Charles Henry	Monticello
Baker, Wayne Allen	Charleston
Bear, Opal Alene	Homer
Bellaver, Laura Jean	Illisboro
Bennett, Charles Henry	Allerton
Bennett, Sandra Ehmen	Allerton
Bernhard, Beulah Jane	Shumway
Blythe, Ethel Ames	Monticello
Bobzin, Theresa Ruth Scott	Newton
Boedicker, Marilyn Marie	New Douglas
Boker, Carol Jean	Hutsonville
Bolander, Carolyn Elizabeth	Ste. Marie
Boley, Jerry Lee	Olney
Bolin, Daniel Joe	Vandalia
Bomkamp, Norman Harry	Carlinville
Bostwick, Alice R.	Lawrenceville
Bostwick, William Dean	Danville
Brantley, Walter Arnold	Robinson
Brosman, Jennie Lou	Paris
Bruce, Robert Leroy	Charleston
Buchanan, Myra Kay	Monticello
Burkhardt, William Earl	Rantoul
Bushue, Ronald Dean	Mason
Butts, Verda Joanne	Moline
Campbell, William A.	Taylorville
Cann, Carol Ann	Sizel
Carrell, Eva G. Martin	Mattoon
Checkley, John J.	Mattoon

Clark, Robert Stephen	Charleston
Clements, Robert John	Taylorville
Cogdal, Connie Sue	Sullivan
Conville, Rosina S.	Mattoon
Cortelyou, Michael Dan	Oblong
Crane, Lewis Henry	Bethany
Crawford, Donald Paul	Charleston
Crump, Richard Eugene	El Paso
Curry, Frank Leroy	Villa Grove
Dalide, Donald W.	Danville
Daly, James E.	Kincaid
Daniels, Robert L.	Ramsey
Dart, Norman Kent	Oblong
Davis, Rex Olin	Effingham
Davis, Susan Alice	Brookfield
Davison, David B.	Robinson
Dean, Kenneth Jerome	Rantoul
DeBois, Jo Ann	Mattoon
Decker, Jr., James Riley	Gifford
Devlin, William	Gillespie
Downs, Jackie Neal	Arcola
Drury, Thomas R.	Dupo
Duncan, Robert Wayne	Georgetown
Dutton, Joyce Ann Pasero	Paris
Dutton, Richard Edwin	Homer
Easton, Andrew	Gillespie
Edinger, Gene David	Charleston
Ellis, Richard Julian	Paris
England, Betty Sue	Mattoon
Erwin, Donald Paul	Louisville
Esker, Donald William	Harvey
Ethridge, Jerry Lee	Cowden
Evans, Jean M.	Litchfield
Eyestone, Myron Wayne	Urbana
Fairs, Johanne Hunter	Pittsfield, Massachusetts
Feo, William Craig	Lawrenceville
Ferree, Kathleen Frances	Mattoon
Finfrock, Benson Louis	Altamont
Fitzsimmons, Ronald Dean	Sidell
Foran, James William	Morton Grove
Foss, Jack R.	Crown Point, Indiana
Frahm, Errol Roberts	Tuscola
Freeland, Gary Lamoin	Neoga
Freeman, Leslie A.	Charleston
French, Mary Ellen	Terre Haute, Indiana
Fresenborg, Beverly Florence	Carmi
Fritschle, James Freeman	Bogota
Gaddis, John Edward	Mattoon
Garrison, Leona Thompson	Buffalo
Giovagnoli, Fred Gene	Kincaid
Glosser, Robert Eugene	Charleston
Granquist, Paul Edward	Chicago
Grunloh, Theresa Ann	Altamont
Gurnea, Ralph Leroy	Homer
Harrell, Franklin Gene	Casey
Hastings, Jean	Macon
Hatfield, Jack K.	Charleston
Hayes, Jack	Charleston
Hayward, John Allen	Olivet
Hemann, Ardith Ann	New Douglas
Henderson, Wilma Jean	Pesotum
Henkes, Theodore Elton	Hindsboro
Henry, Carole Ann	Danville
Hepburn, Carolyn Sue	Fairmount
Herzog, Gary Joe	Palmer
Hiatt, Eleanor Ruth	Farmer City
Hickerson, Gary Dale	Litchfield
Hildebrand, Roberta Marie	Pana
Hills, Robert Lee	Springfield
Hines, Bob Gene	Mattoon
Hlafka, James David	Gillespie
Hoffmire, Key Doll	Brownstown
Hopkins, Ramona Joan	Mattoon
Huddleston, Dwight Leroy	Rose Hill
Huffman, Curtis R.	Catlin

