

1964

Eastern Illinois University Undergraduate Catalog 1964

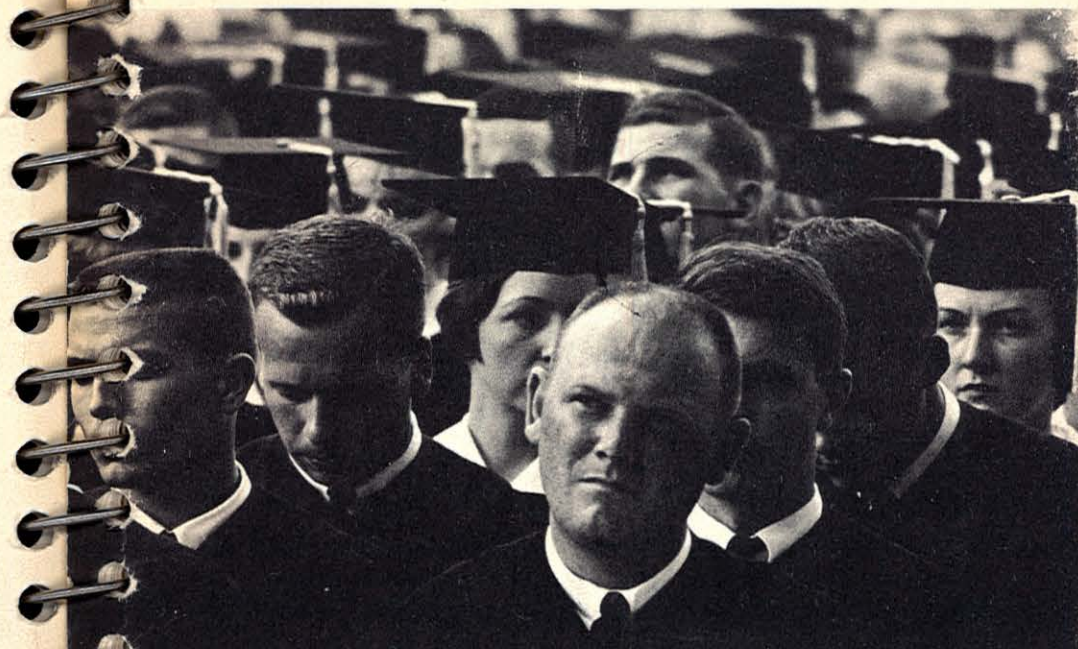
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EASTERN ILLINOIS UNIVERSITY

CATALOG

Eastern Illinois University Bulletin
Charleston, Illinois

**EASTERN ILLINOIS
UNIVERSITY BULLETIN**

NO. 252

JULY, 1964

THE STUDENT'S RESPONSIBILITY

All colleges establish certain requirements which must be met before a degree is granted. These requirements concern such things as courses, majors and minors, and residence. Advisers, directors, and deans will always help a student meet these requirements, but the student himself is responsible for fulfilling them. At the end of his course the University decides whether or not the student will receive a degree. If requirements have not been met, the degree will be refused until such time as they have been met. For this reason it is important for each student to acquaint himself with the requirements and continue to keep himself informed about them during his college career.

Also, it is necessary in the general administration of a college to establish broad policies and to lay down certain regulations and procedures by which they may be carried out. It is important that a student understand the policies and know the regulations and procedures he is expected to follow.

The catalog is presented, therefore, not only to enable prospective students and others to learn about Eastern Illinois University, Charleston, but to state policies, requirements, regulations, and procedures in such form as will be of help to the student as he goes through school.

65th YEAR

ACADEMIC RECORD 1963-64 SESSIONS

ANNOUNCEMENTS FOR 1964-65 SESSIONS

EASTERN ILLINOIS UNIVERSITY BULLETIN

Number 252

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UNIVERSITY CALENDAR 1964-1965

Fall Quarter, 1964

Wednesday, September 2, Noon.....Faculty Day
 Thursday-Friday, September 3-4.....New Student Orientation
 Saturday, September 5.....Registration Day
 Monday, September 7.....Parents Convocation
 Tuesday, September 8.....Classes Begin
 Friday, October 9.....I.E.A. Division Meeting
 Saturday, October 17.....Homecoming
 Thursday, Friday, Monday, Tuesday,
 November 19, 20, 23, 24.....Examinations
 Wednesday, November 25.....Quarter Closes

Winter Quarter, 1964-65

Tuesday, December 1.....Registration
 Wednesday, December 2.....Classes Begin
 Friday, December 18 (6:00 p.m.)....Christmas Vacation Begins
 Monday, January 4.....Classes Resume
 Monday, January 11.....Junior English Examination
 Wednesday-Saturday, February 24, 25, 26, 27.....Examinations
 Monday, March 1.....Quarter Closes

Spring Quarter, 1965

Monday, March 8.....Registration
 Tuesday, March 9.....Classes Begin
 Tuesday, March 16.....Constitution Examination
 Thursday, April 1.....Last Date—Application for Graduation
 Thursday, April 1.....Last Date—Application for
 Certificate Card of Entitlement
 Friday, April 16.....Good Friday
 Sunday, May 23.....Commencement
 Monday-Thursday, May 24, 25, 26, 27.....Examinations
 Friday, May 28.....Quarter Closes

Summer Quarter, 1965

Monday, June 7.....Registration
 Tuesday, June 8.....Classes Begin
 Tuesday, June 15.....Constitution Examination
 Wednesday, June 16.....Junior English Examination
 Monday, June 21.....Registration, Graduate Term
 Thursday, July 1.....Last Date—Application for Graduation
 Thursday, July 1.....Last Date—Application for
 Certificate Card of Entitlement
 Wednesday-Friday, August 11, 12, 13.....Examinations
 Thursday, August 12.....Commencement
 Saturday, August 14.....Quarter Closes

THE TEACHERS COLLEGE BOARD



APPOINTED MEMBERS

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WILLIAM E. McBRIDE, Chicago.....	1961-67
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J. BON HARTLINE, Anna.....	1963-69
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JAMES A. RONAN
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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.

FACULTY

EASTERN ILLINOIS UNIVERSITY CHARLESTON



FACULTY 1963-64



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

ADMINISTRATIVE STAFF

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B.A., Carroll College, 1927; M.A., 1930, Ph.D., 1948, University of Wisconsin; LL.D., Carroll College, 1960. (1956)

ASA M. RUYLE, JR., Ed.D.....*Assistant to the President*
B.S., 1946, M.Ed., 1947, Ed.D., 1949, University of Missouri. (1956)

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)

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)

Officers of Instruction

HOBART FRANKLIN HELLER, Ph.D.....*Vice President for Instruction*
B.S., Gettysburg College, 1924; A.M., 1931, Ph.D., 1940, Columbia University. (1931)

LAWRENCE ALBERT RINGENBERG, Ph.D.....*Dean, College of Letters and Science*
A.B., B.S. in Ed., Bowling Green State University, 1937; M.A., 1939, Ph.D., 1941, The Ohio State University. (1947)

DONALD F. TINGLEY, Ph.D.....*Chairman, Division of Latin American Studies*
B.S. in Ed., Eastern Illinois State College, 1947; A.M., 1948; Ph.D., 1952, University of Illinois. (1953)

- IRVIN L. SPARKS, Ph.D.....*Chairman, Division of
Pre-Engineering Studies*
B.S., Central Missouri State College, 1943; A.M., 1948,
Ph.D., 1951, University of Missouri. (1950)
- ROBERT J. SMITH, Ph.D.....*Chairman, Division of
Pre-Medical Studies*
B.S. in Ed., Southeast Missouri State College, 1936; M.S.,
1941, Ph.D., 1950, State University of Iowa. (1955)
- GLENN H. SEYMOUR, Ph.D.....*Chairman, Division of
Social Studies*
A.B., 1924, M.A., 1925, Ph.D., 1929, University of Illinois.
(1929)
- WALTER M. SCRUGGS, Ph.D., Pd.D.....*Director of Division
of Life Sciences*
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)
- MARTIN SCHAEFER, Ph.D.....*Dean of the Faculty for
Professional Education*
B.Ed., Wisconsin State College, 1948; M.A., 1951, Ph.D.,
1958, State University of Iowa. (1958)
- LAVERN MARSHALL HAMAND, Ph.D.....*Dean,
Graduate School*
B.S., Illinois Wesleyan University, 1940; M.A., 1947, Ph.D.,
1949, University of Illinois. (1957)
- JAMES F. GIFFIN, Ph.D.....*Director, School of Business*
B.S. in Ed., Eastern Illinois State College, 1946; M.C.S.,
Indiana University, 1947; Ph.D., Northwestern University,
1953. (1947)
- HARRY JAMES MERIGIS, Ed.D.....*Director, School of
Elementary and Junior High School Teaching*
B.Ed., State University Teachers College, Plattsburg, New
York, 1947; Ed.D., University of Oklahoma, 1954. (1954)
- DONALD GEORGE GILL, M.Ed.....*Principal
of Laboratory School*
A.B., Illinois College, 1951; M.Ed., University of Illinois,
1955. (1960)
- LEO J. DVORAK, Ph.D.....*Director of the School of Music*
B.A., B.M., 1932, Upper Iowa University; M.A., 1933, Ph.D.,
1939, State University of Iowa. (1940)
- ROSCOE FREDERICK SCHAUPP, Ph.D.....*Director of
Library Services*
A.B., University of Nebraska, 1926; M.A., 1929, Ph.D., 1934,
The Ohio State University; A.B.L.S., University of Michi-
gan, 1939. (1945)

- VERNE ALLEN STOCKMAN, Ed.D.....*Director
of Audio-Visual Center*
B.S., 1928, M.A., 1931, Ed.D., 1952, Michigan State College.
(1955)
- 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)
- ROY J. VANDRESER, M.S.....*Assistant in
Audio-Visual Center*
B.S., 1958, M.S., 1959, Stout State College. (1962)

Officers of Administration

- WILLIAM HENRY ZEIGEL, Ph.D.....*Vice President
for Administration*
B.S., Kirksville State Teachers College, 1925; A.M., 1926,
Ph.D., 1930, University of Missouri. (1937)
- RUDOLPH DONALD ANFINSON, Ph.D.....*Dean,
Student Personnel Services*
B.Ed., State Teachers College, St. Cloud, Minnesota, 1932;
M.A., 1933, Ph.D., 1939, University of Minnesota. (1940)
- ELIZABETH KNIGHT LAWSON, Ph.D.....*Associate Dean,
Student Personnel Services and Dean of Women*
B.A., 1927, M.A., 1935, Bucknell University; Ph.D., New
York University, 1939. (1939)
- VIRGINIA ELLEN SMITH, M.A....*Assistant Dean of Women*
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
Columbia University, 1927. (1959)
- SALLIE A. GUY, M.A.....*Residence Hall
Counselor, Lincoln Hall*
B.A., Iowa State Teachers College, 1951; M.A., Syracuse
University, 1955. (1961)
- JO ANNE STUEBE, M.S.Ed.....*Residence Hall
Counselor, Ford Hall*
B.S. in Ed., 1955, M.S. in Ed., 1957, Eastern Illinois
University. (1962)
- MARLENE KAYE, A.M.....*Residence Hall
Counselor, Weller Hall*
B.A., University of Oklahoma, 1962; A.M., Stanford
University, 1963. (1963)

- JUDITH STRATTAN, M.S. *Residence Hall
Counselor, McKinney Hall*
B.S., 1960, M.S., 1963, Indiana University. (1963)
- DONALD A. KLUGE, M.A. *Assistant Dean, Student
Personnel Services and Dean of Men*
Ph.B., Carroll College, 1947; M.A., Northwestern University, 1951. Graduate study, Indiana University, 1959-60. (1957)
- MICHAEL HOCTOR, M.A. *Assistant Dean of Men*
B.A., 1957, M.A., 1963, Washington State University. (1963)
- RICHARD ANTES, M.Ed. *Residence Hall
Counselor, Thomas Hall*
B.S. in Ed., 1959, M.Ed., 1960, Ohio University. (1963)
- JERRY WESSON, M.S. *Residence Hall
Counselor, Douglas Hall*
B.S., 1962, M.S., 1963, East Texas State College. (1963)
- DONALD WISTHUFF, M.S. in Ed. *Assistant Residence
Hall Counselor, Thomas Hall*
B.S. in Ed., 1959, M.S. in Ed., 1960, Illinois State Normal University. (1963)
- WILLIAM D. MINER, Ph.D. *Assistant Dean, Student
Personnel Services*
A.B., Knox College, 1936; A.M., 1948, Ph.D., 1950, Indiana University. (1950)
- ROSS C. LYMAN, B.S. *Director of Financial Aids*
B.S., University of Illinois, 1937. (1961)
- 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)
- 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)
- 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)
- WILLIAM HOOPER. *Director of University Union*
B.Ed., 1942, M.S.Ed., 1949, Illinois State Normal University. (1962)
- TERRY V. SIMMONS, B.S. in Ed. *Assistant Director
of University Union*
B.S. in Ed., Eastern Illinois University, 1961. (1962)

- TYMON F. MITCHELL, B.S. in Ed. *Assistant Director
of University Union*
B.S. in Ed., Eastern Illinois University, 1962. (1959)
- WILLIAM H. ZEIGEL, Ph.D. *Dean, Student
Academic Services*
B.S., Kirksville State Teachers College, 1925; A.M., 1926, Ph.D., 1930, University of Missouri. (1937)
- GLENN D. WILLIAMS, Ph.D. *Associate Dean, Student
Academic Services and Director of Extension*
B.S., 1950, M.Ed., 1954, Ph.D., 1960, The Ohio State University. (1960)
- 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)
- JAMES KNOTT, M.A. *Director of Placement*
B.S., Eastern Illinois State College, 1949; M.A., Northwestern University, 1952. (1957)
- DAVID T. 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. in Ed., Indiana University, 1956. (1959)
- SAMUEL J. TABER, B.S. in Ed. *Assistant Director
of Admissions*
B.S. in Ed., Eastern Illinois State College, 1954. (On leave 1963-64) (1960)
- MURRAY R. CHOATE, M.S.Ed. *Substitute Assistant
Director of Admissions*
B.S.Ed., 1957, M.S.Ed., 1958, Southern Illinois University. (1962)
- HARLEY J. HOLT, M.S. *Director of Business Services*
B.E., Wisconsin State University, 1936; M.S., University of Wisconsin, 1960. (1963)
- GERALD GENE GREEN, M.B.A. *Assistant Director
of Business Services*
B.S., Illinois State Normal University, 1949; M.B.A., Indiana University, 1950; Graduate Study, Indiana University, 1951-52, 1962-63. (1955)
- GERALD T. CRAVEY, B.S. *Director of Physical Plant*
B.S., University of Illinois, 1949. (1951)
- WAYNE E. WILLIAMS, B.S. *Internal Auditor*
B.S., Millikin University, 1951. (1961)
- JOHN ALBERT WALSTROM, M.S. in Ed. *Technical Director,
Data Processing Center*
B.S. in Ed., 1960, M.S. in Ed., 1963, Eastern Illinois University. (1959)

COLLEGE OF LETTERS AND SCIENCE

LAWRENCE A. RINGENBERG, Ph.D. *Dean*

ART

CALVIN COUNTRYMAN, D.Ed.* *Professor*
Ph.B., University of Chicago, 1934; A.M., Colorado
State College of Education, 1941; D.Ed., Pennsylvania
State University, 1955. (1945)CARL EDWIN SHULL, Ph.D. *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)LYNN EDGAR TRANK, Ph.D. *Associate Professor*
B.F.A., University of Nebraska, 1942; B.F.A., Washing-
ton University, 1948; M.F.A., State University of Iowa,
1950; Ph.D., The Ohio State University, 1961. (1952)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. (1944)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. Graduate Study, University of Illinois,
1961-62. (1953)PHILLIP M. SETTLE, M.F.A. *Assistant Professor*
B.S. in Ed., Eastern Illinois State College, 1950; M.F.A.,
University of Illinois, 1953. (1957)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)HANNAH NEWGENT EADS, M.S. in Ed. *Instructor*
B.S. in Ed., 1954, M.S. in Ed., 1957, Eastern Illinois
University. (1961)CARL E. EMMERICH, M.A. *Instructor*
B.A., 1953, M.A., 1957, University of North Dakota.
(1962)JERRY MCROBERTS, M.A. *Instructor*
B.A., Iowa State Teachers College, 1956; M.A., Univer-
sity of Illinois, 1963. (1963)AL R. MOLDROSKI, M.A. *Instructor*
B.S., Indiana State College, 1954; M.A., Michigan State
University, 1959. (1963)WILLIAM L. WOODWARD, M.F.A. *Part-time Instructor*
B.F.A., Illinois Wesleyan University, 1958; M.F.A.,
State University of Iowa, 1963. (1963)

CHEMISTRY

HARRIS EUGENE PHIPPS, Ph.D.* *Professor*
A.B., 1926, M.A., 1928, Oberlin College; Ph.D., University
of Illinois, 1931. (1931)LAWSON FRANCIS MARCY, Ph.D. *Professor*
B.A., Evansville College, 1924; M.A., Columbia Univer-
sity, 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. (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. *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)GEORGE LEWIS CUNNINGHAM, Ph.D. *Associate Professor*
B.Eng., Tulane University, 1944; M.S., 1947, Ph.D., 1950,
University of California, Berkeley. (1961)

ARNOLD JOHN HOFFMAN, M.S. *Assistant Professor*
B.S., Eureka College, 1930; M.S., University of Illinois,
1932. (1945)

JULIAN J. HAMERSKI, Ph.D. *Assistant Professor*
B.S., 1952, M.A., 1957, St. Mary's College; Ph.D., Uni-
versity of the Pacific, 1963. (1963)

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. (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 Uni-
versity, 1926; A.M., Radcliffe College, 1928; Ph.D., The
University of Chicago, 1939; Litt. D., Bridgewater
College, 1955. (1947)

JUDD KLINE, Ph.D. *Professor*
B.S., 1937, M.A., 1939, Ph.D., 1947, University of Minne-
sota. (1948)

EMMA CHENAULT KELLY, Ed.D. *Professor*
A.B., University of Kentucky, 1927; M.A., Columbia Uni-
versity, 1937; Ed.D., New York University, 1953. (1946)

MERRILIE MATHER, 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.
(On sabbatical leave 1963-64) (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. (On sabbatical leave 1963-64) (1956)

ROBERT V. WHARTON, Ph.D. *Associate Professor*
B.A., University of Delaware, 1942; M.A., 1945, Ph.D.,
1954, Columbia University. (1956)

MARION LEE STEINMETZ, Ph.D. *Associate Professor*
B.A., Sterling College, 1950; M.A., 1951, Ph.D., 1957,
Brown University. (1959)

JAMES A. WALKER, Ph.D. *Associate Professor*
B.A., Amherst College, 1939; M.A., 1941, Ph.D., 1948,
Harvard University. (1963)

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)

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)

MARIE N. TYCER, Ph.D. *Assistant Professor*
A.B., Webster College, 1942; A.M., St. Louis University,
1944; Ph.D., The Ohio State University, 1950. (1961)

STANFORD CARLSON, M.A. *Assistant Professor*
B.A., 1950, M.A., 1952, University of Minnesota; Gradu-
ate Study, University of Oregon, 1953-54. (1962)

GEORGE M. COLBY, M.A. *Assistant Professor*
Ph.B., 1949, M.A., 1952, University of Chicago; Gradu-
ate Study, Ohio State University, 1954-62. (1962)

JOANNE COOPER, M.A. *Assistant Professor*
B.A., Montana State University, 1958; M.A., University
of Washington, 1961. Graduate Study, University of
Washington, 1958-59, 1960-63. (1963)

SHELDON KAGAN, M.A. *Assistant Professor*
B.A., Hunter College, 1957; M.A., New York University,
1960. Graduate Study, University of Pennsylvania, 1960-
63. (1963)

ROBERT JONES, M.S. *Assistant Professor*
B.S., 1949, M.S., 1951, Indiana State College. (1963)

FRANCES WAMSLEY MCCOLL, M.A. *Instructor*
B.S., University of Illinois, 1934; M.A., Columbia University, 1957. (1957)

GERTRUDE DEKRAKER, M.A.T. *Instructor*
A.B., University of Rochester, 1960; M.A.T., John Hopkins University, 1961. Graduate Study, Johns Hopkins University, 1961-62, University of Washington, 1962-63. (1963)

JAMES HARTMAN, M.A. *Instructor*
A.B., Ohio University, 1961; M.A., University of Michigan, 1962. Graduate Study, University of Illinois, 1962-63. (1963)

WILLIAM D. MILLER, M.A. *Instructor*
B.A., 1961, M.A., 1962, University of Illinois. (1963)

RACHEL RICHARDSON, M.S.Ed. *Instructor*
B.S. in Ed., 1950, M.S. in Ed., 1956, Eastern Illinois State College. (1963)

FOREIGN LANGUAGES

MARTIN MICHAEL MIESS, Ph.D.* *Associate Professor*
Baccalaureat, Pressburg, 1945; Ph.D., Universitaet Innsbruck, 1952. (1956)

KEVIN JOSEPH GUINAGH, Ph.D. *Professor*
A.B., 1919, A.M., 1921, St. Vincent College; Ph.D., University of Pittsburgh, 1931. (1931)

ELIZABETH MICHAEL, Ph.D. *Professor*
A.B., Coe College, 1928; A.M., The University of Chicago, 1929; Ph.D., Laval University, 1948. (1930)

BORIS N. GRATSH, Ph.D. *Professor*
Ph.D., Hanseatic University, 1943. (1963)

H. LOGAN COBB, Ph.D. *Associate Professor*
B.S. in Ed., 1930, A.M., 1937, Ph.D., 1947, University of Missouri. (1963)

RICHARD MORFIT, Ph.D. *Associate Professor*
B.A., Rutgers University, 1942; M.A., 1947, Ph.D., 1948, Universite Laval. (1963)

V. CHARLES BARSAN, M.A. *Assistant Professor*
B.A., Blaj, 1939; M.A. University of Bucharest, 1943; M.A., Northwestern University, 1954. (1961)

GEORGIANA BABB, Ph.D. *Assistant Professor*
B.A., 1943 M.A., 1946, Ph.D., 1951, Ohio State University. (1962)

GERALDINA ORTIZ-MUNIZ *Assistant Professor*
B.A., 1955, M.A., 1958, Ph.D., 1960, Florida State University. (1962)

GEORGE W. WOODYARD, M.A. *Instructor*
B.S. in Ed., Eastern Illinois State College, 1954; M.A., New Mexico State University, 1955. (On leave 1963-64) (1961)

DOROTHY COBB, M.A. *Instructor*
B.S. in Ed., Central Missouri State College, 1935; M.A., University of Missouri, 1944. (1963)

DONALD L. MCKEE, B.S. in Ed. *Faculty Assistant*
B.S. in Ed., Eastern Illinois University, 1954. (1961)

HELEN VANDEVENTER, M.S. in Ed. *Substitute Instructor*
B.Ed., 1932, M.S. in Ed., 1947, Eastern Illinois State College. (1960)

GEOGRAPHY

DALIAS A. PRICE, Ph.D.* *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)

WALTER H. McDONALD, Ph.D. *Associate Professor*
B.S., Southern Illinois University, 1946; M.S., 1949; Ph.D., 1953, University of Illinois. (1958)

YING CHENG KIANG, Ph.D. *Assistant Professor*
B.A., National Central University, Nanking, China, 1940; M.A., Stanford University, 1945; Ph.D., Columbia University, 1955. (1956)

HISTORY

PARLEY REX SYNDERGAARD, Ph.D.* *Professor*
A.B., Westminster College, 1940; A.M., Washington University, 1941; Ph.D., St. Louis University, 1951. (1956)

- GLENN HURON SEYMOUR, Ph.D. *Professor*
A.B., 1924, M.A., 1925, Ph.D., 1929, University of Illinois. (1929)
- 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 DILWORTH MINER, Ph.D. *Professor*
A.B., Knox College, 1936; A.M., 1948, Ph.D., 1950, Indiana University. (1950)
- DONALD FRED TINGLEY, Ph.D. *Professor*
B.S. in Ed., Eastern Illinois State College, 1947; A.M., 1948; Ph.D., 1952, University of Illinois. (1953)
- LAVERN MARSHALL HAMAND, Ph.D. *Professor*
B.S., Illinois Wesleyan University, 1940; M.A., 1947, Ph.D., 1949, University of Illinois. (1957)
- ROBERT WAYNE STERLING, M.S. in Ed. ... *Assistant Professor*
B.S. in Ed., 1951, M.S. in Ed., 1953, Eastern Illinois State College. (1956)
- 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)
- RICHARD E. BOYER, Ph.D. *Assistant Professor*
B.S. in Ed., 1954, M.A., 1957, Kirksville State Teachers College; Ph.D., University of Missouri, 1961. (1961)
- RICHARD E. OGLESBY, Ph.D. *Assistant Professor*
B.S., 1953, M.A., 1957, Ph.D., 1962, Northwestern University. (1961)
- ROBERT HENNINGS, Ph.D. *Assistant Professor*
A.B., Oberlin College, 1950; M.A., 1957, Ph.D., 1961, University of California (Berkeley). (1962)
- LAWRENCE NICHOLS, Ph.D. *Assistant Professor*
B.A., Wake Forest College, 1948; M.A., 1950, Ph.D., 1954, Duke University. (1962)
- DAVID J. MAURER, Ph.D. *Assistant Professor*
B.A., Beloit College, 1957; M.A., 1958, Ph.D., 1963, Ohio State University. (1962)
- GERALD PIERSON, M.S. in Ed. *Instructor*
B.S. in Ed., 1949, M.S. in Ed., 1955, Eastern Illinois State College. (1963)

LIBRARY SCIENCE

- ROSCOE F. SCHAUPP, Ph.D.* *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)
- FRANCES POLLARD, Ph.D. *Associate Professor*
B.S. in Ed., Alabama State College, 1941; M.L.S., 1949, Ph.D., 1963, Western Reserve University. (1963)
- RICHARD L. TAYLOR, M.S. in L.S. *Assistant Professor*
B.S. in Ed., Western Illinois University, 1952; M.S. in L.S., University of Illinois, 1954. (1961)

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; B.S. in Ed., 1933; A.M., 1938, Miami University; Ph.D., University of Michigan, 1950. (1950)
- D. FERREL ATKINS, Ph.D., Pd.D. *Professor*
B.S. in Ed., Eastern Illinois State Teachers College, 1945; M.S., University of Illinois, 1946; Ph.D., University of Kentucky, 1950; Pd.D., Eastern Illinois State College, 1956. (1958)
- ALPHONSO JOSEPH DIPIETRO, Ph.D. *Associate Professor*
B.A., West Liberty State College, 1947; M.S., West Virginia University, 1949; Ph.D., George Peabody College for Teachers, 1956. (1959)
- CHARLES E. PETTYPOOL, JR., M.A. *Assistant Professor*
B.S. in Ed., Eastern Illinois State College, 1953; M.A., The Ohio State University, 1956. (1957)
- DELMAR CRABILL, M.S. *Assistant Professor*
B.S., Manchester College, 1953; M.S., Purdue University, 1960. (1963)

- RUTH ERCKMANN, M.A. *Assistant Professor*
B.A., Morningside College, 1931; M.A., University of
South Dakota, 1932. (1963)
- LLOYD KOONTZ, M.A. *Assistant Professor*
B.S., Arkansas Polytechnic College, 1952; M.A., Univer-
sity of Arkansas, 1956. (1963)
- ROY A. MEYERHOLTZ, M.A. *Instructor*
B.S. in Ed., Oakland City College, 1958; M.A., University
of Illinois, 1961. (1961)
- RUTH S. QUEARY, M.S. in Ed. *Instructor*
B.S. in Ed., 1958, M.S. in Ed., 1961, Eastern Illinois
University. (1961)
- HAROLD MARKER, M.S. *Part-Time Instructor*
B.Ed., Eastern Illinois State Teachers College, 1934; M.S.,
University of Illinois, 1938. (1954)

PHILOSOPHY

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

PHYSICS

- GLENN QUENTIN LEFLER, Ph.D.* *Professor*
A.B., 1929, A.M., 1932, Ph.D., 1936, Indiana University.
(On sabbatical leave fall and winter quarters, 1963-64)
(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.** *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. *Professor*
A.B., 1943, Ph.D., 1951, Cornell University. (1953)
- WILLIAM M. CLOUD, Ph.D. *Associate Professor*
B.A., Southwestern College, 1947; M.S., 1949, Ph.D.,
1955, University of Wisconsin. (1962)

**Acting Department Head, Fall and Winter Quarters, 1963-64.

- ARNOLD JOHN HOFFMAN, M.S. *Assistant Professor*
B.S., Eureka College, 1930; M.S., University of Illinois,
1932. (1945)
- SNOWDEN L. EISENHOUR, Ph.D. *Assistant Professor*
B.A., Berea College, 1956; M.S., 1958, Ph.D., 1962, Uni-
versity of Illinois. (1961)
- MARVIN BREIG, Ph.D. *Assistant Professor*
B.S., Southeast Missouri State College, 1956; M.S., 1959,
Ph.D., 1963, University of Oklahoma. (1963)

PSYCHOLOGY

- DONALD ALLEN ROTHSCHILD, Ph.D.* *Professor*
A.B., 1924, M.A., 1927, University of Illinois; Ph.D.,
State University of Iowa, 1932. (1934)
- 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)

SOCIAL SCIENCES

Economics

- RAYMOND ARTHUR PLATH, Ph.D.* *Professor*
B.S., 1933, M.Ph., 1936, Ph.D., 1939, University of Wis-
consin. (1946)
- GLENN ALLAN MCCONKEY, Ph.D. *Professor*
B.S. in Ed., Illinois State Normal University, 1928;
A.M., 1936, Ph.D., 1949, State University of Iowa. (1958)
- AHMAD A. MURAD, Ph.D. *Assistant Professor*
B.A., Washington State University, 1956; M.S., 1960,
Ph.D., 1961, University of Wisconsin. (1963)
- JANET HOOKS, Ph.D. *Assistant Professor*
A.B., Mt. Holyoke College, 1933; M.A., Bryn Mawr,
1934; Ph.D., University of Illinois, 1960. (1963)

Political Science

CHARLES P. BEALL, Ph.D. *Associate Professor*
B.A., DePauw University, 1947; M.A., 1948, Ph.D., 1952,
Indiana University. (1963)

RICHARD J. BLOSS, Ph.D. *Associate Professor*
B.S., Rider College, 1949; M.A., 1951, Ph.D., 1960, Uni-
versity of Pennsylvania. (1963)

MARGARET SODERBERG, Ph.D. *Assistant Professor*
B.A., Marygrove College, 1954; M.S.L.S., Catholic Uni-
versity, 1957; M.A., Wayne State University, 1960;
Ph.D., Washington University, 1963. (1962)

Sociology - Anthropology

WILLIAM GERBING WOOD, Ph.D. *Professor*
A.B., Illinois Wesleyan University, 1927; A.M., 1933,
Ph.D., 1938, University of Illinois. (1938)

GEORGE TOMASHEVICH, Ph.D. *Associate Professor*
B.A., Roosevelt University, 1951; M.A., 1954, Ph.D.,
1957, University of Chicago. (On leave winter quarter)
(1963)¹

ROBERT C. TIMBLIN, M.A. *Assistant Professor*
B.A., 1946, M.A., 1947, University of Illinois; Graduate
Study, University of Illinois, 1958-60. (1960)

JOHN D. MCBRIDE, LL.B. *Substitute Assistant Professor*
A.B., 1953, LL.B., 1955, University of Kansas. (1964)

Off-Campus Coordinator

GERALD PIERSON, M.S. in Ed. *Instructor*
B.S. in Ed., 1949, M.S. in Ed., 1955, Eastern Illinois State
College. (1963)

SPEECH

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

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

¹Resigned February 29, 1964.

JON JAMES HOPKINS, Ph.D. *Associate Professor*
B.Ed., Northern Illinois State College, 1941; M.A., North-
western University, 1950; Ph.D., Pennsylvania State
University, 1961. (On sabbatical leave fall quarter, 1963-
64) (1956)

DONALD P. GARNER, Ph.D. *Associate Professor*
B.A., Harding College, 1951; M.A., Kent State Univer-
sity, 1953; Ph.D., Wayne State University, 1963. (1963)

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

DALE A. LEVEL, JR., Ph.D. *Assistant Professor*
B.S., Eastern Illinois University, 1954; M.S., 1956, Ph.D.,
1959, Purdue University. (1961)

RAYMOND J. SCHNEIDER, M.A. *Assistant Professor*
A.B., 1946, M.A., 1951, Loyola University; Graduate
Study, University of Michigan, 1956-61. (1961)

JIMMIE D. TRENT, M.S. *Assistant Professor*
B.S., 1955, M.S., 1959, Emporia State Teachers College.
(1962)

JANET NORBERG, Ph.D. *Assistant Professor*
B.A., Sioux Falls College, 1947; M.R.E., Southwestern
Baptist Theological Seminary, 1951; Ph.D., State Uni-
versity of Iowa, 1964. (1963)

AL G. RUNDLE, M.A. *Assistant Professor*
B.A., Northwestern State College, 1952; M.A., Univer-
sity of Denver, 1957. (1963)

ROBERT JONES, M.S. *Assistant Professor*
B.S., 1949, M.S., 1951, Indiana State College. (1963)

JOHN H. ROBERTSON, M.A. *Instructor*
B.A., College of Idaho, 1956; M.A., Western Michigan
University, 1963. (1962)

ANN E. SMITH, M.A. *Instructor*
B.A., Lincoln University, 1960; M.A., State University
of Iowa, 1962. (1962)

L. E. MINER, M.A. *Instructor*
B.A., 1961, M.A., 1963, Michigan State University.
(1963)

MILDRED S. HOFACKER, M.A. *Substitute Instructor*
B.A., Flora Stone Mather College, 1940; M.A., Western
Reserve University, 1941. (1950)

DIVISION OF LIFE SCIENCES

WALTER M. SCRUGGS, Ph.D. *Director*

BOTANY

KENNETH EUGENE DAMANN, Ph.D.* *Professor*
B.S., Kent State University, 1938; M.S., 1940, Ph.D., 1943,
Northwestern University. (1947)

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

DERRELL B. WHITE, Ph.D. *Assistant Professor*
B.A., 1952, M.S., 1958, Ph.D., 1961, State University of
Iowa. (1962)

JOHN EBINGER, Ph.D. *Assistant Professor*
A.B., Miami University, 1955; M.A., 1959, Ph.D., 1961,
Yale University. (1963)

OREN LACKEY, M.S. *Assistant Professor*
B.Ed., Eastern Illinois State Teachers College, 1937;
M.S., University of Illinois, 1947. (1963)

BARBARA KIECKHEFER BLACKMORE, Ph.D. *Instructor*
B.S., University of Wisconsin, 1959; M.S., 1961, Ph.D.,
1963, University of Illinois. (1963)

ZOOLOGY

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)

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

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

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

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

VERNE BURTON KNISKERN, Ph.D. *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)

DONALD A. JENNI, Ph.D. *Assistant Professor*
B.S., Oregon State University, 1953; M.S., Utah State
University, 1956; Ph.D., University of Florida, 1961.
(1962)

EUGENE KREHBIEL, Ph.D. *Assistant Professor*
B.S., Bethel College, 1957; M.S., 1961, Ph.D., 1963, Kan-
sas State University. (1963)

L. STEPHEN WHITLEY, Ph.D. *Assistant Professor*
B.S. in Ed., Eastern Illinois University, 1958; M.S., 1960,
Ph.D., 1963, Purdue University. (1963)

OREN LACKEY, M.S. *Assistant Professor*
B.Ed., Eastern Illinois State Teachers College, 1937;
M.S., University of Illinois, 1947. (1963)

WILLIAM ELLIOTT MCCAUL, M.S. *Instructor*
B.A., Western Michigan University, 1954; M.S., Univer-
sity of Illinois, 1956; Graduate Study, University of
Illinois, 1958-59. (1959)

JERVIS WINN WACASEY, Ph.D. *Instructor*
B.S., 1954, M.S., 1955, Texas Technological College;
Ph.D., Michigan State University, 1961. (1961)

FACULTY FOR PROFESSIONAL EDUCATION

MARTIN SCHAEFER, Ph.D. *Dean*ARTHUR USHER EDWARDS, Ph.D. *Professor*
A.B., Iowa State Teachers College, 1924; A.M., 1928,
Ph.D., 1932, State University of Iowa. (1937)F. RAYMOND MCKENNA, Ed.D. *Professor*
B.A., State Teachers College, North Dakota, 1934;
M.Mus., Northwestern University, 1939; M.Ed., 1951,
Ed.D., 1954, Harvard University. (1953)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)VERNE ALLEN STOCKMAN, Ed.D. *Professor*
B.S., 1928, M.A., 1931, Ed.D., 1952, Michigan State Col-
lege. (1955)HARRY JAMES MERIGIS, Ed.D. *Professor*
B.S. in Ed., State Teachers College, Plattsburg, New
York, 1947; Ed.D., University of Oklahoma, 1954. (1954)CURTIS RAY GARNER, Ed.D. *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
University of Iowa, 1955. (On leave fall quarter 1963-64)
(1955)WILLIAM J. CRANE, Ph.D. *Associate Professor*
B.A., University of Wisconsin, 1942; M.A., University of
Colorado, 1950; Ph.D., Yale University, 1952. (1961)CARL KEATING GREEN, Ed.D. *Associate Professor*
B.S., Billings Polytechnic Institute, 1942, M.S., 1948,
Ed.D., 1956, University of Houston. (1958)LAHRON SCHENKE, Ed.D. *Associate Professor*
B.S. in Ed., 1941, M.S., 1948, University of Wisconsin;
Ed.D., Teachers College, Columbia University, 1954.
(1963)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)JUANITA PRATER, Ed.S. *Assistant Professor*
B.S.E., University of Arkansas, 1942; M.A., 1949, Ed.S.,
1962, George Peabody College for Teachers. (1962)PAUL D. OVERTON, Ed.D. *Assistant Professor*
B.S. in Ed., 1950, M.S. in Ed., 1954, Western Illinois Uni-
versity; Ed.D., Colorado State College, 1960. (1962)

GUIDANCE AND COUNSELING

DONALD LEWIS MOLER, Ph.D.* *Professor*
B.S., Kansas State Teachers College, 1939; M.Ed., 1949,
Ph.D., 1951, University of Kansas. (1951)

OFF-CAMPUS COORDINATORS OF STUDENT TEACHING

JAMES HENRY ROBERTSON, Ed.D. *Associate 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)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. (On sabbatical leave 1963-64) (1948)CHARLES E. PETTYPOOL, JR., M.A. *Assistant Professor*
in Mathematics
B.S. in Ed., Eastern Illinois State College, 1953; M.A.,
The Ohio State University, 1956. (1957)REX EDWARD RAY, M.S. in Ed. *Assistant Professor*
in Industrial Arts
B.S., Murray State College, 1949; M.S., Southern Illinois
University, 1954. (On leave 1963-64) (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)
- CLIFFORD H. ERWIN, D.Ed. *Assistant Professor in Industrial Arts*
B.S. in Ed., Northern Illinois State College, 1950; M.A.,
Colorado State College of Education, 1951; D.Ed., Indiana University, 1963. (1956)
- ROLAND DEAN SPANIOL, M.S. in Ed. *Assistant Professor in Business*
B.S. in Ed., 1953, M.S. in Ed., 1956, Illinois State Normal University. (1960)
- OREN LACKEY, M.S. *Assistant Professor in Life Sciences*
B.Ed., Eastern Illinois State Teachers College, 1937;
M.S., University of Illinois, 1947. (1963)
- ROBERT JONES, M.S. *Assistant Professor in Speech and English*
B.S., 1949, M.S., 1951, Indiana State College. (1963)
- JANE LAHEY, M.S. Ed. *Instructor in Business*
B.S., 1947, M.S. Ed., 1950, University of Illinois. (1957)
- GEORGE W. WOODYARD, M.A. *Instructor in Foreign Language*
B.S. in Ed., Eastern Illinois State College, 1954; M.A.,
New Mexico State University, 1955. (On leave 1963-64)
(1961)
- ELAINE JORGENSEN, A.M. *Instructor in Home Economics*
A.B., 1957, A.M., 1961, Colorado State College. (1961)
- CARL S. EMMERICH, M.A. *Instructor in Art*
B.A., 1953, M.A., 1957, University of North Dakota.
(1962)
- JOHN H. ROBERTSON, M.A. *Instructor in Speech Correction*
B.A., College of Idaho, 1956; M.A., Western Michigan University, 1963. (1962)
- GERALD PIERSON, M.S. in Ed. *Instructor in History and Social Science*
B.S. in Ed., 1949, M.S. in Ed., 1955, Eastern Illinois State College. (1963)
- HELEN VANDEVENTER, M.S. in Ed. *Substitute Instructor in Foreign Language*
B.Ed., 1932, M.S. in Ed., 1947, Eastern Illinois State College. (1960)

- RONALD PAAP, A.M. *Substitute Instructor in Physical Education for Men*
B.S., Peru State Teachers College, 1955; A.M., Colorado State College, 1962. (1963)
- FRANCIS L. TELLER, M.A. *Substitute Assistant Professor in Physical Education for Men*
B.S. in Ed., Brockport State Teachers, 1956; M.A., Teachers College, Columbia University, 1958. (1963)
- LIBRARY
- ROSCOE FREDERICK SCHAUPP, Ph.D.* *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)
- FRANCES POLLARD, Ph.D. *Associate Professor*
B.S. in Ed., Alabama State College, 1941; M.L.S., 1949, Ph.D., 1963, Western Reserve University. (1963)
- 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.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)
- RICHARD L. TAYLOR, M.S. in L.S. *Assistant Professor*
B.S. in Ed., Western Illinois University, 1952; M.S. in L.S., University of Illinois, 1954. (1961)
- RAMESHWAR N. PAUL, A.M. *Assistant Professor*
A.B., Punjab University, 1950; A.M.L.S., 1959, A.M., 1960, University of Michigan. (1962)
- 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)
- JOHN MITCHELL CARTER, M.L.¹ *Instructor*
B.A., Millsaps College, 1959; M.L., Emory University, 1961. (1961)
- LESLIE ANDRE, M.A.L.S. *Instructor*
Pol. Sc.D., Royal Hungarian Franz-Josef University, 1940; M.A.L.S., Western Michigan University, 1962.

¹Resigned April 1, 1964.