Huisinga, Alice Joan	Paris
Humphrey, Charles Leonard	Paris
Humphrey, Jr., Glenn Thomas	Moweaqua
Hurst, Harvey A.	Marshall
Jackson, Carol Louise	Milford
Jennings, Barbara Lynne	Olney
Jones, Marilyn Jean Tanigas	Herrick
Joshu, Irene Ann	Mt. Olive
Kannmacher, Phyllis Nadine	Marlinsville
Kapper, Edwin Cornelius	Olney
Kearney, Carol Ann	Arthur
Keller, Stuart Young	Algonquin
Kennedy, Kathryn M.	Mattoon
Kearns, Norman Eugene	Charleston
Kirby, Havis LaBara	Mattoon
Kitchen, Mildred Ann	Robinson
Kleiner, Jr., Joseph G.	Danville
Knight, Donald Conway	Mattoon
Koehn, Kenneth Harold	Mansfield
Kragler, Richard Allen	Mattoon
Kratochvil, Roger L.	Mt. Olive
Kuenneth, James Charles	Mt. Olive
LaMasters, Edward Reid	Charleston
Landers, Edward Lee	Rochester
Lathrop, Robert Frederick	Rantoul
Leach, Robert Allan	Chesterfield
Leach, Robert James	Philo
Leathers, Ronald Max	Lawrenceville
LeCrone, Eddie M.	Sullivan
LeDuc, Marcel Wilson	Tower Hill
Lee, Charlotte Ann	Martinsville
Lenzini, Judith	Kincaid
Lichtenwalter, Gerald R.	Toledo
Lillard, Rawlan	Danville
Lindsley, Hazel E.	Monticello
Long, Howard Abel	Taylorville
Maguire, James B.	Decatur
Mansfield, Nancy E.	Decatur
Martin, Pearl Louise	Yale
Martin, Ronald George	Paxton
Mathias, Ethel Agnes	Shelbyville
McClenathan, Bonnie Jean	Palestine
McFarland, Joe Allen	Coffeen
McKibben, Betty Jean	Mattoon
McNair, Myrna Louise Chlmer	Palestine
Meece, Charles Murray	Sidell
Metcalf, Marilyn Joan	Charleston
Michaels, Kenneth Duane	Mattoon
Miller, Charles William	Beecher City
Miller, Leonidas Henry	Charleston
Miller, Marilyn Lucile	Mattoon
Monahan, Patricia Mary	Skokie
Monge, Ronald P.	Tovey
Montgomery, Charles Mitchell	Mattoon
Morr, Edward Roy	Oakley
Moss, Phyllis Carol	Macon
Musgrove, Carolyn Ann	Mattoon
Neese, George Bower	Newton
Newman, Frederick Earl	Arcola
Newman, Jr., George Berkley	Westfield
Ochs, Addie Jo	Newton
O'Dell, Martha Jane	St. Francisville
Oseland, Larry Allen	Charleston
Oswalt, William Charles	Westville
Overlot, Jr., Francis L.	Pana
Pagliei, Dolores Jean	Joliet
Pahde, Alan Edwin	Mt. Olive
Parrish, Robert Eugene	Taylorville
Passalacqua, Rosann	Windsor
Paul, Sandra	Morton Grove
Peters, Judith Ann Anderson	Neoga
Phillips, Carolyn Sue	Olney
Phipps, Drexel Kermit	Centralia