SCHOOL OF BUSINESS

JAMES FRANCIS GIFFIN, Ph.D. *Director*

ACCOUNTING

WESLEY BALLSRUD, M.A. *Assistant Professor*
B.E., Wisconsin State College, 1946; M.A., State University of Iowa, 1954 (1964)

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

WALLACE EMERSON KELLY, M.S. *Instructor*
B.S. in Ed., Eastern Illinois University, 1958; M.S., University of Illinois, 1960. (1960)

MARILYN GOVER, M.B.A. *Instructor*
B.S., Louisiana State University, 1962; M.B.A., University of Arkansas, 1963. (1963)

BUSINESS EDUCATION AND SECRETARIAL STUDIES

GEORGE K. COOPER, Ph.D.* *Associate Professor*
B.Ed., Western Illinois University, 1942; M.B.A., Indiana University, 1951; Ph.D., University of Michigan, 1962. (1962)

RICHARD WILLIAM CAMBRIDGE, Ph.D. *Assistant Professor*
B.S., 1940, M.A., 1951, Ph.D., 1960, State University of Iowa. (1956)

ROLAND DEAN SPANIOL, M.S. in Ed. *Assistant Professor*
B.S. in Ed., 1953, M.S. in Ed., 1956, Illinois State Normal University. (1960)

THOMAS LOWELL ELLIOTT, M.A. *Instructor*
B.S., 1956, M.A., 1959, Ball State Teachers College. (1960)

JANE LAHEY, M.S.Ed. *Instructor*
B.S., 1947, M.S.Ed., 1950, University of Illinois. (1957)

MARTHA IRENE DREW, M.Ed. *Instructor*
B.S., 1956, M.Ed., 1958, University of Illinois. (1958)

MARY MARJORIE LANMAN, M.S. *Part-Time Instructor*
B.S. in Ed., Eastern Illinois State Teachers College, 1944; M.S., University of Illinois, 1952. (1963)

MANAGEMENT

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

BERTRAND PRESTON HOLLEY, M.A. *Assistant Professor*
A.B., Murray State College, Kentucky, 1944; M.A., Northwestern University, 1947; Graduate study, Northwestern University, 1951-52. (1946)

FRED ENDSLEY, M.B.A. *Assistant Professor*
B.A., Grinnell College, 1952; M.B.A., Indiana University, 1958. (1963)

MARKETING

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. (1949)

JAMES A. HALLAM, M.S. *Instructor*
B.S., 1953; M.S., 1955, Illinois State Normal University. (On sabbatical leave 1963-64.) (1958)

TIMOTHY GOVER, M.S. *Substitute Assistant Professor*
B.B.A., Southern Methodist University, 1960; M.S., University of Illinois, 1961. (1963)

SCHOOL OF ELEMENTARY AND JUNIOR HIGH SCHOOL TEACHING

HARRY J. MERIGIS, Ed.D. *Director*

LABORATORY SCHOOL

DONALD GEORGE GILL, M.Ed. *Assistant Professor
and Principal*
A.B., Illinois College, 1951; M.Ed., University of Illinois,
1955. (1960)

MARQUITA L. IRLAND, Ed.D. *Professor and Supervisor of
Home Economics*
B.S., 1942, M.A., 1947, Michigan State College; Ed.D.,
Wayne State University, 1956. (1960)

LOUISE MURRAY, Ph.D. *Associate Professor and
Junior High School Language
Arts—Social Studies Supervisor*
B.A., University of Toronto, 1945; M.A., Teachers Col-
lege, Columbia University, 1949; Ph.D., Northwestern
University, 1959. (1951)

JAMES HENRY ROBERTSON, Ed.D. *Associate 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)

LORENE ELIZABETH ZIEGLER, Ed.D. *Associate Professor
and Sixth Grade Supervisor*
B.Ed., Illinois State Normal University, 1942; M.A.,
Northwestern University, 1947; Ed.D., Columbia Uni-
versity, 1963. (1947)

FRED J. BOUKNIGHT, Ed.D. *Associate 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)

MILDRED DOLE MORGAN, M.A. *Assistant Professor and
Director of Guidance*
B.S., University of Illinois, 1929; M.A. Columbia Univer-
sity, 1934. (1946)

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
Junior High School Language
Arts—Social Studies Supervisor*
B.E., Wisconsin State College, Stevens Point, 1940; M.A.,
University of Wisconsin, 1953; Graduate Study, Univer-
sity of Wisconsin, 1953-55, 1961-62. (1955)

PHILLIP M. SETTLE, M.F.A. *Assistant Professor
and Supervisor of Art*
B.S. in Ed., Eastern Illinois State College, 1950; M.F.A.,
University of Illinois, 1953. (1957)

FRANCIS H. CRAIG, M.S. in Ed. *Assistant Professor and
Junior High School Mathematics—Science Supervisor*
B.S., 1951, M.S. in Ed., 1955, Southern Illinois Univer-
sity. (1957)

JOSEPH TURNER CONNELLY, M.Ed. *Assistant Professor
and Junior High School Language
Arts—Social Studies Supervisor*
B.A., University of Kansas, 1950; M.Ed., University of
Illinois, 1952. (1958)

RAYMOND GRIFFIN, M.S. in Ed. *Assistant Professor and
Supervisor of Industrial Arts*
B.S. in Ed., 1950, M.S. in Ed., 1954, Eastern Illinois State
College. (1958)

ANN ELIZABETH JACKSON, M.S. in Ed. *Assistant Professor
and First Grade Supervisor*
B.S., Kansas State College, 1941; M.S., Southern Illinois
University, 1954. (On sabbatical leave 1963-64) (1958)

JOSEPH EDWARD CAREY, M.Ed. *Assistant Professor
and Sixth Grade Supervisor*
B.A., 1950, M.Ed., 1953, University of Illinois. (On sab-
batical leave 1963-64) (1958)

N. GRETCHEN HIERONYMUS, M.A. *Assistant Professor and
Supervisor of Music*
B.A., State University of Iowa, 1950; M.A., University
of Illinois, 1954. (1960)

- FREDERICK W. MACLAREN, M.Ed. *Assistant Professor and Fifth Grade Supervisor*
B.S., State University Teachers College, Plattsburgh, New York, 1952; M.Ed., University of Oklahoma, 1957; Graduate Study, University of Oklahoma, 1957-60. (1961)
- MARY L. CARRICO, Adv.C. *Assistant Professor and Third Grade Supervisor*
B.S., Eastern Illinois State College, 1952; M.S., 1955, Adv.C., 1960, University of Illinois. (1963)
- EARL DOUGHTY, M.S. in Ed. *Assistant Professor and Fourth Grade Supervisor*
B.S. in Ed., 1953, M.S. in Ed., 1954, Southern Illinois University. (1963)
- DONALD ROGERS, M.S. *Assistant Professor and Junior High School Mathematics-Science Supervisor*
B.S., College of Emporia, 1955; M.S., Syracuse University, 1959. (1963)
- BETTY RUTH HARTBANK, M.S. *Instructor and Librarian*
B.S., 1954; M.S., 1955, University of Illinois. (1956)
- 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)
- LOTTIE LEACH LEEDS, M.S. *Instructor and Fourth Grade Supervisor*
B.S. in Ed., Eastern Illinois State College, 1940; M.S., Indiana State Teachers College, 1955. (1958)
- ANNA JANE ELLIS, M.A. *Instructor and Supervisor of Physical Education*
B.A., Ohio Wesleyan University, 1952; M.A., University of Michigan, 1960. (1960)
- JOSEPH E. DUNCAN, Ed.M. *Instructor and Junior High School Mathematics-Science Supervisor*
B.S. Sec. Ed., Oklahoma Baptist University, 1940; Ed.M., University of Oklahoma, 1953. (1961)
- HANNAH NEWGENT EADS, M.S. in Ed. *Instructor and Supervisor of Art*
B.S. in Ed., 1954, M.S. in Ed., 1957, Eastern Illinois University. (1961)
- ERMA B. NIELSEN, M.S. in Ed. *Instructor and Five Year Old Kindergarten Supervisor*
B.S. in Ed., 1954, M.S. in Ed., 1957, Western Illinois University. (1962)

- WILLIAM F. BUCKELLEW, M.S. *Instructor and Supervisor of Physical Education*
B.S., North Dakota State College, 1953; M.S., University of Illinois, 1954. (1962)
- HELEN M. MOODY, M.S. *Instructor and Supervisor of Physical Education*
B.S., University of Illinois, 1956; M.S., Springfield College, 1960. (1962)
- DALE DOWNS, Adv.C. *Instructor and Fifth Grade Supervisor*
B.S. in Ed., Eastern Illinois State College, 1956; Ed.M., 1961, Adv.C., 1963, University of Illinois. (1963)
- SYLVIA LONG, M.A. *Instructor and Third Grade Supervisor*
B.S., Central Michigan University, 1952; M.A., University of Michigan, 1959. (1963)
- LARIS STALKER, M.A. *Instructor and Second Grade Supervisor*
A.B., 1956, M.A., 1961, University of Michigan. (1963)
- TERRY H. HOWARD, M.S. *Instructor and Supervisor of Music*
B.S., Ithaca College, 1961; M.S., University of Illinois, 1963. (1964)
- DONALD L. MCKEE, B.S. in Ed. *Faculty Assistant and Supervisor of French*
B.S. in Ed., Eastern Illinois University, 1954. (1961)
- WALDO GRIGOROFF, M.S. in Ed. *Substitute Instructor and Sixth Grade Supervisor*
B.S. in Ed., Southern Illinois University, 1949; M.S. in Ed., University of Illinois, 1950. (1961)
- VIRGINIA S. ROUSE, B.S. in Ed. *Substitute Faculty Assistant and First Grade Supervisor*
B.S. in Ed., Eastern Illinois State College, 1947. (1960)
- ALICE J. SWICKARD, M.S. in Ed. *Part Time Instructor and Supervisor of Music*
B.S. in Ed., 1958, M.S. in Ed., 1959, Eastern Illinois University. (1959)
- RUTH ROY, B.A. *Part Time Faculty Assistant and Supervisor of Music*
B.A., Luther College, 1955. (1963)

SCHOOL OF MUSIC

LEO J. DVORAK, Ph.D.¹ *Director*

INSTRUMENTAL MUSIC

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)

DONALD CLARKE TODD, M.M. *Assistant Professor*
B.M., 1950, M.M., 1952, Northwestern University. (1957)

KEYBOARD

CATHERINE ANN SMITH, D. Mus.* *Associate Professor*
B.M., 1947, M.M., 1948, Indiana University; D. Mus.,
Florida State University, 1958. (1949)

ALAN RICHARD AULABAUGH, Ph.D. *Associate Professor*
B.M., 1948, M.M., 1950, Northwestern University; Ph.D.,
State University of Iowa, 1958. (1957)

MARY RUTH HARTMAN, M.M. *Instructor*
B.M., Indiana University, 1959; M.M., University of
Illinois, 1960. (1960)

MUSIC EDUCATION

J. ROBERT PENCE, Ed.D.* *Assistant Professor*
B.P.S.M., Indiana University, 1942; M.M.Ed., Oberlin
College, 1951; Ed.D., University of Illinois, 1962. (1951)

JAMES HENRY ROBERTSON, Ed.D. *Associate Professor*
B.S. in Ed., Southwest Missouri State Teachers College,
1944; M.A., University of Iowa, 1944; Ed.D., 1958,
University of Illinois. (1956)

FRED J. BOUKNIGHT, Ed.D. *Associate Professor*
A.B., Newberry College, 1940; M.M., Northwestern Uni-
versity, 1941; Ed.D., Teachers College, Columbia Univer-
sity, 1953. (1959)

N. GRETCHEN HIERONYMUS, M.A. *Instructor*
B.A., State University of Iowa, 1950; M.A., University
of Illinois, 1954. (1960)

EUGENE SCHWEITZER, M.M. *Assistant Professor*
B.M., University of Wisconsin, 1952; M.M., Westminster
Choir College, 1957. (1963)

ALICE J. SWICKARD, M.S. in Ed. *Part-Time Instructor*
B.S. in Ed., 1958, M.S. in Ed., 1959, Eastern Illinois Uni-
versity. (1959)

RUTH ROY, B.A. *Part Time Faculty Assistant*
B.A., Luther College, 1955. (1963)

VOCAL MUSIC

JOHN N. MAHARG, M.M.E.* *Assistant Professor*
B.M.E., Capital University, 1942; M.M.E., Oberlin Col-
lege, 1952. (On sabbatical leave 1963-64) (1958)

JUNE D. JOHNSON, M.M.** *Instructor*
B.S., Juilliard School of Music, 1949; M.M., University
of Kansas, 1950. (1960)

L. VALSON DAUGHERTY, M.M. *Substitute Assistant
Professor*
B.M., Westminster Choir College, 1957; M.M., North
Texas State College, 1959. (1963)

UNAFFILIATED DEPARTMENTS

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 SMITH, M.N. *Assistant
Professor*
B.Ed., Eastern Illinois State Teachers College, 1940;
M.N., Western Reserve University, 1946; Graduate
Study, University 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. (On sabbatical leave fall quarter, 1963-
64) (1958)

** Acting Chairman, 1963-64.

¹ Deceased, June 17, 1964.

GILBERT E. WILSON, M.A. *Substitute Assistant Professor*
B.S.Ed., Nebraska State Teachers College, Kearny, 1942;
M.A., State University of Iowa, 1948; Graduate Study,
Southern Illinois University, 1961-62. (1962)

HOME ECONOMICS

MARY RUTH SWOPE, Ed.D.* *Professor*
B.S., Winthrop College, 1940; M.S., Women's College,
University of North Carolina, 1945; Ed.D., Columbia
University, 1963. (1962)

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. *Assistant Professor*
B.S., 1937, M.S., 1954, University of Illinois. (1956)

MARY LEAH BOULDIN, M.S. *Assistant Professor*
B.S., University of Missouri, 1940; M.S. University of
Illinois, 1948. (1961)

ELAINE JORGENSEN, A.M. *Instructor*
A.B., 1957, A.M., 1961, Colorado State College. (1961)

INDUSTRIAL ARTS

WALTER ALLEN KLEHM, Ed.D.* *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, D.Ed. *Assistant Professor*
B.S. in Ed., Northern Illinois State College, 1950; M.A.,
Colorado State College of Education, 1951; D.Ed., Indi-
ana University, 1963. (1956)

REX EDWARD RAY, M.S. in Ed. *Assistant Professor*
B.S., Murray State College, 1949; M.S., Southern Illi-
nois University, 1954. (On leave 1963-64) (1956)

WAYNE D. COLEMAN, M.S. *Assistant Professor*
B.S., 1952, M.S., 1953, The Stout Institute. (On sabbati-
cal leave 1963-64) (1957)

RAYMOND GRIFFIN, M.S. in Ed. *Assistant Professor*
B.S. in Ed., 1950, M.S. in Ed., 1954, Eastern Illinois Uni-
versity. (1958)

ROBERT BATES THRALL, M.S. *Instructor*
B.Ed., Eastern Illinois State Teachers College, 1932;
M.S., University of Illinois, 1938. (1956)

GERALD NESTEL, M.S. in Ed. *Substitute Instructor*
B.S., Stout State College, 1962; M.S. in Ed., Southern
Illinois University, 1963. (1963)

PHYSICAL EDUCATION, MEN

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

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. *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. (On sabbatical leave 1963-64) (1948)

JOHN BERNARD HODAPP, Pe.D. *Assistant Professor*
B.S., Mankato State Teachers College, 1948; M.A., Uni-
versity 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)

RALPH A. KOHL, M.A. *Assistant Professor*
B.S. in Ed., 1949, M.A., 1952, University of Michigan.
(1957)

WALTER S. LOWELL, Ed.D. *Assistant Professor*
B.A., B.S., 1948, Western Michigan University; M.A.,
University of Michigan, 1953; Ed.D., Michigan State
University, 1962. (1961)

WILLIAM J. MCCABE, M.A. *Assistant Professor*
B.S., 1949, M.A., 1950, State University of Iowa. (1962)

ROBERT WILLIAM HUSSEY, M.A. *Assistant Professor*
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)

WILLIAM F. BUCKELLEW, M.S. *Instructor*
B.S., North Dakota State College, 1953; M.S., Univer-
sity of Illinois, 1954. (1962)

ROBERT J. EUDEIKIS, M.S. in Ed. *Instructor*
B.S. in Ed., 1954, M.S. in Ed., 1960, Illinois State Normal
University. (1962)

FRANCIS L. TELLER, M.A. *Substitute Assistant Professor*
B.S. in Ed., Brockport State Teachers, 1956; M.A.,
Teachers College, Columbia University, 1958. (1963)

RONALD PAAP, A.M. *Substitute Instructor*
B.S., Peru State Teachers College, 1955; A.M., Colorado
State College, 1962. (1963)

PHYSICAL EDUCATION, WOMEN

FLORENCE PRYBYLOWSKI, Ed.D.* *Associate Professor*
B.S., Wisconsin State College, LaCrosse, 1941; M.S.,
University of Michigan, 1944 ;Ed.D., Colorado State Col-
lege of Education, 1960. (1958)

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)

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 Uni-
versity, 1951-52. (1946)

MARTHA MARISE DAVES, Ed.D. *Assistant Professor*
B.S., Alabama College, 1944; M.A., New York University,
1946; Ed.D., New York University, 1964. (1955)

ANNA JANE ELLIS, M.A. *Instructor*
B.A., Ohio Wesleyan University, 1952; M.A., University
of Michigan, 1960. (1960)

LEE M. GAINES, M.Ed. *Instructor*
B.S., 1956, M.Ed., 1959, University of Illinois. (1961)

HELEN M. MOODY, M.S. *Instructor*
B.S., University of Illinois, 1956; M.S., Springfield Col-
lege, 1960. (1962)

SHARON TOMLINSON *Instructor*
B.S.Ed., Eastern Illinois University, 1960; M.A., New
York University, 1961. (1962)

LOIS JEAN RIGDEN, M.A. *Instructor*
B.S., Purdue University, 1958; M.A., Texas Woman's
University, 1960. (1963)

SANDRA MODISSETT, M.A. *Instructor*
B.S., Dickinson State College, 1956; M.A., Colorado
State College, 1961. (1963)

DONNA NEAL, M.A. *Instructor*
B.A., Nebraska State Teachers College, 1948; M.A.,
Texas Woman's University, 1960. (1963)

GAYLE GRAFF, M.A. *Instructor*
B.A., Wayne State University, 1960; M.A., University
of Michigan, 1963. (1964)

MARJORIE L. HODAPP, M.A. *Assistant Professor*
B.S., Mankato State College, 1947; M.A., University of
New Mexico, 1950. (1961)

HELEN KOONTZ, B.S. in Ed. *Part Time
Faculty Assistant*
B.S. in Ed., University of Oklahoma, 1963. (1963)

EMERITUS FACULTY

ROBERT G. BUZZARD, Ph.D.	<i>President Emeritus</i>
CHARLES H. COLEMAN, Ph.D.	<i>Professor Emeritus</i>
EDITH C. HAIGHT, Ph.D.	<i>Professor Emeritus</i>
HARRY L. METTER, Ph.D. ¹	<i>Professor Emeritus</i>
SADIE O. MORRIS, Ph.D.	<i>Professor Emeritus</i>
HANS C. OLSEN, Ph.D.	<i>Professor Emeritus</i>
EMMA REINHARDT, Ph.D.	<i>Professor Emeritus</i>
RUTH SCHMALHAUSEN, Ed.D.	<i>Professor Emeritus</i>
ERNEST L. STOVER, Ph.D.	<i>Professor Emeritus</i>
MARY J. BOOTH, B.L.S., Litt.D.	<i>Associate Professor and Librarian Emeritus</i>
MYRTLE ARNOLD, A.M.	<i>Assistant Professor Emeritus</i>
RUTH CARMAN, M.A.	<i>Assistant Professor Emeritus</i>
GILBERT T. CARSON, A.M.	<i>Assistant Professor Emeritus</i>
LEAH STEVENS CASTLE, S.M.	<i>Assistant Professor Emeritus</i>
LENA B. ELLINGTON, A.M.	<i>Assistant Professor Emeritus</i>
HARRIET LOVE HERSHEY, M.S.	<i>Assistant Professor Emeritus</i>
RUTH HOSTETLER, A.M.	<i>Assistant Professor Emeritus</i>
JESSIE M. HUNTER, M.A.	<i>Assistant Professor Emeritus</i>
FLORENCE E. REID, M.A.	<i>Assistant Professor Emeritus</i>
NANNILEE SAUNDERS, M.A.	<i>Assistant Professor Emeritus</i>
ETHEL HANSON STOVER, A.M.	<i>Assistant Professor Emeritus</i>
BLANCHE C. THOMAS	<i>Registrar Emeritus</i>
RAYMOND R. GREGG, A.M.	<i>Director of Business Services Emeritus</i>

DISABILITY LEAVE

BRYAN HEISE, Ph.D.	<i>Professor</i>
J. GLENN ROSS, Ph.D.	<i>Professor</i>
ICA MARKS, M.S.	<i>Assistant Professor</i>
ROBERTA L. POOS, A.M.	<i>Assistant Professor</i>

FACULTY ASSISTANTS

AUDREY FEDOR, A.B.	<i>Library</i>
LUTHER R. GIBSON, B.S. in Ed.	<i>Physics</i>
MARY B. SHULL, M.M.	<i>Women's Physical Education</i>
ADRIANNE THORNBURGH, A.B.	<i>Library</i>
CHARLES TUCKER, B.S. in Ed.	<i>Chemistry</i>

¹Deceased June 6, 1964.

GRADUATE ASSISTANTS

BURTON M. BERKSON, B.S.	<i>Botany</i>
GARLAND BRYAN, B.Ed.	<i>Textbook Library</i>
LUCILLE H. BUSH, B.S.	<i>Residence Hall</i>
PHILIP D. CARLOCK, B.S. in Ed. ¹	<i>Audio-Visual Center</i>
RONALD E. CREEK, B.S. in Ed.	<i>Physical Education for Men</i>
CHARLES M. DAVID, B.S. ²	<i>Student Publications</i>
DWIGHT O. DOUGLAS, B.S. in Ed.	<i>Counseling Center</i>
GEORGE L. FIELDING, B.S. in Ed.	<i>Residence Hall</i>
EDWARD H. FREEMAN, B.S. in Ed.	<i>School of Business</i>
RICHARD D. FULK, B.S. in Ed.	<i>Physical Education</i>
RONALD T. HARPER, B.S. in Ed.	<i>Faculty for Professional Education</i>
LAWRENCE R. HART, B.S. in Ed.	<i>Speech</i>
FRED L. HATTABAUGH, B.S. in Ed.	<i>Testing Services</i>
RALPH J. HEMANN, B.S. in Ed.	<i>Industrial Arts</i>
LESTER T. HUTTON, B.A.	<i>Security</i>
CAROLE ANN INGRAM, B.S. in Ed.	<i>School of Music</i>
MEI-EIN JAW, B.A.	<i>Laboratory School</i>
NORMA R. JOHNSON, B.S. in Ed. ³	<i>Library</i>
DANIEL L. KELLY, B.S. in Ed.	<i>Physical Education for Men</i>
THERESE M. KUZLIK, B.S.	<i>Residence Hall</i>
SUELLYN LINDSEY, B.S. in Ed.	<i>School of Music</i>
PHILLIP T. LORENC, B.S.	<i>Physical Education for Men</i>
LOIS A. LOVELAND, B.S.	<i>Physical Education for Women</i>
JOHN W. MCFADDEN, B.S. in Ed.	<i>School of Music</i>
SANDRA K. MOORE, B.S. in Ed. ⁴	<i>Reading Clinic</i>
SANDRA OAKLEY, B.S. in Ed.	<i>Food Services</i>
ERIK J. PEDERSEN, B.S. in Ed. ⁵	<i>Physical Education for Men</i>
PEGGY ANN POOL, B.S. in Ed.	<i>Laboratory School</i>

¹Resigned February 29, 1964.²Beginning winter quarter.³Resigned January 17, 1964.⁴Beginning winter quarter.⁵Beginning winter quarter.

ROGER L. PSCHERER, B.S.⁶ *Audio-Visual Center*
 MICHAEL E. REYNOLDS, B.S. in Ed. *Art*
 LAWRENCE ROLAND, B.S. in Ed.⁷ *University Union*
 PAUL C. RUSK, B.S. in Ed. *Audio-Visual Center*
 JAMES D. SARVER, B.S. in Ed.⁸ *Speech*
 GEORGE L. STONE, B.S. in Ed. *Library*
 WILMA TIPSWORD, B.S. in Ed.⁹ *Art*
 WILMA TIPSWORD, B.S. in Ed.¹⁰ *Library*
 DONNIE TOLLIVER, B.S. in Ed. *Audio-Visual Center*
 JOSEPH D. WARNELIS, B.S. in Ed. *Residence Hall*
 LARRY D. WECK, B.S. in Ed. *Laboratory School*
 MARTHA G. WELDON, B.S. in Ed.¹¹ *Physical Education
for Women*
 CHARLES E. WOMACK, A.B. *Geography*
 LESLIE L. WOTHKE, B.S. *Physical Education for Men*

⁶Beginning spring quarter.⁷Beginning winter quarter.⁸Resigned January 1, 1964.⁹For the fall quarter.¹⁰Beginning January 18, 1964.¹¹Beginning winter quarter.

Cooperating Teachers and Administrators
Eastern Illinois University—Student Teaching Program
School Year, 1963-64

ABL HIGH SCHOOL (BROADLANDS)

Fred O. Bohn, Superintendent Clyde McKinney
 David L. McQueen, Principal

ALTAMONT HIGH SCHOOL

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

ARCOLA HIGH SCHOOL

Leon R. Sitter, Adv. Degree, Walter Forsyth, M.S.,
 Superintendent Principal
 Carroll Dunn, M.S.

ARTHUR HIGH SCHOOL

R. R. Wilson, Superintendent Francis Baker, M.S.
 & Principal

CASEY COMMUNITY UNIT HIGH SCHOOL

Fred A. Dale, M.S., Violet Davis, B.S.
 Superintendent Ralph Fitch, M.A.
 Forrest L. Wildman, M.A.,
 Principal

CHAMPAIGN SENIOR HIGH SCHOOL

E. H. Mellon, Superintendent Fred Attebury, M.A.
 Clint R. Kelly, Principal

FRANKLIN ELEMENTARY (CHARLESTON)

Charles R. Dintelman, M.S., Stella Boldrey, M.S.
 Superintendent Helen Kimball, B.S.
 Wayne Seeley, B.S., Principal

JEFFERSON SCHOOL (CHARLESTON)

John A. Dively, M.Ed., Charlotte Rhoden, B.S.
 Principal Wanda Ruyle, M.Ed.
 Evelyn Ambrose, B.S.

LINCOLN ELEMENTARY (CHARLESTON)

Wayne Seeley, B.S., Principal Stella Foreman, M.S.
Elizabeth Alter, M.S.

CHARLESTON COMMUNITY UNIT HIGH

Marvin Smith, M.Ed., Principal Betty Johnson, B.Ed.
Mervin Baker, M.S. Willa Lane, M.S.
John Balgenorth, B.S. Iris Peterka, B.A.
Eloise Buffenmeyer, B.S. Pierce Pickens, M.S.
Ralph Coleman, M.M. Glendora Plath, B.S.
Charles Compton, M.S. Lillian Robertson, B.S.
Donald Decker, M.S. Norman Strader, M.S.
Paul Foreman, M.S. Harry White, M.S.
Viola Hallock, M.S. Nellie Wiseman, B.S.
Harold Hankins, B.S. Frank Wood, B.S.
Mary Hoffman, M.S.

E. PARK JUNIOR HIGH (DANVILLE)

Conan Edwards, M.S., James O. Yeazel, M.S.,
Superintendent Principal
Elizabeth Norwood, M.Ed.

N. RIDGE JUNIOR HIGH (DANVILLE)

Roger B. Marcum, Principal Barbara Todd, B.Ed.

DANVILLE COMMUNITY CONSOLIDATED HIGH SCHOOL

E. D. Milhon, M.S., Principal Helen Freeman, M.S.
Gladys Beatty, M.A. Robert Griggs, M.S.
Christobel Bock, M.S. Duane Hall, M.Ed.
Billie Byers, M.Ed. Helen Hofmann, A.M.
Loretta Dugas, M.S. John Sanders, M.S.

DECATUR PUBLIC SCHOOLS

Lester J. Grant, M.A., Mary Jane Eshleman
Superintendent Marilyn Gaines
Norman Gore, M.A.,
Assistant Superintendent

ROOSEVELT JUNIOR HIGH (DECATUR)

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

JOHNS HILL JUNIOR HIGH SCHOOL (DECATUR)

L. Vern Kellar, Principal Don Gibler, M.A.

EISENHOWER HIGH SCHOOL (DECATUR)

Murvil Barnes, M.S., Principal Wilford Hudson, M.A.
Audrey Bower, M.A. Earl Lawrence, M.S.
Edward Bright, A.M. Kathryn Minto, M.A.
Marilyn Casorotti, M.S. Helen Piggott, B.A.
Charles Clark, M.S. Joe Russell, M.A.
Donald Diller Robert Scherer, M.S.
H. L. Ferris, M.S. Donald Schwalbe, M.S.
Clete Hinton, M.A. Otis Vaughn, M.S.
William R. Houser, B.S. Eugene Young, M.A.

LAKEVIEW HIGH SCHOOL (DECATUR)

William W. Fromm, M.A., L. K. Philbrook, M.A.
Principal Joan Smith, B.S.
Ron Abel, M.A. Margaret Weaver, M.S.
David Brown, B.S. Paul Wertz, B.S.
Edward Meyer, M.S. Ron Wisher, B.S.
Harold Petty, M.E.

MacARTHUR HIGH SCHOOL (DECATUR)

Lyle K. Music, M.A., Principal Earl S. Rudolph, M.S.
Dionne Carlson, B.S. Lawrence Rueff, M.S.
Robert Henderson, M.A. Mabel Rutherford, M.A.
Geraldine Hodson, M.A. Ida Shapiro, B.S.
Andrew Meurlot, M.A. Robert Turner

STEPHEN DECATUR HIGH SCHOOL (DECATUR)

Edward A. Martin, M.A., F. Jack Kenny, B.S.
Principal Edna Meadows, M.A.
Justine Bleeks, M.A. Helen Schottman, M.S.
Mildred Connell, B.Ed. Vern Thistlethwaite, B.S.
Olive Hewett, A.B. Marjorie Wilson
Virginia Huff, B.S.

CENTRAL SCHOOL (EFFINGHAM)

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

EFFINGHAM COMMUNITY UNIT HIGH SCHOOL

Harold E. Voyles, M.S., Patricia Frese, B.S.
Principal Joe Green, M.A.
B. Brad Arney, M.S. Monte Groothuis, B.S.
Don Deterding, B.S. Jack Klosterman, B.S.
Charles Evans, B.A. William Morgan, M.A.

KANSAS HIGH SCHOOL

Eldred Walton, M.S., Superintendent	Howard Eades, B.S.
Robert Evans, M.S., Principal	Robert Evans, M.S.
Tressa Bennett, M.S.	Janet Holley, B.S.

LAWRENCEVILLE COMMUNITY HIGH SCHOOL

Hugh Dollahan, M.A., Superintendent & Principal	Paula Nossett, M.S.
Mary Christmas, B.S.	Kenneth Pritchett, M.S.
Charles Gillespie, B.S.	Dorothy Provines, B.S.
Kenneth Hardway, B.S.	Samuel Slagel, M.S.
Dan Hockman, M.S.	Rolland C. Wagner, M.S.
Arthur Hortin, M.A.	Woodrow Wesley, M.S.
Robert McCarty, M.S.	Leslie Wright, M.S.

LOVINGTON HIGH SCHOOL

A. E. Best, Superintendent	Grace Eskridge, M.S.
John Zancha, Principal	Ella Stephenson, B.S.
Lawrence Allen, M.S.	

MARSHALL COMMUNITY UNIT HIGH SCHOOL

Charles A. Bush, M.S., Superintendent	Wilma Geisert, M.S.
E. J. Harrington, M.S., Principal	Robert Graham, B.S.
Mildred R. Bush, M.S.	Mildred Hutchens, M.S.
Charles Crumrin, M.S.	Jackie Legan, M.A.
Marilyn Flowers, B.S.	Ralph Marshall, M.A.
	Robert F. Morris, M.S.
	Priscilla Wieck, M.A.

BENNETT SCHOOL (MATTOON)

Peter F. Genta, Principal	Opal Naab, M.Ed.
Phyllis Lape, B.S.	

HAWTHORNE SCHOOL (MATTOON)

Howard Greer, Principal	Virginia Piland, M.S.
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LINCOLN SCHOOL (MATTOON)

Vaughn Woodall, Principal	Thomas Ulmer, M.S.
Ruth Gilbert, M.S.	

LOWELL SCHOOL (MATTOON)

Ralph Ohm, Principal	Lois Baker, M.S.
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WASHINGTON SCHOOL (MATTOON)

Andrew Zupka, Principal	Dorothy Moran, M.S.
Sue Scott, M.S.	

CENTRAL JUNIOR HIGH (MATTOON)

Virgil H. Judge, M.A., Superintendent	Robert L. Cavitt, M.S., Principal
	Marianne Doyle, B.S.

JEFFERSON JUNIOR HIGH SCHOOL (MATTOON)

Fred Hash, Adv. Cert. in Ed., Principal	Helen Monroe, B.S.
William Brandvold, M.S.	John Morris, B.S.
Edna Kizer, B.S.	Doris Rhodes, B.S.
Bert Landes, B.S.	Carolyn Rockabrand, M.A.
	Margaret Podesta

MATTOON COMMUNITY UNIT HIGH SCHOOL

Roy E. Sheppard, Adv. Cert. in Ed., Principal	Edward Lash, M.S.
Bonnie Barnett, B.S.	Rosemary McCowen, M.S.
Don Batts	Betty Morris, M.S.
Florine Bowman, M.A.	Howard Nelms, M.S.
Paula Coker, B.S.	Charles Oyler, B.S.
Dorothy Cooper, B.S.	Thomas Parker, B.A.
Charles Crites, M.S.	Katheryn Robertson, M.S.
Harry Gaines, B.S.	Robert Sink, B.S.E.
Don Grewell	Emily Smith, M.A.
Velta Goodfellow, A.B.	Walter Storm, M.S.
Obed Henderson, M.S.	Clark Sullivan, M.A.
Howard Johnson, M.S.	Marguerite Turner, B.S.
Harold Kottwitz, M.S.	Duane Welton, B.S.
	Grace Whitesel, M.A.

MONTICELLO COMMUNITY UNIT HIGH SCHOOL

Dwight E. Wilkey, M.S., Superintendent	Frank Mula, M.A.
Donald L. Pratt, M.S., Principal	Patricia Shepard, M.A.
	Tom Young, M.S.

MOWEAQUA COMMUNITY HIGH SCHOOL

M. J. Corby, M.S., Superintendent	Thomas Boyd, M.S.
M. W. Deibert, M.S., Principal	Robert Lawton, M.Ed.

NEOGA JUNIOR HIGH SCHOOL

Louis K. Voris, M.S., Superintendent	John H. Manuell, M.S., Principal
	Virginia Parrett, B.S.

NEOGA COMMUNITY UNIT HIGH SCHOOL

Ralph R. White, M.S., Principal	Howard Louthan, B.S.
John Luallen, B.S.	Willie Oakley, M.S.
	Agnes Voris, B.S.

NEWTON COMMUNITY HIGH SCHOOL

Harold Raymond, M.A., Superintendent & Principal	Emery Gifford, M.A.
Jewell Bauman, B.S.	Marie Green, M.A.
Frank Chizevsky, A.B.	Dale Robinson, M.S.
James M. Doerr, M.A.	Ariel Stuckey, B.S.
Norma Eaton, L.L.B.	Rose Sunderland, B.S.
Albert Fehrenbacher, B.S.	Virginia Watkins, B.S.
	Maurice Walworth, M.A.

OBLONG HIGH SCHOOL

Harry E. Prather, Superintendent & Principal	Emily Price, M.A.
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CENTRAL ELEMENTARY (OLNEY)

Leslie E. Purdy, M.A., Superintendent	Thurl Williamson, M.S., Principal
	Thurl Williamson, M.S.

EAST CHERRY ELEMENTARY (OLNEY)

Leo Galbreath, B.S., Principal	Leo Galbreath, B.S.
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NORTH SILVER ELEMENTARY (OLNEY)

James Rue, M.Ed., Principal	James Rue, M.Ed.
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EAST RICHLAND HIGH SCHOOL (OLNEY)

Gail Lathrop, M.S., Principal	James A. McWilliams, M.S.
Robert W. Akes, M.S.	Doris Mounts, B.A.
Mary L. Downen, M.S.	Marshall Provines, M.S.
Frank Godeke, M.A.	Ilene Ridgely, M.S.
Margaret Griffin, M.A.	John Scanavino, M.S.
Ronald Herrin, M.S.	Leo Silva, M.A.
Dolly McFarland, M.S.	Mary Silva, M.S.

CRESTWOOD SCHOOL (PARIS)

Paul Keehner, Superintendent & Principal	Luella Judy
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PARIS HIGH SCHOOL

John Stabler, M.S., Superintendent	Charles Johnson, M.S.
John P. Allen, M.S., Principal	Norma Kerrick, M.S.
Louise Honnald, B.Ed.	Carrie Shutzbaugh, A.B.

ROBINSON COMMUNITY UNIT HIGH SCHOOL

Forest H. Shoulders, M.S., Superintendent	Ronald Leathers, B.S.
Carl E. House, M.S., Principal	Shirley Marsh, B.S.
Victor Brough, M.A.	Cletis Underwood, M.S.E.
	Clara Whisennand, M.A.

RIDGEFARM HIGH SCHOOL

Pearl Parke, Superintendent & Principal	Thomas Jenkins, M.S.
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SHELBYVILLE COMMUNITY UNIT HIGH SCHOOL

J. C. Deaton, M.S., Superintendent	Alice Crouch, M.S.
C. R. Fegley, M.S., Principal	John Middlesworth, M.S.
Leonard Burt, M.S.	Mervin W. Smart, M.S.

SULLIVAN JUNIOR HIGH SCHOOL

Marvin Rice, M.S., Superintendent	Loren Jenne, M.S., Principal
	Ruth Gammill, B.S.

SULLIVAN COMMUNITY UNIT HIGH SCHOOL

James Brandon, M.S., Principal	Douglas Schimp, M.S.
Robert Calvin, B.S.	Robert Sullivan, M.A.
Donald Garren, M.S.	Lynn Swango, M.S.
J. Harold Jones, M.A.	Ernie Waren, M.S.
Robert Ozier, B.S.	

TAYLORVILLE COMMUNITY UNIT HIGH SCHOOL

Forest L. DeWeese, M.S., Superintendent	Assunta Teodori, M.A.
William Powell, Principal	Ralph Thornton, M.A.
Phil Martin, Ed.M.	Herbert A. Schotz, M.S.
Larry Freidricks	John Wilson, M.S.
	Martha Zimmerman, M.S.

CUMBERLAND UNIT HIGH SCHOOL (TOLEDO)

Merrill O. Moore, M.S., Superintendent	Sara Buchanan, M.S.
Harold E. Garner, M.S., Principal	Carolyn Glasson, M.A.
	Emily Manuell, B.S.
	Kenneth Winkler, M.S.

UNITY SENIOR HIGH SCHOOL (TOLONO)

Kenneth Roelling, Ed.M., Superintendent	Robert Aimone, Ed.M. Eric Brumett
Clovis Wallis, Ed.M., Principal	Joe B. Somerville, B.S.

TUSCOLA COMMUNITY UNIT HIGH SCHOOL

L. H. Mann, M.S., Superintendent	Dorothy Lionberger, B.S. Warren Lionberger, M.Ed.
Jack Robertson, Principal	Alberta Magnusson, A.M.
Darrell Brown, B.S.	G. E. Maloney, B.S.
William Butkovich, M.S.	

VANDALIA HIGH SCHOOL

G. V. Blythe, M.S., Superintendent	Helen Barr, M.A. Russell Hewitt, M.S.
William E. Wells, M.A., Principal	William Rademacher, M.A. Donald Snyder, B.S.

VILLA GROVE HIGH SCHOOL

Gerald Gaines, M.S., Superintendent	Glen Hardin, M.S. Wayne Raeske, M.Ed.
Bill Crum, M.S., Principal	Kenneth Tucker, M.S.
Pat Carr, M.A.	Leslie Wolfe, M.S.
Russell Ghare, M.S.	

WINDSOR COMMUNITY UNIT HIGH SCHOOL

J. Russell Curry, M.S., Superintendent	Nona Belle Keller, B.Ed. Emily Marsland, B.S.
Orris A. Seng, M.S., Principal	Glen Thompson, M.Ed.
Robert Buchanan, M.S.	

LOWE SCHOOL (SULLIVAN)

Marvin Rice, M.S., Superintendent	Ogreata Morgan, M.S. Mildred Vice, M.S.
Dennis Cougill, Principal	

VILLA GROVE ELEMENTARY

Gerald G. Gaines, M.S., Superintendent	Albert J. Wiman, Principal Isabelle Jones, M.Ed.
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I. GENERAL INFORMATION

FUNCTION

All programs of instruction at Eastern Illinois University are designed to help young people become educated persons. Curricula leading to the B.S. in Education degree and the M.S. in Education degree are provided for the preparation of teachers. Curricula leading to the B.S., B.A., and M.A. degrees provide a liberal arts education suitable for persons preparing for a variety of professions and occupations. Several preprofessional programs of varying length are offered for students who wish to attend Eastern before entering a professional or technical program elsewhere.

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. Highway 16 (four lanes) connects 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.

In 1961 the Teachers College Board approved the establishment of curricula leading to the degrees of Master of Arts and Master of Science.

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). The main building houses administrative offices, classrooms for the School of Business, and the English, foreign language and mathematics departments, and the library reserve room.

Pemberton Hall. The 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 was completed in 1962.

Francis G. Blair Hall. This building is occupied by the Faculty for Professional Education and the departments of history and social science and by the audio-visual center.

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, and rooms for corrective gymnastics and the dance.

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

Life Science Building. Completed in 1963, this building contains the departments of botany and zoology. An annex will be finished this fall. It will house the health education department.

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 the late 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 Department of Music, Speech and Art, was completed in 1959. The building contains a "little theatre," numerous practice and rehearsal rooms for music, and studios and laboratories for the art and speech departments.

Andrews Hall. Named in memory of Franklyn Andrews, former student publications adviser, the hall houses 480 women. It will open in September, 1964.

Clinical Services Building. This structure will be used for the first time in September, 1964. It will house the health service, testing center, reading, speech and hearing clinics, and counseling center.

Buzzard House. The former home of Eastern's second president houses the Assistant Dean of Students, Director of Financial Aids, and Security Chief offices.

ORGANIZATION OF THE UNIVERSITY

Eastern Illinois University is one of four state universities under the general jurisdiction of the Teachers College Board of Illinois. The internal organization at Eastern consists of two major divisions—instruction and administration.

Included within the instructional division are the instructional services (library, audio-visual center) and the various instructional units. Major instructional units are the College of Letters and Science, School of Elementary and Junior High School Teaching, School of Business, School of Music, School of Health and Physical Education, Graduate School, and the Faculty for Professional Education. Approval has been given for the establishment, within the next few years, of a School of Industrial Arts and Technology, and a School of Home Economics, both from presently unaffiliated departments. The administrative division includes student academic services, student personnel services, and business services.