Pickerill, James Elvin	Hillsboro
Poole, Roger Terrell	Clearwater, Florida
Potter, Robert George	Mattoon
Pottorff, Mary Louise	Martin Watson
Price, Blanche Heath	Lerna
Price, Robert Lee	Neoga
Randolph, Gary Kyle	Robinson
Rardin, Mildred Therese	Charleston
Ray, Catherine Rose	Sheffield
Rector, Mary Lou	Hoopeston
Ridlen, Donald Dean	Lakewood
Robb, Myrna Anne	Chicago
Robertson, Betty Ricchetti	Shelbyville
Rolando, James Edward	Gillespie
Rotter, Geraldine Marie	Edwardsville
Ruddell, Paul Franklin	Robinson
Sabo, Wilma Esther	Grant Park
Sams, Jon Mason	West Salem
Sanders, Phillip Dean	Arcola
Sanders, Richard Ray	Litchfield
Scattergood, Beverly Joan	Pawnee
Schaefer, Donald Lee	Pesotum
Schuetz, Donna Pearl	Lovington
Schwartz, Vernetta E.	Dieterich
Shadwell, Delvenia Gail	Effingham
Sherman, John Howard	Rantoul
Shirar, Charles Howard	Paris
Shirley, Marilyn Joyce	Mattoon
Shoenaker, Mary Lou	Ohlman
Smargiassi, Donald Thomas	Springfield
Smith, Glenda Lee	Danville
Smith, Lawrence Irving	Cerro Gordo
Smith, Suzanne Helen	Dalton City
Spoonamore, Charles Curtis	Springfield
Stanfield, Carol Ann	West Union
Stanfield, Rodger Franklin	Louisville
Stanis, LeRoy John	Westville
Stanley, Ronald Deneen	Hammond
Stilgebauer, Marilyn Kaye	Mattoon
Stockman, Calvin Lee	Charleston
Stokes, Lillian May	Crossville
Strohl, Bonnie J.	Stewardson
Stuart, Roy Francis	Toledo
Sutton, Robert M.	Olney
Swinford, Betty Lou	Rossville
Swinford, Noel Truman	Charleston
Szabo, Joseph	Tovey
Taylor, Larry Lee	Homer
Terrell, Carole Sue	Charleston
Thomas, Jack Jerome	Mattoon
Thornton, Ruth Ann	Danville
Tolliver, Donnie Lee	Louisville
Tomlinson, Sharon Louise	Macon
Troyer, Kay N.	Gibson City
Tull, Shirley Mae	Shelbyville
Unterbrink, Howard Leland	Moro
Vahling, Harold Edward	Wheeler
Vits, Carole Stevenson	Pana
Volkers, Ruth Nadine	Marshall
Vulgamott, Janice Kay	Cerro Gordo
Wagner, Mark E.	Charleston
Walgren, Jr., John Wilson	Springfield
Wall, James Edward	Skokie
Wall, Rita Jane	Windsor
Walstrom, John A. J.	Ramsey
Warpenburg, Norman Lee	Charleston
Warren, James Carroll	Tower Hill
Wartsbaugh, Elberta Carol	Newton
Watson, Jo Ann H.	Charleston
Way, Paul Jackson	Charleston
Weber, Rosalee Marie	Teutopolis
Weeks, Jr., Paul Leslie	Mattoon
Weldon, Martha Gentry	Oak Park
Wendling, James F.	Altamont

Wessel, Theodore Henry	Teutopolis
White, Evelyn Suzanne	Chrisman
Whiting, Richard Simpson	Winnetka
Wilburn, Richard Arlen	Olney
Wilcox, Linda Parker	Chicago
Willison, Delbert L.	Arcola
Wiman, Warren Green	Robinson
Wolf, Doris Berg	Altamont
Woodard, Martrene	Palestine
Wooley, Gary Gene	Sullivan
Worthall, Jr., Michael Angelo	Newton
Wright, Orville Gayle	Bridgeport
Zuber, Charles Joseph	Ste. Marie
Men	162
Women	109
Total	271

Bachelor of Science

June, 1960

Name	Post Office
Adcock, James Russell	Clinton
Anderson, Donald Glen	Chicago
Andrews, Charles T.	Ashmore
Crawford, Gerald James	Borton
Crawford, Robert Marion	Metcalf
Dafley, Larry Al	Vincennes, Indiana
Decker, Oliver Dean	Charleston
Dillier, James Lee	Casey
Easton, Paul D.	Mattoon
Eckerty, Bob D.	Newman
Elmore, David Lloyd	Farmer City
Ewing, Donald Lee	Casey
Frost, Harry Williams	Robinson
Gondry, Janet Ann	Westville
Hewitt, James Edward	Minonk
Hill, Dennis McCann	Jewett
Hinton, Max Wendell	Fisher
Johnson, David Lee	Thayer
Kitchen, Donald Lea	Charleston
Lewis, James Britton	Oak Park
Lines, Paul LeRoy	Macon
Lowry, James Keith	Marshall
Marsh, Curtis Chadwick	Tuscola
McAchrn, Gerald Eugene	Mattoon
Merry, Raymond W.	Lincoln
Miller, Robert S.	Charleston
Miller, Samuel E.	Beecher City
Mutchmore, Gary G.	Robinson
Nelson, Clark Morrow	Mattoon
Olson, William Edward	Calumet City
Parry, James Donald	Philo
Pattison, Larry Andrew	Danville
Pinkstaff, Carlin Adam	Pinkstaff
Roderick, Roger Duane	Tuscola
Ross, Read C.	Mattoon
Sawyer, Allen D.	Hammond
Schedlbauer, Lester Charles	Newton