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 and a graduate term of eight weeks. Field study courses and off-campus workshops of three weeks duration are held at various times.

II. STUDENT LIFE AND ACTIVITIES

LIVING ACCOMMODATIONS

Single students under the age of 21 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 Dean of Women or Dean of Men. It is understood that when a student contracts for accommodations in a residence hall, university apartment, or registered housing, he or she agrees to comply with the rules and regulations governing those living units as well as the rules and regulations for all university students.

RESIDENCE HALLS. Applications for accommodations in the university residence halls may be made to the Dean of Women or Dean of Men prior to being accepted for admission to the University. Students are encouraged to apply for housing at an early date. Eastern residence halls and the number accommodated are as follows:

WOMEN		MEN	
Andrews Hall	480	Douglas Hall	161
Ford Hall	152	Lincoln Hall	161
McKinney Hall	150	Thomas Hall	438
Pemberton Hall	201		
Weller Hall	152		

Further information relative to cost of room and board and the housing security deposit which must accompany the application may be found on Pages 74 and 75 of this bulletin.

REGISTERED HOUSING. A registered house is a home in the community which has been approved as meeting the standards set by the University. A list of vacancies in registered housing is maintained in the Offices of the Dean of Women and Dean of Men for the convenience of the student seeking off-campus housing. The student is responsible for making arrangements with the householder for a room in the community; however, a signed agreement between the householder and student is required by the University.

MARRIED STUDENT HOUSING. 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, chair, 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 housing security deposit is required of all tenants housed 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.

Applications for the University Apartments may be secured from the Director of Married Student Housing.

Married students desiring to live in university-registered off-campus housing may secure a rental list at the office of the Director of Married Student Housing.

SERVICES TO STUDENTS

HEALTH SERVICE. The Health Service is located in the Clinical Services Building. It renders limited 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 sickness and accident insurance which supplements and complements medical care provided by the Health Service.

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 Director of Financial Aids receives applications for part-time employment and assists students in finding work at the University and in the city. Student employment is contingent upon maintenance of satisfactory academic standing.

PLACEMENT OFFICE. Registration or re-registration with the Placement Office is prerequisite to graduation for all degree candidates. The Placement Office 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. It also maintains a follow-up service through a program of visits and by means of reports from teachers themselves as well as from supervising officials of schools in which Eastern's graduates have been placed. 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 degree at Eastern may register with the Placement Office after attending for one term. Alumni may re-register upon payment of a fee of \$1.00.

INDUSTRIAL AND BUSINESS PLACEMENT SERVICES are available to B.A. and B.S. degree candidates in securing positions for which they are qualified. The Placement Office furnishes to prospective employers the candidate's credentials and renders other services fundamental to the selection of career employees.

READING CLINIC. The Reading Clinic offers non-credit courses in speed reading designed to improve speed, comprehension, and general study habits. These courses are offered each quarter of the academic year. Classes meet at various times during the day so that each student may choose a section which meets at an hour convenient to him. Courses are free to all regularly enrolled students. Materials used in the courses are furnished without charge. Application for admission to one of the programs should be made early in the quarter at the Reading Clinic office on the second floor of the Clinical Services Building.

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.

SPEECH AND HEARING CLINIC. The Speech and Hearing Clinic is housed on the second floor of the Clinical Services Building. Modern equipment is available to assist in testing of hearing, evaluation of hearing aids, and improvements 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 courses of speech and hearing obtain their required clinical practice by working with these people under supervision.

COUNSELING CENTER. The Counseling Center is located in the Clinical Services Building and is staffed by professionally educated counselors who assist university students in matters pertaining to vocational choice, personal and social adjustment, and educational development. Limited psychological services are also available through the university Counseling Center.

TESTING SERVICES. Testing and consultive 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 also 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 125,000 volumes, plus over 4,000 cataloged items in the record music collection. These figures do not include a substantial number of uncataloged pamphlets, pictures and prints. The library is an official depository for federal documents and also receives currently over 1,000 different periodicals. A Browsing Room for general reading is provided; the Music Listening Room, with its store of classical and popular records, is open on regular schedule to students and there are frequent exhibitions of paintings and craft work in the Paul Turner Sargent Art Gallery. The Library Science department has as its primary function the preparation of school librarians. 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. Orders for rental films usually take three weeks. Preview services are available on a limited basis. Slides, transparencies, photographic copies, and other 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 as cultural entertainment individuals and groups of national reputation in music, theatre, and the dance.

A student-faculty Artists Series Board arranges and executes the series, keeping in mind the preferences and educational needs of students. Students gain admission by presenting a properly validated ID card. Faculty and area residents may purchase individual or series tickets.

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 composed of faculty and students. Various departments also engage lecturers in their fields of specialized interest. No admission fee is charged.

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. Many of these activities are carried on by campus organizations; 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.

NEW-STUDENT ORIENTATION. A period preceding upper-class registration each 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 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 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 Service 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

Accounting Club
Amateur Radio Club
Ahmoweenah Writers
Botany Club
English Club
French Club
German Club
History Club
Home Economics Club
Industrial Arts Club
Management Forum
Marketing Club
Mathematics Club
Men's Physical Education Majors Club
Music Education Club
Student Affiliate Section, American Chemical Society
Student Section of The American Institute of Physics
Players
Pre-Medical Association
Readers' Theatre Guild
Russian Club
Secretarial Club
Spanish Club
University Council for the United Nations
Women's Physical Education Club
Zoology Seminar

MUSIC ORGANIZATIONS

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

RELIGIOUS ORGANIZATIONS

Baptist Student Union
Canterbury Association
Christian Science Fellowship
Council of Human Relations
EUB and Friends
Gamma Delta
Hillel Foundation
Inter-Varsity Campus Fellowship
Newman Club
Pakistan Student Association
Roger Williams Fellowship

Student Religious Council
United Campus Christian Fellowship
Wesley Foundation

ATHLETIC ORGANIZATIONS

Varsity Club
Women's Athletic Association

RESIDENCE HALL COUNCILS

Andrews Hall Council
Douglas Hall Council
Ford Hall Council
Lincoln Hall Council
McKinney Hall Council
Pemberton Hall Council
Thomas Hall Council
University Apartments Council
Weller Hall Council

SERVICE ORGANIZATIONS

Alpha Phi Omega

SPECIAL GROUPS

Association for Childhood Education
Association of International Students
Interdepartmental Forum
Student Education Association
Student Wives' Organization
Young Democrats
Young Republicans

SOCIAL FRATERNITIES. The seven 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.

Delta Sigma Phi. Delta Psi Chapter of this national social fraternity was installed May 5, 1963. The group was established on May 17, 1961 as a colony.

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

Pi Kappa Alpha. Zeta Gamma Chapter of this national social fraternity was officially chartered April 12, 1964. Previously the organization had been a local fraternity known as Chi Nu.

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 five 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.

Kappa Delta. Delta Beta Chapter, a national sorority, was installed May 9, 1964 with the members of Theta Pi, 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.

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.

Phi Epsilon Kappa. Beta Zeta Chapter of Phi Epsilon Kappa, a national honorary fraternity in men's physical education, was installed March 24, 1962.

Delta Sigma Pi. Phi Beta Mu Chapter of Delta Sigma Pi, an international fraternity in business, was installed April 18, 1964.

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
- Lecture Series Board
- Men's Athletic Board
- Music Activities Board
- Radio 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, debate, and parliamentary legislative assembly are available to all students at Eastern Illinois University.

E.I.U. forensic squad members compete in dual meets and in tournaments throughout the Middle West. They also appear on local radio broadcasts and at neighboring high schools and civic 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.

The Readers' Theatre Guild, a production group of students sponsored by the Speech Department, presents all forms of literature including plays, short stories, novels, and poetry through the format of characterized readings enhanced by theatrical effects. All students, regardless of academic affiliation, are free to participate in public programs of oral interpretation presented on the stage and on the air.

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. Educational radio programs are produced weekly in the Fine Arts Studio by students interested in broadcasting. All students may participate regardless of major or minor concentrations. Programs are broadcast regularly over local stations and periodically are sent to stations throughout Illinois.

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

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

The music organizations provide music for various programs throughout the year, uniting to present "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 joint 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 semi-weekly newspaper, the *Eastern News*; a literary magazine, *The Vehicle*; and a yearbook, the *Warbler*. The newspaper is published by a student staff with a faculty adviser. Staff positions on the *News* are open to all students. 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. All students are eligible for the staff.

A portion of each student's activity fee goes toward a school-year subscription to the *Eastern News*, *The Vehicle*, 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. Apparatus, archery, badminton, baitcasting, bowling, canoeing, fencing, golf, hockey, modern dance, softball, swimming, and tennis are the activities currently offered by the Women's Athletic Association. Basketball, bowling, 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, swimming, and soccer. 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 in the Life Science Annex. Registration is free.

An application for a Parking Permit should also be made at the Security Office. A committee of faculty and students reviews all requests and makes assignments based upon such factors as distance, employment, and physical disability. The charge for the permit is \$1 for a calendar year. A permit for the summer session only is 50¢.

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 \$1.00, second offense \$1.50, third offense \$3.00.

A fourth violation within a given academic year may result in suspension of driving privileges or suspension from the University 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 an institution of higher learning, the university has encouraged the growth of various alumni organizations. Since all persons who have been 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 persons who have either received degrees from this institution or completed a minimum of one quarter's work here.

Officers of the Alumni Association for 1963-64 are Louis K. Voris, Neoga, president; Charles M. Montgomery, Mattoon, vice-president; and Mrs. Gertrude Neff, Charleston, secretary-treasurer.

The executive committee for the Association is composed of the officers and twelve other members elected for three-year terms. Other members are Tom Katsimpalis, Charleston; Mrs. David Kessinger, Sullivan; Gail Lathrop, Olney; Mrs. Betty Zimmerman, Litchfield; Robert McKnight, Oblong; K. B. Wilson, Charleston; Joe Stone, Clinton; Robert A. Wright, Casey; Harry Read, Charleston; Ron Leathers, Robinson; John Huffman, Urbana; and Aaron Gray, Mattoon.

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
*Service Fee	25.00
Health Insurance Fee	5.50

Total\$70.50

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
**Service Fee (per course)	5.00

Total\$17.50

(A part-time student may purchase a Student Activity Ticket for the regular price of \$10. Part-time students are not permitted to purchase Health and Accident Insurance.)

APPLICATION FEE. A non-refundable charge of \$15.00 must accompany the application for admission of all undergraduate students.

Out-of-State Tuition. In addition to the regular university fees of \$70.50, 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 residents 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

*Student Activity Fee—\$10.00, †University Union Building Fee—\$9.00, Textbook Rental—\$6.00.

**University Union Building Fee—\$3.00, Textbook Rental—\$2.00.

†The University Union Building Fee is payable by each student for the construction and maintenance of the University Union.

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.

HEALTH AND ACCIDENT INSURANCE. By action of the Teachers College Board, each full-time student who registers is assessed a fee for group health and accident insurance administered by the University to supplement and complement services performed by the University Health Services. Insured students are eligible to purchase identical coverage for their dependents.

The insurance is available for all four quarters of the year; summer quarter insurance is in force until Registration Day of the fall quarter that follows.

The group policy provides for all reasonable hospital expense, 80% of surgical or medical fees, and 80% major medical expense up to \$5,000 for any one accident or period of illness.

Information concerning the insurance may be obtained in the Office of Financial Aids.

OFFICIAL RECEIPT. The official receipt for university fees *MUST* be preserved by the student during the quarter involved. A fee of \$1.00 will be charged for any duplicate official receipt obtained from the cashier.

MISCELLANEOUS CHARGES AND REFUNDS

Extension Course Fee. (See page 140.)

Chemistry Breakage Ticket. A deposit of \$3.00 is required for a breakage fee in all chemistry courses except Chemistry 340. Refund is made of the amount not used for actual breakage at the conclusion of the course when the locker is checked out.

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 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.

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. The Department of Physical Education will issue each student a towel free of charge at the beginning of the year or any quarter when he did not carry physical education during the previous quarter. The student will be required to turn in the

old towel to obtain a clean or new one at any time, including the beginning of the next quarter. If the towel is lost, the student will have to purchase a towel ticket for \$1.00 at the Office of Business Affairs to obtain a new one.

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 University will furnish one transcript of the academic record of a student when requested to do so. A fee of one dollar will be charged for each transcript issued after the first one. An additional fifty cent fee will be charged for each extra copy of the transcript made at the same time. Transcripts will be issued only for students whose university accounts are clear.

Change of Program. A fee of \$5.00 is charged for each course added after registration day. The fee is non-refundable. Certain exemptions are permitted.

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.

General Library Service Fee. All library materials must be returned and records cleared by the end of each quarter. Lost or mutilated materials must be paid for. Special fines are assessed for failure to observe library regulations, and a service charge of not less than \$1.00 is added for failure to clear records at the end of the quarter.

Fee for Late Tests. Students applying for admission to Eastern must furnish tests scores administered by the American College Testing Program (ACT) although Eastern reserves the right to accept scores on a comparable test battery such as the Scholastic Aptitude Test of the College Entrance Examination Board. Students failing to furnish such test scores or failing to arrange to take comparable tests on campus, will be subject to a late testing fine of \$1 per test.

Late Registration Fee. An extra fee of \$10.00 is charged anyone who registers after the registration dates shown in the catalog, or who fails to pay all fees on registration day. This fee is non-refundable.

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 of Men or Dean of Women 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 the service or insurance 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 postmarked 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.

A student called up for active duty or induction into the Armed Forces prior to the 27th regular class day of the quarter will be given a refund of all fees except the service and insurance fees.

REFUND. Pre-registered Student. If a student pre-registers and pays his fees prior to the regular registration date for the quarter but does not appear at the University for classes, all fees will be refunded, providing notice is given in writing to the Assistant Dean, Registration and Records, five calendar days prior to the announced day of registration. If such notice is not given within the prescribed period but is given during the first ten calendar days following the first day of classes for the quarter, only the registration fee will be refunded.

A student who pays full registration fees and reduces his load to that of a part-time student during the first ten calendar days following the first day of classes will be refunded only the difference between his registration fee and the course fee for those courses constituting his part-time load. There will be no refund of the service fee or insurance fee.

REFUND. Student Denied Admission. If a student pre-registers and pays his fees prior to the regular registration date but is subsequently denied admission to the University, all fees will be refunded.

RESIDENCE HALLS

HOUSING SECURITY DEPOSIT. A housing security deposit of \$25 is required with an application for accommodation in the university residence halls. It will be held by the University as security for payment for any loss of or damage to university property. The deposit will be refunded, upon request, (1) if the application is cancelled in writing prior to the signing of a residence hall contract; (2) if written cancellation of a signed residence hall contract is received by the University on or before August 1 for the fall quarter, or three weeks prior to the first day of classes for the winter, spring, or summer quarter; (3)

when an occupant officially terminates residence in a hall (less any charge for loss or damage). The deposit may be forfeited if written cancellation of a signed residence hall contract is not received by the University on or before August 1 for the fall quarter, or three weeks prior to the first day of classes for the winter, spring, or summer quarter.

BOARD AND ROOM. During the fall, winter and spring quarters, charge for board and room in university residence halls is \$240 per quarter, payable in advance on dates set by the University. 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 vacation periods are not included in the price quoted above. Details concerning residence hall occupancy are found in the residence hall contract. Information on possible installment payments is available from the Office of the Dean of Women or Dean of Men. Rates for the summer quarter and summer session are published in the summer bulletin.

The University reserves the right to increase residence hall rates, if necessary, at the beginning of any quarter or summer term, with the understanding that at least sixty days notice will be given prior to the opening of the quarter in which the increase takes effect.

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 granted by the Dean of Women or Dean of Men.

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; however, refund of room rent is made when a space is rented to another student, thereby filling all the rooms in the residence hall. An exception will be made for a student called up for active duty or induction into the Armed Forces.

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

FINANCIAL AID

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 insti-

tutions: 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, Health and Accident Insurance fees and fees for supplies and materials are not covered by the scholarship. A leave of absence not to exceed two years may be granted in case of illness or the necessity to earn funds to continue the holder's education. A student desiring a leave of absence must make application in the Office of Financial Aids.

Military Scholarships. Any person who served in the armed forces of the United States during World War I or any time after September 16, 1940, who at the time of entering such service was a resident of Illinois and has been honorably discharged from such service, and who possesses all necessary entrance requirements may be awarded a scholarship. This scholarship covers the registration fee and the student activity fee.

A Military Scholarship may be secured by filing a photostatic copy of the discharge or separation papers with the Director of Veterans' Services. The scholarship cannot be used when a veteran draws federal subsistence; it is awarded for four consecutive years. Leaves of absence up to two years in length may be granted in case of illness or extreme financial hardship. In all cases, the scholarship will terminate six years from date of issue.

Training Under Public Laws 550, 634, 894, 815. Veterans may enroll for training under Public Laws 550 or 894. Veterans with 30% or more disability are eligible for training under Public Law 815. War orphans may receive training under Public Law 634. Applications are processed by the Office of Veterans Services at the University.

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 portion of the Service Fee and the Insurance Fee. It 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.

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 or senior students graduating at either the spring or summer commencement of the calendar year following the year at which the award is announced. The student's character, scholarship, and skill in teaching must 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 Director of Financial Aids. 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. 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 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 Director of Financial Aids.

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 in mathematics.

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 J. 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 is made to the student showing the most improvement in English. All freshmen and sophomores who have completed English 120 and 121 and have not taken the examination previously are eligible to compete. All freshmen enrolled in English 121 in the spring quarter are also eligible. 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 \$150 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.

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.

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 Director of Financial Aids 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 Russell Loan Fund. This fund was established by the family and friends of Mrs. W. L. Russell to provide loans for needy women students. The fund is administered by the Dean of Women.

The Florence McAfee Loan Fund. Physical education majors and minors, alumnae, and staff established this fund in 1962 in honor of Dr. Florence McAfee, who retired from the headship of the Women's Physical Education Department in 1962. Any woman student, either majoring or minoring in physical education, is eligible to borrow from the fund. When need arises, students should contact a member of the Women's Physical Education staff.

The Emma Reinhardt Kappa Delta Pi Award. Established in 1962 by members of Beta Psi Chapter in recognition of the contributions of service, guidance, and leadership of Dr. Emma Reinhardt. The award of fifty dollars is made annually to the highest ranking junior pursuing the degree of Bachelor of Science in Education.

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. The purpose of this program is to provide rehabilitative services to those individuals who have a physical disability or psychological malfunction which interferes with their vocational objective. Information concerning this program can be obtained in the office of Student Personnel Services, the office of the campus Coordinator of Rehabilitation Services, or in the local office of the Division of Vocational Rehabilitation serving the area of the student's home.

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 Admissions Office of the University.

To insure consideration for admission for any quarter the application blank, personal information blank, physical examination blank, and transcripts from any colleges previously attended must be filed with the Admissions Office. Applications from students who have not previously attended a university or college must be completed four calendar days prior to the published official registration date for that quarter. Students who rank in the lowest third of their high school class will conform to special instructions obtained from the Admissions Office.

Applications from transfer students in good standing must be completed and in the Admissions Office seven calendar days prior to the published official registration date for that quarter.

Applications for admission of transfer students not in good standing must be complete and in the Admissions Office no later than two weeks prior to the official published registration date for that quarter.

ADMISSION OF FRESHMAN STUDENTS:

1. 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.
2. In general, an applicant who graduates in the lowest third of his graduating class may be permitted to enter on academic probation, after fulfillment of all requirements, for the Summer, Winter or Spring Quarters only. Persons in the lowest third who have been out of high school for one year or more may enter on academic probation for any quarter after fulfillment of all requirements. (Students who rank in the lowest third of their class will follow special instructions obtained from the Office of Admissions.)

Lowest-third students entered on probation in the summer quarter must complete the quarter in order to be eligible to enroll the following fall quarter.

When a student has been admitted by the Committee on Admissions for a given quarter and does not come

ADMISSION AND REGISTRATION

that quarter, he may be automatically admitted at any subsequent quarter without further committee action with two exceptions: (1) if the committee action has limited his admission to a given quarter, that limitation must be respected, and (2) if the "subsequent" quarter for which he seeks admission is the fall quarter, his case must be referred to the Committee on Admissions for action.

3. Individuals with high school diplomas granted as a result of a General Education Development Test are admitted in good standing.
4. Probationary admission of applicants who are not high school graduates is granted upon presentation of fifteen acceptable units from a recognized high school with a recommendation of the high school principal; in this case requirements for high school graduation must be completed during the freshman year.
5. Out of state students must rank in the upper two-thirds of their graduating class to be eligible for admission to Eastern Illinois University.
6. Foreign Students—All students from areas other than the United States may be admitted only by committee action.

Testing Requirements

Each student applying for admission to Eastern Illinois University will be required to furnish scores from the test battery administered by the American College Testing Program (ACT). However, Eastern Illinois University reserves the right to accept scores obtained on a comparable test battery such as the Scholastic Aptitude Test (SAT) or scores of the College Entrance Examination Board (CEEB).

In general students ranking in the lowest third of their high school classes must have been tested by the middle of July for fall term admission and at least three weeks prior to the beginning of any other quarter. Low ranking students should write early to the Admissions Office for a schedule of dates showing when testing and counseling must have been completed.

ADMISSION OF TRANSFER STUDENTS:

Transfer students must file an application for admission (see procedures for applying) and must request the institution or institutions previously attended to forward transcripts to the Office of Admissions. The request for a transcript should include a request to transmit scores on entrance examination tests.

Transfer students are admitted without condition if these documents together with such supplementary information as the University may obtain indicate that the student was in good standing in the institution last attended and would have been in good standing according to regulations which govern students of Eastern Illinois University.

Applicants whose records do not meet the standards cited above will be considered by the Committee on Admission for any quarter but the fall quarter, except that applications for spring quarter will not be considered from students who were dropped at the end of the previous semester of another institution. Prior to consideration the applicant must submit a letter to the Office of Admissions in which he discusses the reasons for his poor academic record and explains why he believes he is capable of success at Eastern Illinois University. Transfer students should consult the previous page concerning cut-off dates for applications.

RE-ADMISSION OF FORMER STUDENTS IN GOOD STANDING:

Former students who are in good standing and who return to the University after a lapse of one or more quarters should make application for re-admission through the Office of Registration and Records at least four calendar days prior to the opening of the quarter in which they wish to re-enter the University. Former students not in good standing see section on appeal under Academic Regulations.

SPECIAL STUDENTS:

Residents of Illinois who are not high school graduates but who are at least twenty-one years old, through the same procedures as other students, 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 the G. E. D. examination and obtaining a high school equivalency certificate. In this case only those college courses taken after passing the examination may be counted toward graduation.

GRADUATE STUDY:

Students wishing to take graduate work see section on Graduate Study. All others follow procedures outlined in this section.

HOUSING APPLICATION:

Housing reservations must be sent to the Dean of Men or Dean of Women (see page 55) and may be made at any time

even though the application for admission has not been filed. The application for housing is entirely separate from the admission application.

NOTIFICATION OF ACCEPTANCE:

An applying high school senior who ranks in the upper two-thirds of his graduating class at the completion of the sixth semester is sent a notification of his eligibility to enroll, subject to the completion of his high school curriculum with graduation in the upper two thirds of his class.

OFFICIAL PERMIT TO ENROLL:

An official "Permit to Enroll" is mailed only upon receipt of the completed application for admission (including a transcript at the close of his eighth semester in high school), the medical examination form, and testing results.

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. Up to 96 quarter hours of junior college credit may be accepted provided that none of this work is taken in junior college after having more than 96 qr. hrs. of acceptable university credit. Credit transferred from junior college is further limited by the provisions that the student must earn the last ninety-six quarter hours of any bachelor's degree requirement at the University or at any other approved four-year institution and that credit for education courses is accepted only for those courses which are taught at the junior college level at the University. Junior college credits may not be counted to fulfill the requirements concerning the number of upper division credits. Students who transfer to the University must meet all requirements listed under "Graduation Requirements".

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 Student Academic Services; 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 Student Academic Services.

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 apply to the Records Office for readmission and obtain an assignment of an adviser from the Associate Dean of Student Academic Services.

REGISTRATION PROCEDURES

Instructions for the registration of new students are given in writing, in conferences, and at meetings during orientation periods.

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 must be approved by the adviser. Changes within limits of institutional policy may be made upon presentation of a request signed by the student's adviser to the Dean of Student Academic Services. Pre-registration is not complete until class cards have been reserved.

REGISTRATION. Prior to the beginning of each quarter students will be given an opportunity to submit a schedule of preferred classes and to have class cards reserved for the following quarter provided they agree to complete their registration, including the advance payment of registration fees. The University assumes no responsibility for accepting an ineligible student registration. Reservation of a card for any class is subject to the assigned capacity of the class. The schedule for the reservation of cards is planned so that graduate students, seniors, juniors, sophomores and freshmen have priority in that order. Pre-registered students who fail to complete the various steps of registration and fee payment at the appointed time will forfeit their priority in the classes for which they reserved cards.

All students who have not pre-registered for a given quarter will register on Registration day as listed in the University calendar and at times announced in advance of each quarter. Former students wishing to re-enter the University should consult pages 84 and 86 of the current catalog.

CHANGE OF ADVISER. Students who wish to change majors must apply to the Associate Dean, Student Academic Services after consultation with their advisers. It is important that needed changes in advisers be made before pre-registration in order to facilitate priority in classes.

Refund of Registration Fees. See Section on Miscellaneous Charges and Refunds.

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

Students are classified as follows:

	(exclusive of nominal credit courses)
Freshmen	with 0 thru 39 quarter hours
Sophomores	with 40 thru 87 quarter hours
Juniors	with 88 thru 135 quarter hours
Seniors	with 136 qr. hrs. and upward
Graduate—if he has completed all requirements for a bachelor's degree and has applied for and been admitted to take graduate courses.	
Special or unclassified—if he does not fall into any of the above categories.	

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	—
WP	Withdrew—passing	—
WF	Withdrew—failing	—
AU	Audit	
Cr	(See "Proficiency Examinations")	

ACADEMIC REGULATIONS

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 in which the course is offered and the student is in 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. The restricted time mentioned above does not apply to the formal graduate papers required for the master's degree.

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, in any quarter except the fall quarter, only the last grade is counted in making this computation. It is the student's responsibility to file a "repeat card" with the Records Office by the tenth school day of the quarter. Failure to do so will result in counting the first grade as a part of the grade point average in determining probation and drop lists, regardless of the quarter in which the course is 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.

*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. = 29 divided by 15 = 1.93
B	4	12	
C	4	8	
D	1	1	G.P.D. = 2x15 minus 29 = 1.
F	4	0	
	15	29	

Note: During the first three quarters a student may have a grade point deficit of 8. During the second year he may have no more than 4 points. After his sixth quarter he may have no grade point deficit.

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

Any quarter in which a student registers in the University will be considered as a quarter attended. In case a student withdraws during a quarter for reasons beyond his control the Committee on Admissions may, upon petition of the student at the time of withdrawal, authorize that the quarter not be counted as a quarter attended.

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. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing".

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. The rules for defining a quarter attended shall be the same as those defined in the section entitled "Good Standing".

APPEAL. 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 Men or Dean of Women.

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 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 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.

Except as noted above, 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. A music major may carry one hr. overload during student teaching if he must do his recital when doing student teaching and if his GPA makes him eligible.

Speech Correction majors may carry 18 hours when enrolled for advanced clinical practice.

Majors in women's Physical Education may carry two service courses in addition to the normal sixteen hour load.

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, Student Personnel Services 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, Student Personnel Services 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 Vice President, Dean, Student Personnel Services or the Dean of Student Academic Services upon request.

Instructors are expected to report to the Dean of Student Personnel Services 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 Student Personnel Services. In the event that the student has missed classes for reasons acceptable to the Dean of Student Personnel Services, 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 Student Personnel Services, the student may be required by the Dean of Student Personnel Services 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 Council of Administrative Deans and Directors on recommendation of the Dean of Student Personnel Services.

WITHDRAWAL FROM A COURSE OR FROM THE UNIVERSITY

A student may drop a course within the first thirty-four school days following registration day upon the recommendation of his adviser and the approval of the Dean of Student Academic Services. Drop slips may be obtained from the Office of Registration and Records.

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 may be obtained from the Office of the Dean of Student Personnel Services. This sheet when filled out should certify that all obligations, including the return of textbooks and library books, the return of departmental equipment loaned to the student, the return of the identification card, etc. have been met.

If a student drops a course or leaves the University on or after the tenth school day of the quarter he will be given WP in any course in which he is doing passing work; he will be given WF if he is doing failing work. In particular, the grade of WF must be recorded if prior to the date that the withdrawal was formally initiated by the student, the number of "unjustified" absences has been great enough so that the student cannot be considered as having done the work of the course to date. When illness or other medical reasons, certified by the University physician, require a student to withdraw from a course or from the University the grade will be WP or WF depending on whether the student was passing or failing at the time of the onset of the illness as determined by the University physician. However, when a first quarter freshman leaves school within the first twenty-five days of classes (5 weeks) the Records Office is authorized and directed to record grades of WP in all courses.

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 Student Personnel Services 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.

A student who is carrying an overload (18 to 20 q. hrs. of regular courses) may reduce his schedule to 16 q. hrs. at any time during the first thirty calendar days of the quarter and receive the grade of WP in the course dropped.

No student may initiate withdrawal from the University later than three schools days prior to the date of the first regularly scheduled final quarterly examination.

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.

Policies covering the withdrawal of students from school because of a call to active military duty have been developed by the Council on Academic Affairs and are on file in the administrative offices.

The grade of WF carries the same grade point implications as the grade of F.

PROFICIENCY EXAMINATIONS

Proficiency examinations may be taken for credit in undergraduate courses offered in the University 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 Vice President for Instruction 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, four baccalaureate degrees, and two masters degrees. 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. Students must meet the physical education requirements listed under the men's or women's course write ups.

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, 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 qr. hrs. of credit must be completed in residence at this institution. Of this total at least 48 qr. hrs. must be earned in residence during the junior and senior years.

EXTENSION AND CORRESPONDENCE WORK. The maximum amount of credit in correspondence and extension courses which may be applied toward the minimum of 192 quarter hours for 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. Students who receive a grade of "C" or better in each of Political Science 110, 111, 112 may apply to the head of the Social Science Department for exemption from the Constitution Examination.

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 at the close of the Fall, Winter, Spring, and Summer quarters to students who complete all requirements for graduation. Only those students who were graduated at the close of the Fall or Winter quarters or whose current class programs in extension, workshops and residence at Eastern Illinois University or elsewhere makes possible the completion of all graduation requirements by the close of the Spring or Summer quarters will have their names appear on the commencement program and be entitled to participate in the exercises. Students completing their work at the close of the Fall or Winter quarters may either elect to receive their diplomas at that time or to participate in the Spring Commencement exercises.

All requirements for degrees or diplomas must have been completed by the close of the quarter for which graduation is

sought. It is the student's responsibility to notify the Office of Registration and Records of any non-campus courses being taken which will complete the requirements for graduation. Transcripts of such work must be received by the Office of Registration and Records prior to the close of any quarter in which a degree is sought.

A student who expects to be graduated at the close of the Fall or Winter quarters must apply for graduation and pay the graduation fee prior to the close of the quarter when he finishes his work. If he finishes his work in the Fall or Winter and elects to participate in the Spring Commencement exercises he must also furnish Cap and Gown measurements at the same time he pays his graduation fees.

A student who expects to complete his requirements in the Spring or Summer quarters must apply for graduation, must furnish his cap and gown measurements, and pay the graduation fee all prior to April 1 for Spring Commencement or July 1 for Summer Commencement. The application for graduation is filed at the Office of Registration and Records but the graduation fee and cap and gown measurements must be turned in at the Business Office.

CERTIFICATION. 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.

Cards of entitlement for teaching certificates or transcripts indicating that the student has completed his degree cannot be issued, even for one who finishes his work in the fall or winter quarters, until the student meets all requirements of this Section on Graduation Requirements.

PLACEMENT OFFICE. Registration with the Placement Office 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.

CREDIT FOR COURSES IN EDUCATION. Courses in education and methods of teaching are accepted only toward the B.S. in Education degrees. 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 fee of one dollar will be charged for each transcript issued after the first one and fifty cents will be charged for each extra copy of the transcript made at the same time.

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 and may not change their registration from "audit" to "credit" or "credit" to "audit" after the first ten days following registration.

VI. 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 (except Education 120, 121 and 232 where required). 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 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 departmental methods courses and education courses (except Education 120, 121 and 232) 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 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 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 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 are following a B.S. or B.A. degree program and 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 or waiving of course pre-requisites.

Criteria for Admission to Teacher Education. Admission to teacher education is determined by the Council on Teacher Education. This council 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 from 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 Student Personnel Services.

Application blanks for admission to teacher education and additional information may be secured at the Office of the Dean of Student Academic Services.

If students do not receive approval for admission to teacher education by the time they complete the quarter in which they will have earned 120 quarter hours (excluding nominal credit courses) or by the close of their third quarter at Eastern if transfer students who entered with 84 or more quarters of accepted credit (excluding nominal credit) their applications shall be denied.

TEACHING PRACTICUM

Academic Standards for Admission to the Teaching Practicum

1. Admission to teacher education is prerequisite to admission.
2. Students in a four-year secondary education program must have completed Education 332 and 333 (or equivalent) in addition to general psychology and departmental methods.
3. Students pursuing the kindergarten, elementary or junior high school curriculums shall have earned sixteen quarter hours of credit in education courses. Those following the kindergarten curriculum must have completed Education 334; those following the elementary curriculum must have completed Education 324 and 328; those following the junior high school curriculum must have completed Education 311

and 312 or 313 or an equivalent course approved by the Director of the School of Elementary and Junior High School Teaching.

4. Students must have an over-all grade point average of 2.10 at the time of application for student teaching, and no tentative assignments will be made for late applicants whose grade point average is below 2.10. Secondary school majors must also have a 2.10 average in their teaching fields at the time of application.
5. Secondary school majors must complete the required departmental "methods of teaching" courses in their major and minor fields before they may participate in the teaching practicum in these fields if the minor is ruled dissimilar to the major field.
6. Students, if at all possible, should meet the minimum requirements established by the Office of the Superintendent of Public Instruction for teaching various subjects. Where this cannot be done, assurance must be given that state requirements will be met by the time of graduation.
7. Transfer students must have been in residence at Eastern for at least one quarter or one summer term before they may be admitted.
8. Students who have earned a baccalaureate degree from another accredited college or university, who have been admitted to teacher education at Eastern Illinois University, and who meet the academic and residence requirements for admission to the teaching practicum, may enroll by obtaining permission from the Dean of the Faculty for Professional Education or the Director of Elementary and Junior High School Teaching.
9. All assignments are limited by available facilities and priority will be given to students enrolled in a four-year B.S. in Education degree program at the University.

Health Standards for Admission to the Teaching Practicum

1. All students must have had a chest X-ray (negative) within one year previous to beginning 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 the practicum 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 the Teaching Practicum

1. Applications for secondary school assignments are made by filling out application and information blanks and returning them to the Dean of the Faculty for Professional Education at least one quarter in advance of the quarter in which teaching is desired. Assignments are made by the coordinator and approved by the Dean of the Faculty for Professional Education. Secondary school majors who must teach in the Buzzard Laboratory School will be expected to clear with their coordinator who will consult with the Director of Elementary and Junior High School Teaching.
2. Applications for elementary and junior high school assignments are made by filling out application and information blanks and returning them to the Office of the Director of Elementary and Junior High School Teaching at least one full quarter in advance of the quarter in which the teaching is desired. Students are expected to work with their adviser in planning for the practicum. Assignments are made through the Director's office.
3. Students should arrange for their teaching assignments before registering for other subjects.
4. In planning their schedule of classes, students provide time for teaching according to one of the following patterns:
 - a. All day for one quarter.
 - b. Half-day for two quarters.
5. No student may register for more than a normal load, including the practicum during any quarter in which he has student teaching, except music majors who must do their recital during a quarter when doing student teaching and speech correction students who must do some clinical practice. The number of hours of outside work will be restricted.
6. Students enrolled in full-time off-campus 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 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 enrolled in off-campus teaching are required to become familiar with and conform to all special regulations relative to these assignments as outlined in the Catalog and the Student Teaching Handbook.

Off-Campus Teaching Practicum

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 teaching outside of Charleston. The same will be increasingly true for those following an elementary or junior high school program.

Those who participate in full-time teaching should live in the community in which they do their teaching. These students report to the school every day, all day, and work with the school system for the quarter, 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 secondary school practicum teachers frequently participate in: guidance programs of the school, audio-visual programs, study halls, the preparation of assembly programs, field trips, dramatics, and athletic contests. They also attend faculty, department curriculum, and P.T.A. meetings, and 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 practicum 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.

On-Campus Teaching Practicum

The R. G. Buzzard Laboratory Schools are operated primarily to provide observation and student teaching facilities for University classes and students. These Laboratory Schools include an elementary school of six grades and a junior high school. They are under the supervision of a Director of Elementary and Junior High School Teaching and a principal of the school. Departments of the University serve in an advisory capacity.

Classrooms in these schools are open to observers. Arrangements for observation (either individual or group) should be made through the Director of Elementary and Junior High School Teaching. The Director and the Laboratory School Supervisors will help University students and visiting teachers obtain the observation opportunities desired.

On campus teaching for elementary school majors is done in the Buzzard Laboratory School. Assignments are made through the Director of Elementary and Junior High School Teaching.

VII. TEACHER EDUCATION CURRICULA

Requirements for the Degree, Bachelor of Science in Education

(Students who entered Eastern Illinois University prior to September 1, 1961 consult earlier catalogs.)

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 131—4 q. hrs.

Natural Sciences (see Section IV for definition)—16 q. hrs.

Social Studies (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.

Physical Education Service Courses—(6)

NOTE: Credit listed in parentheses is nominal credit to be earned in addition to 192 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.

Teaching Practicum—12 q. hrs. (A maximum of 16 q. hrs. may be earned.)

III. Majors and Minors

In curricula for the Standard High School Certificate a major of at least 48 q. hrs. and a minor of at least 32 to 36 q. hrs. are required. In curricula for the standard Special Certificate in Music, Art, Women's Physical Education, Industrial Arts, Home Economics, Speech Correction, 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 standard 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, except that this provision does not apply to students in the School of Elementary and Junior High School Teaching where the general requirements are eight hours in each field. (For students who entered prior to September 1, 1963, the total science requirement is 12 q. hrs. in one field.)

Social Studies (except psychology). The social studies are defined to include history, political science, economics, sociology-anthropology, 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. Where an approved course in literature in a foreign language is offered toward Group A it may not simultaneously satisfy a requirement under Group C.

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 in the same subject 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 Vice President for Instruction rules that methods work is contained in other courses. Where the major and the minor are ruled dissimilar by the Vice President for Instruction, 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.

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 the field different from that in which the exemption is taken. (This paragraph applies only to students who entered 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 requirement 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 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.

Students may be exempt from the four-hour mathematics requirement if they passed any mathematics course in high school beyond two years of college preparatory mathematics or made a sufficiently high score on mathematics tests administered to entering students. 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 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.

Outlines of Teacher Education Curricula

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

This curriculum is intended to prepare for teaching in kindergarten through grade eight of the public schools. The degree, Bachelor of Science in Education, is conferred upon its completion and graduates are recommended for an Elementary Certificate.

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Mathematics 320, Phy. Educ. 360	4
Education 120, 121	2	Education 324, 327, 328, 329	16
History (one of) 244, 245, 246, 247, 248	4	Music 328	4
Life Science 116, 117	8	Subject Area Concentration and Electives	12
Music 120, Art 140	8	Humanities (Group A or C)	4
Mathematics 122, 123	6	English 322 ¹ , Education 334 ²	8
Geography 150, H. Ed. 120	8		
Fine Arts Elective	4		
Physical Education (year)	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220	4*	Education 441, 442, 443	12
Education 232	4	Education 445	4
Physical Science 100, 101	8	Subject Area Concentration and Electives	32
Art 244 or Ind. Arts 224 or 225	4		
History (one of) 233, 234, 235	4		
History Elective, S.S. Elective	8		
Psychology 231, Speech 131	8		
Humanities (Group A or C)	8*		
Physical Education (year)	(3)		

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

¹ Required in Early Childhood Sequence.

² Required of Prospective Kindergarten Teachers.

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

No later than the spring quarter of the freshman year students are required to select a major area of concentration (24 qtr. hrs.) and a minor area of concentration (12 qtr. hrs.) from the following subject areas: Art-Industrial Arts, Biological Science, English, Foreign Language, Geography, History, Library Science, Mathematics, Music, Physical Education-Health-Safety, Physical Science, Social Science, Social Studies, Speech, and Speech Cor-

rection. Copies of course requirements in areas of concentration may be secured in the office of the Director, School of Elementary and Junior High School Teaching.

Elementary Education—Speech Correction

This program requires 200 quarter hours for graduation if the student has no exemptions. Students with no exemptions will be expected to take 13 quarters to complete the program. Successful completion of this program will result in certification as an elementary teacher and a speech correctionist.

Curriculum for Junior High School Teachers

This curriculum is intended to prepare for teaching in grades 7, 8, 9 of the public schools. The degree, Bachelor of Science in Education, is conferred upon its completion and graduates are recommended for a secondary certificate.

FRESHMAN YEAR	Qtr. Hrs.	JUNIOR YEAR	Qtr. Hrs.
English 120, 121	8	Humanities	4*
Life Science 116, 117	8	Psychology 352	4
History (one of) 244, 245, 246, 247, 248	4	Education 311, 312, 313 or 314	12
Mathematics 125	4*	Subject Area Specialization and Elective	28
Education 120, 121	2		
Humanities	12*		
Geography 150, H. Ed. 120	8		
Subject Area Specialization	4		
Physical Education (year)	(3)		
SOPHOMORE YEAR	Qtr. Hrs.	SENIOR YEAR	Qtr. Hrs.
English 220, Humanities	12*	Education 441, 442, 443	12
Physical Science 100, 101	8	Education 445	4
History (one of) 233, 234, 235	4	Subject Area Specialization and Elective	32
Social Studies Elective	4*		
History Elective	4*		
Psychology 231, Speech 131	8		
Education 232	4		
Elective	4		
Physical Education (year)	(3)		

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

No later than the spring quarter of the freshman year students are required to select a major area of specialization (48 qtr. hrs.) and a minor area of specialization (30-36 qtr. hrs.) or three areas of specialization (30-36 qtr. hrs. in each area). Areas of specialization may be selected from the following areas: Art, English, Geography, History, Home Economics, Industrial Arts, Library Science, Mathematics, Physical Education, Physical Science, Social Studies, Speech, and Speech Correction.