Scott, Tommy Hawkins	Champaign
Sewell, Ronald Dean	Mattoon
Shan, Jerry Loren	Noble
Sims, Nolan Kent	Mattoon
Skvara, Donald Eugene	Calumet City
Taylor, Charles Thomas	Champaign
Vantassell, Charles Norman	Robinson
Williams, James Clinton	Strasburg
Men	44
Women	1
Total	45

Bachelor of Arts

June, 1960

Barris, William Joseph	Park Forest
Ferguson, Curtis Lee	San Pedro, California
Haddock, Thomas Eugene	Casey
Lagow, Larry Dwane	Mt. Carmel
Lloyd, Bess Estes	Charleston
Young, James D.	Mattoon
Men	5
Women	1
Total	6

Junior College Diploma

June, 1960

Name	Post Office
Kissee, Jr., Hillis C.	Decatur
Men	1

Master of Science in Education

August, 1960

Name	Post Office
Anderson, Arnold Christopher	Olny
Bailey, George Lewis	Olny
Baker, Mervin C.	Charleston
Beers, Ranson Bloomer	Sidell
Belz, James Louis	Springfield
Buchanan, Lucille Baker	Toledo
Cahill, Patrick Glynn	Springfield
Coleman, Thomas Edward	Paris
Connell, Lucy Ware	Pana
Day, Bernadine Marie	Lerna
Deming, Donna Isabel	Charleston
Edgington, Charles Wendell	Mattoon
Fields, David Leonard	Danville
Fitzpatrick, Clinton Neal	Charleston
Fongarbh, Boon-Ek	Bankok, Thailand
Gonzales, Rudy G.	Chicago
Goodfellow, Velta Hart	Effingham

Hackler, George Jr.	Eureka
Henderson, Donald Wayne	Peoria Heights
Huddleston, Dwight Leroy	Rose Hill
Irvine, Patricia Ann	Paris
Jasper, Clarence Ira	Hume
Jones, Dorene Parkinson	Centralia
Keener, John H.	Albion
Mashaney, Marilouise K.	Freeport
McMorris, Ronald F.	Galena
Miller, Mildred C.	Mattoon
Moore, James Charles	Sullivan
Niebrugge, Kenneth Paul	Effingham
Ogle, Janelle Ellen	Jacksonville
Potts, Taddy Gayle	Paducah, Kentucky
Prater, B. A.	Hopedale
Rademacher, Willis H. W.	Gillespie
Schouten, Mary Kathryn	Charleston
Schouten, William Richard	Charleston
Shumaker, Arrah Jean	Olney
Stoner, Sue Brasel	Charleston
Sullivan, Andrew J.	Granite City
Temple, Glen W.	Effingham
Trimble, Darrel Thornton	Grant Park
Ulmer, Rosemary Ellen	Sullivan
Wallace, Barbara Vanault	Mt. Carmel
Wallace, Robert Gene	Mt. Carmel
Wendling, Kenneth Dale	Taylorville
Weppler, Robert L.	Oblong
Zane, Marion Leroy	Paris
Zimmerman, Robert Edward	Litchfield
Men	31
Women	16
Total	47

Bachelor of Science in Education

August, 1960

Name	Post Office
Allen, Kenneth Ray	Flindley
Ankenbrand, Ralph J.	Mt. Carmel
Baer, Theodore James	Hoopston
Baker, Esther Herring	Litchfield
Barber, Thomas Leonard	Olney
Bartlett, Janet Sue	Watseka
Bauer, William Thomas	Flindley
Beals, Roger Dean	Neoga
Bergstrom, Carolyn Mae	Fairfield
Bergstrom, Ralph Helmer	Chicago
Bonwell, Joyce Ellen	Champaign
Briles, Bob J.	Madison
Brown, Lewis Wayne	Greenup
Brunn, Stanley D.	Bridgeport
Burkhart, Jr., Clarence L.	Litchfield
Burruss, Carl Buddy	Tuscola
Burrus, Irene B.	Brownstown
Caton, Darsol Kent	Mattoon
Cechota, John James	Custer Park
Clark, Joan Claire	Sumner
Clark, Samuel James	Bement