It is recommended that students give strong consideration to selecting their fields of concentration in Mathematics, Physical Science or English-Social Studies.

Copies of course requirements in areas of concentration may be secured in the office of the Director, School of Elementary and Junior High School Teaching.

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 Standard High School Certificate or Standard Special Certificate as indicated.

The curricula are listed according to major. At least one minor is required for a high school certificate. (See requirements for minors on pp. 120-124.) 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 Student Academic Services before it is accepted as fulfilling requirements.

Because of limited facilities in the vicinity of Charleston, students should plan to register for four courses of off-campus student teaching during one quarter.

ART

1. (Special Certificate in Art)

FRESHMAN YEAR	Qtr. Hrs.	JUNIOR YEAR	Qtr. Hrs.
English 120, 121	8	Art 340, 341	8
Speech 131, H. Ed. 120	8	Art Electives	12**
Art 100, 101	8	General Requirements	20*
Art 110, 111, 160	12	Education 332, 333	8
General Requirements	12*		
Physical Education	(3)		
SOPHOMORE YEAR	Qtr. Hrs.	SENIOR YEAR	Qtr. Hrs.
English 220, Mathematics	8*	Art Electives	20**
Art 205, 225, 270	12	General Requirements	4*
Art 260, 261, 262	12	Electives	8-4
General Requirements	12*	Education 445	4
Psychology 231	4	Education 441, 442, 443 (444)	12-16
Physical Education	(3)		

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

**Each student selects one major area (24-28 quarter hours) and one minor area of concentration (8-12 quarter hours). Study in at least two phases of a major area must be included in each student's program. Work in a minor area must be confined to study in only one of the minor areas shown below:

Major Area I: Painting, Drawing, Printmaking.

Major Area II: Ceramics, Jewelry and Metals, Sculpture, Weaving and Textile Design.

Minor Area: Art Education, Art History, Commercial Design, Major Area I, Major Area II.

2. (High School Certificate)

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	8	Art 340	4
Speech, 131; H. Ed. 120	8	Minor	16
Art 100, 101	8	General Requirements	20*
Art 110, 111, 160	12	Education 332, 333	8
General Requirements	12*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
English 220, Mathematics	8*	Art Electives	12
Art 205, 225, 270	12	Minor	12
Art 260, 261, 262	12	General Requirements	4*
General Requirements	12*	Education 445	4
Psychology 231	4	Electives	4-0
Physical Education	(3)	Education 441, 442, 443, (444)	12-16

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

BOTANY

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	8	Botany (three advanced courses)	12
Speech 131; H. Ed. 120	8	Botany 340	4
Botany 120, 121, 222	12	Zoology (three advanced courses)	12
Chemistry 120, 121, 122 or 150, 151, 152	12	Education 332, 333	8
General Requirements	8*	General Requirements	12*
Library	(1)		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
English 220, Mathematics	8*	Botany (three advanced courses)	12
Botany 230, 231, 232 or 335	12	Zoology (advanced course)	4
Zoology 110, 111, 212	12	General Requirements and/or	
Geography 140 or 141	4	Electives	16-12*
Psychology 231	4	Education 445	4
General Requirements	8*	Education 441, 442, 443, (444)	12-16
Physical Education	(3)		

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

BUSINESS

1. Accounting and Secretarial

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	8	General Requirements	16*
Speech 131; H. Ed. 120	8	Business 346, 347	8
Business 141, 142	8	Business (two of) 470, 471, 472, 473	8
Business 212 and (two of) 111, 112, 210, 211	12	Social Studies	4*
Business (three of) 123, 124, 125, 223, 224, 225	12	Psychology 231	4
Physical Education	(3)	Education 332, 333	8
SOPHOMORE YEAR		SENIOR YEAR	
General Requirements	12*	General Requirements	12*
Business 230, 231, 232	12	Minor	16
Economics 254, 255, 256	12	Education 445	4
English 220, Mathematics	8*	Elective in Business	4-0
U. S. History	4	Education 441, 442, 443, (444)	12-16
Physical Education	(3)		

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

2. Accounting

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	8	Business (three of) 354, 355, 356,	
Speech 131; H. Ed. 120	8	460, 461, 462, 463	12
Business 141, 142	8	General Requirements	16*
Business 212 and (two of) 111, 112, 210, 211	12	Minor	12
U. S. History, Minor subject	8	Education 332, 333	8
Social Studies	4		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Business 230, 231, 232	12	General Requirements	12*
Economics 254, 255, 256	12	Business 346, 347	8
General Requirements	12*	Business 470 and (one of) 471, 472, 473	8
English 220, Mathematics	8*	Education 445	4
Psychology 231	4	Electives in Business	4-0
Physical Education	(3)	Education 441, 442, 443, (444)	12-16

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

3. Secretarial

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121, Speech 131	12	Psychology 231	4
Business 223, 224, 225	12	Education 332, 333	8
Business 140, 141, 142	12	Business 346, 347	8
Business 210, 211, 212	12	General Requirements	16*
Physical Education	(3)	Minor Subject	12
SOPHOMORE YEAR		SENIOR YEAR	
English 220, Mathematics	8*	General Requirements	12*
U. S. History, H. Ed. 120	8	Business 472, 473	8
Economics 254, 255, 256	12	Education 445	4
General Requirements	12*	Electives in Business	12-8
Social Studies	4	Education 441, 442, 443, (444)	12-16
Minor Subject	4		
Physical Education	(3)		

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

CHEMISTRY

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	8	Chemistry 343, 344, 345	12
Speech 131	4	Chemistry 340, 342	5
Chemistry 150, 151, 152 or 120, 121, 122	12	Education 332, 333	8
Mathematics 131, 134, 235 ¹	12	General Requirements and/or electives	24*
Physics 130, 131, 132 ²	12		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
English 220	4*	Chemistry 491, 492, 493	12
Chemistry 234, 235, 361	12	General Requirements and/or electives	20-16*
Mathematics 236, 345 and 227 or 228 or 450	12	Education 445	4
General Requirements	12*	Education 441, 442, 443, (444)	12-16
Psychology 231, H. Ed. 120	8		
Physical Education	(3)		

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

¹ Depending on mathematics placement test. See mathematics section.

² If postponed, should be taken in the sophomore year.

ENGLISH

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121, 126	12	English 326 or 327 and electives	12
Speech 131, H. Ed. 120	8	English 340, 450	8
Mathematics	4*	General Requirements and/or electives	12*
General Requirements	12*	Education 332, 333	8
Foreign Language	12	History 343, 344	8
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 220	4*	English Electives	12
English 245, 246, 247	12	General Requirements and/or electives	20-16*
English 250, 251	8	Education 445	4
Foreign Language	12	Education 441, 442, 443, (444)	12-16
General Requirements	8*		
Psychology 231	4		
Physical Education	(3)		

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

The language requirements of two years or the equivalent shall be restricted to one of the following: French, German, Latin, Spanish or Russian with equivalence to be determined by the Foreign Language Departments.

FOREIGN LANGUAGES

1. French¹

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	English 220	4*
Speech 131, H. Ed. 120	8	French 330, 331, 332 or 333, 334, 335 ³	12
General Requirements	12*	French 340	4
History 235, 247	8	Minor	12
French 130, 131, 132	12	Education 332, 333	8
Physical Education	(3)	General Requirements	8*
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
French 230, 231, 232	12	French (three of) 450, 451, 452, 453, 454, 455	12
Minor	12	General Requirements and/or electives	20-16*
Mathematics	4*	Education 445	4
General Requirements	16*	Education 441, 442, 443, (444)	12-16
Psychology 231	4		
Physical Education	(3)		

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

¹The French major consists of 52 q. hrs. including French 340 and at least 12 q. hrs. in courses numbered above 400.

²Students with background of high school units in French, see page 201.

³French 330, 331, 332 are required for French majors and it is recommended that they be taken during the junior or senior year only.

2. German¹

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	German (three of) 353, 354, 355, 361, 362, 363 ³	12
Speech 131, H. Ed. 120	8	German 340	4
German 130, 131, 132, or 120, 121, 122 ²	12	English 220	4*
General Requirements	12*	Minor	12
History 235, 248	8	General Requirements	8*
Physical Education	(3)	Education 332, 333	8
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
German 233, 234, 235	12	German (three of) 453, 454, 455, 456, 457, 458	12
Minor	12	General Requirements and/or electives	20-16*
Mathematics	4*	Education 445	4
General Requirements	16*	Education 441, 442, 443, (444)	12-16
Psychology 231	4		
Physical Education	(3)		

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

¹The German major consists of 52 q. hrs. including German 340 and at least 12 q. hrs. in courses numbered above 400.

²Students with background of high school units in German, see page 201.

³German 354, 361, 456 are required for German majors and it is recommended that they be taken during the junior or senior year only.

3. Latin¹

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Latin (three of) 310, 311, 312, 330, 331, 332	12
Speech 131, H. Ed. 120	8	Latin 340	4
Latin 120, 121, 122 ²	12	English 220	4*
General Requirements	12*	Minor	12
History 233, 244	8	General Requirements	8*
Physical Education	(3)	Education 332, 333	8
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hr		Qtr. Hrs.	
Latin 220, 221, 222 ²	12	Latin (three of) 433, 434, 435, 450, 451, 452	12
Minor	12	General Requirements and/or electives	16-20*
General Requirements	16*	Education 445	4
Mathematics	4*	Education 441, 442, 443 (444)	12-16
Psychology 231	4		
Physical Education	(3)		

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

¹The Latin major consists of 52 q. hrs. including Latin 340 and at least 12 q. hrs. in courses numbered above 400.

²Students with background of high school units in Latin, see page 201.

4. Spanish¹

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Spanish (three of) 321, 322, 323, 330, 331, 332	12
Speech 131, H. Ed. 120	8	Spanish 340	4
Spanish 130, 131, 132	12	English 220	4*
History 233, 234	8	Minor	12
General Requirements	12*	General Requirements	8*
Physical Education	(3)	Education 332, 333	8
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
Spanish 230, 231, 232	12	Spanish (choose three 400 courses)	12
Minor	12	General Requirements and/or electives	20-16*
General Requirements	16*	Education 445	4
Mathematics	4*	Education 441, 442, 443, (444)	12-16
Psychology 231	4		
Physical Education	(3)		

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

¹The Spanish major consists of 52 q. hrs. including Spanish 340 and at least 12 q. hrs. in courses numbered above 400.

²Students with background of high school units of Spanish, see page 201.

³Spanish 330 or 412; 331 or 410 are required for Spanish majors. It is recommended that they be taken during the junior or senior year only.

GEOGRAPHY

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Geography, advanced courses	12
Speech 131, H. Ed. 120	8	Geography 340	4
Mathematics	4*	Education 332, 333	8
General Requirements	12*	General Requirements	12*
Geography 150, 151 and 141 or 142, or 140	12	Minor	12
History 233, or 234 or 235	4		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 220	4*	Education 445	4
Geography, prescribed by dept.	12	Geography, advanced courses	12
Psychology 231	4	Minor	12
Economics 254, 255, History	16*	General Requirements and/or electives	8-4*
General Requirements	12*	Education 441, 442, 443, (444)	12-16
Physical Education	(3)		

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

HISTORY MAJOR: SOCIAL SCIENCE MINOR

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	History, advanced	8
Speech 131, H. Ed. 120	8	Anthropology, Sociology	12
History 233, 234, 235	12	Political Science	12
History 246, 247, 248	12	Social Science 340	4
Geography 150	4	General Requirements	4*
Mathematics	4*	Education 332, 333	8
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 220	4*	History, advanced	12
History 244, 245	8	General Requirements and/or electives	20-16*
Economics 254, 255, 256	12	Education 445	4
Natural Science	12	Education 441, 442, 443, (444)	12-16
General Requirements	8*		
Psychology 231	4		
Physical Education	(3)		

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

HOME ECONOMICS

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Home Economics 301, 320, 340	12
Speech 131, Art 110	8	Home Economics 345, 346, 347	12
Mathematics	4*	Botany 234	4
Home Economics 101, 102, 131	12	Sociology 271	4
Chemistry 120, 121, 155	12	General Requirements	8*
General Requirements	4*	Education 332, 333	8
Physical Education			
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 220	4*	Home Economics 300, 344, 431	12
Home Economics 201, 210, 211	12	General Requirements and/or electives	16*
Home Economics 212, 230	8	Education 445	4
Home Economics 231, 245	4	Education 441, 442, 443, (444)	12-16
General Requirements	8*		
Psychology 231, Art 280	8		
Economics 254	4		
Physical Education	(3)		

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

INDUSTRIAL ARTS

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Industrial Arts 326, 336, 340, 352, 354	20
Speech 131, H. Ed. 120	8	General Requirements	16*
Industrial Arts 134, 135, 140, 150	16	Elective	4
General Requirements	12*	Education 332, 333	8
Mathematics	4*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
Industrial Arts 231, 232, 245, 265, 259, 260	20	Industrial Arts 380, 382	8
General Requirements	20*	General Requirements and/or electives	24-20*
Psychology 231	4	Education 445	4
English 220	4*	Education 441, 442, 443, (444)	12-16
Physical Education	(3)		

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

LATIN AMERICAN STUDIES

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121, Speech 131	12	Spanish 336, 337, 338	12
Spanish 130, 131, 132	12	Education 332, 333, 445	12
Science	12	History 464, 465, Geog. 351	12
History 235, Mathematics 125*	8	Spanish 340	4
Health Education	4	Minor	8
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
Spanish 230, 231, 232	12	Latin American Anthropology	8
Science, English 220	8*	Political Science 481, 493	8
History 281, 282	8	Minor	16
Psychology 231	4	Geography 451	4
Minor	16	Education 441, 442, 443	12
Physical Education	(3)		

In addition to the Latin American Studies major (which is not recognized as a major for certification, each student in this program is required for certification purposes to complete (a) one major and one minor, or (b) three minors. In addition to the approved majors and minors available to other secondary B.S. in Education students, the following special minors are recognized for students in the Latin American Studies program only. With regard to the work in Spanish (or Portuguese) the student has three options: (1) some major other than Spanish (or Portuguese), and a Spanish (or Portuguese) minor, (2) three minors including a Spanish (or Portuguese) minor, (3) a Spanish (or Portuguese) major (requiring satisfactory completion of the fourth year's work), and one minor.

	Qtr. Hrs.
Latin American Studies History Minor	
Latin American History, European History, and American History	40
Latin American Studies English Minor	
English 120, 121; Speech 131; and 24 qtr. hrs. selected from the following:	
English 126, 220, and literature courses except English 322	36
Latin American Studies Social Studies Minor including a minimum for certification in one or more of the following subjects as follows:	
Political Science (including Pol. Sci. 110, 111)	36
Economics	16
Sociology-Anthropology (including 271)	12
Geography	12

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

MATHEMATICS

FRESHMAN YEAR		JUNIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 120, 121	8	Mathematics 343, 344, 340	12
Speech 131, H. Ed. 120	8	Mathematics 470, 471	8
Mathematics 130, 131, 134 or 131,		Minor	1*
134, 235, or 134, 235, 236 ^{1, 2}	12	General Requirements	8*
Mathematics 225, elective	8	Education 332, 333	8
General Requirements	12*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Qtr. Hrs.		Qtr. Hrs.	
English 220	4*	Education 445	4
Mathematics 235, 236, 345 or 236,		General Requirements and/or electives	32-28*
345, (350) or 345, (350), (351) ³	12	Education 441, 442, 443, (444)	12-16
Mathematics 227 and/or 228	4-8		
Minor	12		
General Requirements	8-12*		
Psychology 231	4		
Physical Education	(3)		

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

¹ The sequence 130, 131, 134 should be taken unless the student has had four years of college preparatory mathematics in high school and the permission of the mathematics department given on the basis of a placement test score to omit Mathematics 130 and/or 131.

² Requirement for a major in mathematics is 48 q. hrs.: (a) Mathematics 225, 134, 227 or 228, 235, 236, 340, 343, 344, 345, 470, 471, and (b) Mathematics 350 or 460 or 480 or 490. In planning it is important to check prerequisites.

³ Mathematics 350 and 351 are not required in the mathematics major; they are recommended electives in the sophomore year for those students who complete Mathematics 345 in the fall or winter quarter.

MUSIC*1. General Music Program*

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Music 351, 352, 353 ¹	12
Speech 131, H. Ed. 120	8	Music 205, 449, 450	8
Music 123, 124, 125	6	Music 347, 339, 340	12
Music 146, 147, 148	6	Applied Music	6
Music 126, 127, 128	3	Ensemble	3
Applied Music	3	Education 332, 333	8
Mathematics	4*	General Requirements	4*
General Requirements	12*		
Physical Education	(3)		

SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Music 230, 231, 232	12	Music 453	4
Music 200, 201, 204	6	Applied Music	6
Music 136, 137, 138	3	Ensemble	3
Ensemble	3	General Requirements	20-16*
Applied Music	4	Education 445	4
Physics 120, 121, 122	12	Education 441, 442, 443, (444)	12-16
English 220	4*		
Psychology 231	4		
Physical Education	(3)		

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

Recommended advanced electives in Music are as follows: Education 444 and Music Ed. 454,

¹ Humanities requirements partially met through Music 351, 352, 353, 451, 455, 460, Ensemble, and Applied Music.

2. Vocal Emphasis

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Music 351, 352, 353	12
Speech 131, H. Ed. 120	8	Music 342, 449, 450	8
Music 126, 127, 128	3	Music 339, 347	8
Music 123, 124, 125	6	Applied Music	6-9
Music 146, 147, 148	6	Ensemble	2-3
Applied Music	3	Education 332, 333	8
General Requirements	12*	Elective	4
Mathematics	4*		
Physical Education	(3)		

SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220	4*	Music 453	4
Music 200, 204	4	Music 442	2
Music 230, 231, 232	12	Applied Music	6
Music 243, 244, 245	3	Ensemble	2
Applied Music	3	General Requirements	20-16*
Ensemble	2-3	Education 445	4
Physics 120, 121, 122	12	Education 441, 442, 443, (444)	12-16
General Requirements	4*		
Psychology 231	4		
Physical Education	(3)		

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

NOTE:

Humanities requirements partially met through Music 351, 352, 353, and remaining general requirements are taken where electives are indicated.

Recommended advanced electives in Music are as follows: Education 444 and Music Ed. 451, 454, 455, 460, Ensemble, and Applied Music.

3. Instrumental Emphasis

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Music 351, 352, 353	12
Speech 131, H. Ed. 120	8	Music 205, 449, 450	8
Music 123, 124, 125	6	Music 347, 340, 453	12
Music 146, 147, 148	6	Applied Music	6
Music 126, 127, 128	3	General Requirements	4*
Applied Music	3	Ensemble	3
Mathematics	4*	Education 332, 333	8
General Requirements	12*		
Physical Education	(3)		

SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Music 230, 231, 232	12	Music 455	4
Music 200, 201, 204	6	Applied Music	6
Music 136, 137, 138	3	Ensemble	3
Applied Music	4	General Requirements	20-16*
Ensemble	3	Education 445	4
Physics 120, 121, 122	12	Education 441, 442, 443, (444)	12-16
English 220	4*		
Psychology 231	4		
Physical Education	(3)		

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

NOTE:

Humanities requirements partially met through Music 351, 352, 353, and remaining general requirements are taken where electives are indicated.

Recommended advanced electives in Music are as follows: Education 444, Music Ed. 451, 454, 455, 460, Ensemble, and Applied Music.

PHYSICAL EDUCATION*Men*

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Coaching Courses ²	12
Speech 131, H. Ed. 120	8	Physical Education 340	4
Physical Education 120, 121, 150	12	Physiology 345	4
Zoology 120, 121, 225	12	General Requirements and/or electives	20*
Mathematics	4*	Education 332, 333	8
General Requirements	4*		
Physical Education	(3)		

SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220	4*	Physical Education 451, 452	8
Physical Education 244, 227	8	Minor	12
Physical Education Activities ¹	4	General Requirements	12-8*
Minor	12	Education 445	4
General Requirements	16*	Education 441, 442, 443, (444)	12-16
Psychology 231	4		
Physical Education	(3)		

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

¹ One course to be selected from P.E.M. 203, 204, 205, 206, 207, 208, and one course selected from P.E.M. 210, 211, 212, 213, 214, 215, 217, 218. In addition, a student must demonstrate proficiency in six activities other than those selected.

² Three courses selected from P.E.M. 347, 348, 349, 350, 357, 358, 359, 360, with at least two of these courses selected from P.E.M. 347, 348, 349, 350.

Students majoring in Physical Education (men) are required to student teach in their minor subject.

Women

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Physical Education 346, 336, 353	12
Speech 131, H. Ed. 120	8	Physical Education 450, 451, 456	12
Physical Education 130, 131, 132	12	Physiology 345, H.Ed. 320	8
Zoology 120, 121, 225	12	General Requirements	8*
General Requirements	8*	Education 332, 333	8
Physical Education (Two activities each quarter)**	(6)	Physical Education (Two activities each quarter)**	(6)
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220, Mathematics	8*	General Requirements and/or electives	32-28*
Physical Education 235, 252, 233, 234	16	Education 445	4
Physical Education MPE 244	4	Education 441, 442, 443, (444)	12-16
General Requirements	16*	Physical Education (Two activities for two quarters)**	(4)
Psychology 231	4		
Physical Education (Two activities each quarter)**	(6)		

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

**To be determined by departmental curriculum.

PHYSICS

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Physics 341, 342, 340	12
Speech 131	4	Physics Elective ^b	8
Physics 130, 131, 132	12	General Requirements and/or Elective ^b	20*
Mathematics 134, 235, 236 ¹	12	Education 332, 333	8
Elective year (Preferably Chemistry) ²	12		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220	4*	Physics ⁵	12
Physics 236, 239, 240	12	General Requirements and/or Electives ⁶	20-16*
Mathematics 345, 350, 351 ³	12	Education 445	4
General Requirements or Elective ⁴	12*	Education 441, 442, 443, (444)	12-16
Psychology 231, H. Ed. 120	8		
Physical Education	(3)		

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

¹ Depending upon mathematics placement test. See mathematics section.