Courtney, James S.	Ashmore
Cole, Pearl Settle	Bethany
Cox, Sarah Wozencraft	Durham, North Carolina
Craig, Mary Elizabeth	Janesville
Craven, Judith Ann	Watsika
Damhorst, Roger R.	Quincy
Delaney, Joseph Raymond	Mattoon
Diepholz, Kenneth Ray	Mattoon
Dobbs, Clifford Ray	Longview
Dots, Karen Joplin	Charleston
Drake, Edward Allau	Taylorville
Ellis, Charles Martin	Litchfield
Eveland, Linda Ann	Paris
Franke, Jean Kathleen	Aigonquin
Gebben, Phillip Bernard	Springfield
Georgalis, Ypapanti (Peggy)	Danville
Gharst, John O.	Lovington
Gifford, Norma Ives	Newton
Griffin, Laura Marie	Mason City
Griffith, William Raiford	Kansas
Grove, Frank Henry	Rock Falls
Hall, John Doyle	Charleston
Hance, Doris Jean	Mattoon
Hay, Mary Kathryn	Ogden
Higginbotham, Phyllis Ann Quick	Marshall
Hill, Janice Rae	Toledo
Hooper, Fred	Charleston
Huff, Keith Dean	Lockport
Hunter, Carolyn Anne	Chrisman
Jones, Louise Christine	Greenup
Kamman, Margaret Mary	Sidell
Kane, John L.	Carmi
Kemper, Faye E.	Casey
Lawson, Paul Eugene	Mattoon
LeDuc, Fred Louis	Tower Hill
Lentz, Thelma Elliott	Charleston
Lindsay, Patricia Jean	Harvard
Lloyd, Ruth Marlene	Tuscola
Maleom, Donald E.	Charleston
McElroy, Virginia A.	Sidney
McInroe, David Lee	Decatur
McIntosh, Joyce Kirchhoff	Edgewood
Millis, Rita Joan Green	Palestine
Mitchell, Maurine Spencer	Bethany
Morrison, Charles Walter	Silvis
Myers, Verlon Dean	Charleston
Oyer, Donald Ray	Lovington
Petrokovitch, Ruth Ann	Oak Lawn
Pierce, William Gregg	Gibson City
Porter, Edith Muriel	Chrisman
Pribble, Jack	Georgetown
Pribble, Sedonia Priscilla	Flora
Quindry, Jr., Charles Lowell	Fairfield
Rainey, Paul Wallace	Hillsboro
Rhoden, Charlotte Kirk	Ashmore
Richardson, Gail Lee	Charleston
Robb, Lynne Ellen	Chicago
Rokers, Donna Juanita	Findlay
Roper, Charles Reese	Carlinville
Schmidt, Edgar William	Alton
Senls, Billie Ann Breen	Lawrenceville
Schy, Barbara A.	Effingham
Shoak, Judith Ann	Marshall
Smith, Leonard D.	Shelbyville
Snider, Sharon Ann	Atwood
Starwalt, Durrell Eugene	Toledo

Statzer, Carol Lynn Jones	Tuscola
Storm, Helen Baker	Mattoon
Strain, Terry Leo	Greenup
Temples, Goldeen Woodall	Hindsboro
Thacker, Marilyn Elaine	Litchfield
Tipsword, Ronald Duane	Ridgefarm
Tucker, Jeanna Porter	Vandalia
Tuggle, Charles R.	Rossville
VanWinkle, Mattie Sue	Edwardsville
Walborn, Sylvia Mae	Sailor Springs
Walker, Iryis Faye Pritts	Bethany
Weiss, Olive Irene	Mattoon
Welch, Patsy	Monticello
Westerdale, Leonard Wallace	Tennessee
Wetzel, Dara Lynn	Humboldt
White, Charley Monroe	Rose Hill
White, Frances Ruth	Danville
Wickiser, Duane Armer	Mattoon
Williams, Victor Terenuku	Pago Pago, American Samoa
Wood, Robert Ellis	Springfield
Wurtsbaugh, Jr., Ray Michael	Danville
York, David J.	Charleston
Zachow, John Edward	Mattoon
Men	57
Women	53
Total	110

Bachelor of Arts

August, 1960

Name	Post Office
Neims, Wayne Edward	Mattoon
Schulman, Roberta	Charleston
Wheeler, Helen Jane	Newton
Men	1
Women	2
Total	3

Bachelor of Science

August, 1960

Name	Post Office
Ashby, Claude L.	Charleston
Brooks, James Marshall	Springfield
Dayton, Gilbert Roger	Danville
Eubank, Hugh Ryland	Greenup
Faber, Peter Wilson	Effingham
French, Robert Mills	Charleston
Gardner, Donovan F.	Pontiac
Gulledge, Philip Eugene	Calumet City
Hahn, Timothy James	Olney
Hubbard, Roland Eugene	Shipman
Hung, Do Xuan	Phung-Saigon, Viet Nam
Ives, Henry G.	Taylorville
Less, Darrel Earl	Robinson
Swanson, Arthur E.	Hoopeston
Thompson, James Lantz	Huntington, Pennsylvania
Toney, Byron Jack	Decatur
Wente, William Donald	Mattoon
Wilson, Marvin E.	Lawrenceville

Men: 18 Women 0—Total: 18

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