² The 120 or 150 series depending upon high school chemistry.

³ Mathematics required through 345, and 350, 351 and/or 460, 461 or approved electives.

⁴ Chemistry recommended.

⁵ Physics 250, 480, 460. Physics 465 and a minimum of one each of 461 or 462, 466 or 467, 468 or 469 are also required.

⁶ Completion of mathematics requirement, or biological science which is recommended.

SOCIAL SCIENCE MAJOR: HISTORY MINOR

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121; Speech 131	12	General Requirements	16
Pol. Sci. 110, 111, 112 or 100	12	Advanced Social Science	12
History 233, 234, 235	12	Social Science 340	4
General Requirements	12*	English 220, Mathematics 220	8*
Physical Education	(3)	Education 332, 333	8
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Economics 254, 255, 256	12	Advanced History	12
History 246, 247, 248	12	General Requirements	4-12*
Sociology 271, 727	8	Advanced Social Studies	16
Anthropology 273, Psych. 231	8	Education 445	4
Geography 150; Health Edu. 120	8	Education 441, 442, 443, (444)	12-16
Physical Education	(3)		

*Subject to exemptions as outlined in the General Requirements for the degree. A student who has less than eight quarter hours of exemptions cannot complete this major unless he takes an overload or attends one summer term.

SPEECH CORRECTION

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Speech Corr. 451, 452, 453, 458, 457 (2)	18
Speech 131	4	Education 332, 333, Psych. 360	12
Theater Arts 132, 133	8	General Requirements	8*
Health Education 120	4	Elective	12
Zoology 120, 121, 225	12		
General Requirements	12*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220, Mathematics	8*	Speech Corr. 455, 456, 457 (2)	10
Speech Corr. 254, 260	8	Psychology 450, 451	8
General Requirements	24*	Education 469, 445	8
Psychology 231, Elective	8	Electives	12-8
Physical Education	(3)	Education 441, 442, 443, (444)	12-16

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

SPEECH

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Theater Arts 257	4
Speech 131	4	Speech 230, 332, 340, 470, 471	20
Theater Arts 132, 133	8	Speech 352 or Theater Arts 333	4
Natural Science	12	Education 332, 333, 445	12
General Requirements	12*	Minor	8
Mathematics	4*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Speech 232	4	Theater Arts 445	4
Theater Arts 244	4	General Requirements and/or Electives	32-28*
Speech Corr. 260	4	Education 441, 442, 443, (444)	12-16
Minor	16		
Health Education	4		
General Requirements	8*		
Psychology 231	4		
English 220	4*		
Physical Education	(3)		

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

THEATER ARTS

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Speech 332, 352, 340	12
Speech 131	4	Theater Arts 357, 358	8
Theater Arts 132, 133	8	Theater Arts 445, 333	8
Natural Science	12	Education 332, 333, 445	12
General Requirements	12*	Minor	8
Mathematics	4*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Speech 232	4	Theater Arts 473	4
Theater Arts 244, 257	8	General Requirements and/or Electives	32-28*
Minor	16	Education 441, 442, 443, and (444)	12-16
Health Education 120	4		
General Requirements	8*		
Psychology 231	4		
English 220	4*		
Physical Education	(3)		

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

ZOOLOGY

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Zoology 343, 340, 350	12
Speech 131, H. Ed. 120	8	Botany 230, 231, 232 or 335	12
Zoology 110, 111, 212	12	General Requirements	16*
Chemistry 120, 121, 122 or 150, 151, 152	12	Education 332, 333	8
General Requirements	8*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 220, Mathematics	8*	Zoology 445	4
Zoology 214, 215, 336	12	Botany (advanced elective)	4
Botany 120, 121, 222	12	Advanced Zoology Elective	12
Geography 140	4	General Requirements and/or	
General Requirements	12*	Electives	12-8*
Psychology 231	4	Education 445	4
Physical Education	(3)	Education 441, 442, 443, (444)	12-16

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

MANUAL ARTS THERAPY

(Degree, Bachelor of Science in Education)

FRESHMAN YEAR		JUNIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
English 120, 121	8	Industrial Arts 340, 336, 326, 352, 354	20
Speech 131	4	Sociology	12
Health Education 120	4	Psychology, advanced	4
General Requirements	12*	Education 332, 333	8
Industrial Arts 134, 135, 136, 150	16	General Requirements	4*
Mathematics	4*		
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
	Qtr. Hrs.		Qtr. Hrs.
Psychology 231	4	Psychology, advanced	8
Industrial Arts 231, 232, 259, 260, 245, 265	20	Recreational Crafts	4
General Requirements	24*	Student Teaching and Internship	16
Physical Education	(3)	Education 445	4
		General Requirements and/or 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 and should satisfy every requirement for teaching the subject in an approved school in Illinois. It should be noted, however, that certification to teach in a general field (e.g. Business, Social Science, etc.) may not permit the teaching of a specific subject in that field. For details consult Bulletin No. 147 prepared by Office of Superintendent of Public Instruction. A four hour methods course must be taken in the major (except where covered in the course work) and also in the minor if ruled dissimilar by the Vice President for Instruction.

Art:

Eight courses in Art. Art 100 or 101, 205, 110 or 111 or 140, 225 or 270 or 334, 244 or 340, 160 or 260 or 262 or 360 or 361 or 362, and eight hours elective credit in Art.

Biological Science:

Botany: Botany 120, 121, 222, 335 plus two electives and Zoology 110, 111, 212 or 120, 121, 122.

Zoology: Zoology 110, 111, 212 or 120, 121, 122; Zoology 214 or 225; Zoology 343; Physiology 345 or 350 and Botany 120, 121, 222.

Botany and Zoology: Botany 120, 121, 222, 234 or 335; Zoology 110 or 120; Zoology 111 or 122; Zoology 343; Physiology 345 or 350 and elect four hours in either Botany or Zoology.

Biology: An 8 or 12 hour sequence in Life Science or Biology plus the following additional work in Botany and Zoology which must total 36 hours:

Plan A—Twelve hour sequence—Biology 126, 127, 128; Botany 218, 234 plus one Botany elective; Zoology 343; Physiology 350 plus one Zoology elective.

Plan B—Eight hour sequence—Life Science 116, 117; The same as Plan A but with one additional elective in either Botany or Zoology.

Zoology 111 or 122 may be substituted for Life Science 117 or Biology 128.

Business:

Secretarial: Eight courses in business. Choose three of Business 110, 111, 112, 210, 211; Choose three of 123, 124, 125, 223, 224, 225 plus 212, 472 or 473.

Typewriting and Bookkeeping: Eight courses in business. Choose three of 110, 111, 112, 210, 211 and 230, 231, 232, 212 and 470 or 473.

Bookkeeping, General Business, and Business Law: Eight courses. 230, 231, 232, 141, 142, 446, 447, and 470 or 471.

General Business, Salesmanship, Retailing, and Business Law: Eight courses. 140, 247, 248, 249, 250, 446, 447, 471.

Chemistry:

Nine courses. Chemistry 120 or 150, 121 or 151, 122 or 152; Chemistry 234, 343, 344, plus three additional courses in Chemistry and/or Physics.

English:

Nine courses. English 120, 121, 245, 246, 247, 326 or 327, Speech 131 and two courses in English or American Literature.

Foreign Language:

Each minor must consist of the third course in the first year of the language plus 20 quarter hours in more advanced courses in the language. Total-24 quarter hours plus credit in high school or college for pre-requisites to the third quarter of first year.

Geography:

Nine courses in Geography. Geography 140, 141, 142, 151 and five courses recommended by the department; or geography 300, 301, 302 and six courses recommended by the department. (To meet state requirements for teaching geography three additional courses are required from history, economics, sociology, or political science)

Health Education:

Eight courses. Health Education 120, 320, Men's Physical Education 227, Physiology 345, Psychology 455, plus one or two courses from Biology 126, 127, 128, Zoology 120, 121, 225 and courses to make a total of eight chosen from Home Economics 102, Botany 234, 235, Women's Physical Education 131, 300, and Health Education 330.

History:

Nine courses. Any three of History 244, 245, 246, 247, 248; History 233, 234, 235 and three courses of advanced History electives.

Home Economics:

Thirty-six hours in Home Economics. H.Ec. 101, 210, 211, 231, 245, 303, 346 or 347 and twelve hours elected from 131, 230, 320 or 420, and 346 or 347.

Industrial Arts:

Thirty-six quarter hours. Industrial Arts 134, 140, 150, 231, 259, 341, 452 plus eight hours to be chosen from one of the following sequences 135, 336 (Woods); 232, 233 (Drawing); 260, 360 (Printing); or 352, 354 (Metals).

Journalism:

Nine courses in journalism and composition. Journalism 210, 211, 212, 310, 311, and 312. Plus three courses in composition—English 120, 121, and 220 or any advanced composition course taught within the English Department. English majors may qualify for certification to teach journalism by completing the 24 quarter hours offered in journalism courses. Persons majoring in all other fields must complete the 36-quarter hours described above.

Library Science:

Twenty-four quarter hours of Library Science, including Library 320, 430, 450 and 460. Students intending to minor in the field should work out their programs with the instructor.

Mathematics:

Mathematics 134, 225 or 343, 227 or 228, 235, 236, 340, 345, 470. The methods course, 340, may be omitted if the minor includes both 225 and 227. Students who omit 130 and 131 and include both 225 and 227 may complete a minor by taking seven courses. Such students will be given, if they so request, for certification purposes only two quarter hours of credit for their advanced work in high school mathematics. (Thirty quarter hours are required for certification in mathematics.)

Music:

High School Vocal Music: Music 123, 124, 125, 230, 231, 340, 353, 449 plus four quarter hours of piano and six quarters of voice and ability to develop choral organizations as demonstrated through supervised teaching; participation in university choral organizations each year of residence.

Instrumental Music: Music 123, 124, 125, 230, 231, 146, 147, 200, 204, 205, 201, 353, 449, plus four quarter hours of applied instrumental music and ability to teach beginning pupils in band and orchestra instruments and ability to develop instrumental organizations effectively as demonstrated through supervised teaching in the laboratory school; participation in the band and orchestra in each year of residence.

Physical Education, Men:

Nine courses in Physical Education. P. E. M. 120, 227, 340, and 452; one course to be chosen from P. E. M. 203, 204, 205, 206, 207 or 208; one course to be chosen from P. E. M. 210, 211, 212, 213, 214, 215, 217, or 218; twelve quarter hours in additional courses to be chosen from P. E. M. 121, 244, 347, 348, 349, 350, or 451. A student minoring in Physical Edu-

cation (Men) must demonstrate proficiency in four (4) physical education activities.

Physical Education, Women:

Eight courses in Physical Education. WPE 346, 353, 458, 233 or 234, H.Ed. 120 or 320 or MPE 227, plus three courses chosen from WPE 130, 131, 132, 233, 234, 252, 336, 351, 355, 356, MPE 227, 244, 351 and H.Ed. 320. Minors are expected to register for one activity each term of residence until eleven have been satisfactorily completed. Minors are expected to participate in the activities of the Women's Athletic Association.

Physics:

Nine courses. Physics 130, 131, 132, three courses approved by the Physics Department plus three additional courses in Physics and/or Chemistry.

Psychology:

Eight courses including Psychology 231, 351, and one or both of 352 and 447. The remaining psychology courses should be selected with the view of filling both the academic interests and professional aims of the student.

Safety and Driver Education:

Twenty-four quarter hours and to be used only as a second minor. H.Ed. 330, 331, 332, and 12 hours to be chosen from the following: H.Ed., 320, P. E. M. 227, 461, 131, 300, Psychology 447, 455, or Political Science 112, 464.

Social Science:

Nine courses. Twenty-four quarter hours shall include at least two of the following sequences: Political Science 110, 111 plus 112 or 220 or 221 or 222; Economics 254, 255, 256; Anthropology 273, Sociology 271, 272.

The remaining twelve hours shall be chosen from Anthropology, Economics, Geography, History, Political Science, and Sociology.

Speech:

General speech: Theater Arts 132, 133, 445, Speech Correction 260, Speech 232, 340, 131 and English 120 and 121.

Public Address: Theater Arts 132, 133, Speech 230, 232, 332, 340, 131 and English 120 and 121.

Theater Arts:

Theater Arts: 132, 133, 244, 257, 445, Speech 340, 131 and English 120 and 121.

Zoology: (See Biological Science)

VIII. GENERAL COLLEGE CURRICULA

The aim of the various General College Curricula is to provide a sound general education and a measure of specialization to students who wish to use the facilities of Eastern Illinois University for this purpose and who do not wish to prepare for a career in teaching.

The College of Letters and Science has general jurisdiction over the B.A. and B.S. degree curriculum programs as well as the various two-year curricula, for the Division of Latin American Studies which offers an interdepartmental major in Latin American Studies, and for the Division of Pre-Medical Studies which administers the curriculum for Medical Technology and the pre-professional curricula in the fields of Dentistry, Medicine, Pharmacy, Optometry, and Veterinary Medicine as shown near the close of this section of the catalog.

The student's adviser will help in making decisions concerning the choice of courses and altering the sequence when necessary, but it is the responsibility of the student to satisfy all of the requirements for the degree, to check his eligibility to take courses, and to observe the academic rules governing his program.

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

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.
Natural Science	24 q. hrs.	12 q. hrs.
History	16 q. hrs.	16 q. hrs.
Social Studies (except history)	16 q. hrs.	16 q. hrs.
Humanities (except foreign language)	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.
Physical Education Service Courses	(6 q. hrs.)	(6 q. hrs.)

Credit listed in parenthesis 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. Majors may be taken in any department which offers a major and students should consult the heads of the departments concerning requirements.

III. Definitions and Restrictions

Natural 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 are required for the degree Bachelor of Science while twelve quarter hours in one field are required for the degree Bachelor of Arts, both requirements being subject to provisions of exemptions outlined in Section IV.

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

Social Studies (except history). 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 (except foreign language). 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. Where an approved course in literature in a foreign language is offered toward the humanities requirement it may not simultaneously count toward the requirement in foreign language.

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 4 q. hrs. for each acceptable unit to a maximum of 8 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.

DIVISION OF PRE-ENGINEERING STUDIES

Combined Liberal Arts and Engineering Program

(Degree B.A. or B.S.)

This program includes approximately three years of study at Eastern Illinois University and approximately two years in the College of Engineering at the University of Illinois. The successful completion of the five-year program, made possible by an agreement with the University of Illinois, leads to a Bachelor of Science degree in some branch of engineering from the College of Engineering, University of Illinois, and a Bachelor of Arts or Bachelor of Science degree from Eastern Illinois University.

The purpose of this program is to provide engineering students with a broader background in liberal arts than is possible in the four-year engineering curricula. Graduates of this program will be well qualified for responsible positions in industry, business, or government, which require a combination of a thorough technical training and well-rounded cultural education.

Students planning to enroll in this curriculum are advised to include in their high school programs the high school subjects listed with the Pre-engineering Curriculum. The requirements at Eastern Illinois University include all the requirements for graduation with the degree Bachelor of Arts or Bachelor of Science except the requirement of a major and a minor and the requirement of 192 quarter hours of credit. The credits at Eastern must total 144 quarter hours (not including credits in required physical education courses) and shall include:

- (1) All the general requirements of the degree;
- (2) the following courses:
Chemistry 150, 151, 152, or (120, 121, 122)
Physics 130, 131, 132, 236, 239, 240
Mathematics 134, 235, 236, 345, 350, 351 or 460
Industrial Arts 131
- (3) Humanities sequence
- (4) Social Science sequence.

The general requirements (1 above) for each degree are listed at the beginning of this section in the catalog and are subject to modification by exemptions as described there. The general requirements in physical science and mathematics are fulfilled by the required courses listed under (2). The humanities sequence (3) and the social science sequence (4) must be chosen from lists which will be furnished by the student's adviser.

After completing 96 quarter hours in the curriculum, a student may apply to the Pre-engineering Committee for admission as an Engineering Candidate. To be admitted the student must

have a grade point average of not less than 2.5 and be approved by the committee. The student must maintain the 2.5 grade point average in order to continue as an Engineering Candidate.

Upon satisfactory completion of the above requirements at Eastern Illinois University, a candidate who transfers to the College of Engineering, University of Illinois, and who receives a bachelor's degree there is eligible for a degree from Eastern Illinois University. This degree, Bachelor of Science or Bachelor of Arts, would be given with a "concentration" in science and engineering (in lieu of a major and minor). This does not rule out the possibility that a student might complete the requirements for one or more majors or minors and have these listed on his permanent record.

Students transferring into this curriculum from another college or university must have been in residence at Eastern Illinois University for at least one quarter before they may be admitted as an Engineering Candidate. A total of at least 64 quarter hours must be completed in residence on this campus.

DIVISION OF PRE-MEDICAL STUDIES

Pre-Medical Curricula

(Degree B.A. or B.S.)

PLAN 1. This is a program by means of which a student who completes approximately three years of work at Eastern Illinois University and who transfers to the University of Illinois College of Medicine would upon completion of the required work be granted a B.A. or B.S. degree from Eastern Illinois University with major in zoology and a minor in chemistry. Students who enter other medical schools will be considered on an individual basis.

The requirements for graduation are as follows:

- (a) At least 144 quarter hours of undergraduate credit (not counting nominal credits and not including credits earned in fulfillment of requirement (d) below).
- (b) The completion of the general requirements for the degree, excluding Health Education 120.
- (c) *Undergraduate credits will include:*
Chemistry 150, 151, 152 (or 120, 121, 122)
Chemistry 343, 344, 234
Zoology 120, 121, 222, 230, 346 (110, 111, 212, 214, 215)
Physics 130, 131, 132
- (d) The successful completion of the first year at the University of Illinois College of Medicine.

Eastern Illinois University will accept 48 quarter hours of credit from the first year at the University of Illinois College of Medicine, providing that:

- (a) The student is in good standing in the College of Medicine.
- (b) The work taken at the College of Medicine does not duplicate work taken in pre-medical courses.
- (c) The student has completed his last 64 quarter hours of pre-medical study as a resident student at Eastern Illinois University.
- (d) The student meets all requirements for graduation from Eastern Illinois University for a B.A. or B.S. degree.

The following are the College of Medicine courses accepted by Eastern Illinois University:

- (a) Biochemistry 301, 302, and 303, consisting of 66 hours in lecture and 88 hours in laboratory for a total of 9 quarter hours.
- (b) Physiology 301, 302, and 303, consisting of 90 hours in lecture and 149 hours in laboratory, to be applied to a zoology major for a total of 15 quarter hours.
- (c) Histology, consisting of 64 hours in lecture and 160 hours in laboratory, to be applied to a zoology major for a total of 12 quarter hours.
- (d) Gross Anatomy, consisting of 64 hours in lecture and 160 hours in laboratory, to be applied to a zoology major for a total of 12 quarter hours.

PLAN 2. This is a curriculum by means of which the student may earn a B.A. or B.S. degree at Eastern Illinois University before entering medical school. In this plan the student is required to complete all of the requirements for the degree of Bachelor of Science or Bachelor of Arts, with the exceptions of the major and minor requirement and Health Education 120. In lieu of a major and a minor, the student will complete an inter-departmental major, called the Premedical Studies major, as follows:

Chemistry 150, 151, 152 (or 120, 121, 122) 234, 343, 344
 Chemistry electives—12 quarter hours
 Zoology 120, 121, 222, 230, 346 (110, 111, 212, 214, 215)
 Zoology electives—16 quarter hours
 Physics 130, 131, 132
 Mathematics 134, 235, 236

It should be noted that a student has the option of completing the B.A. or the B.S. degree with a departmental major and minor as has been done for some years.

Students in the pre-medical curricula (Plan 1 or Plan 2) will be required to make application for admission as Pre-medical Studies Degree Candidates at any time after completing 60 quarter hours and before completing 84 quarter hours of credit. These applications will be approved or disapproved by the Pre-medical Committee who will consider:

1. Scholarship
 - (a) not less than a 2.5 grade point average
 - (b) grades in science courses
2. Impressions and findings resulting from a personal interview
3. The advice of the University Physician as to the physical fitness of the candidate

Students not approved as candidates will be dropped from enrollment in the Division and enrolled in the department of a major.

Students who fail to maintain a 2.5 average (based on credits at Eastern) will be transferred out of the Division and to the department of a major.

Transfer students must have been in residence at Eastern Illinois University for at least one quarter before they may be admitted as Pre-medical Studies Degree Candidates. They must complete at least 64 quarter hours in residence on this campus.

Students who expect to complete a B.A. or a B.S. degree with a departmental major and minor before entering medical school will be enrolled in the department of the major and should register as "affiliate members" of the Division of Pre-medical Studies. They should consult with the Chairman of the Division on matters pertaining to medical school requirements.

Medical Technology

(Degree, B.S.)

Effective January 1, 1962, the pre-technical educational requirements for admission to a school of medical technology were increased from two years to three years. The student follows a prescribed three-year program here at Eastern and then transfers to an affiliated school of medical technology. After completion of the course in medical technology, the student is granted the B.S. degree from Eastern Illinois University.

FIRST YEAR		THIRD YEAR	
English 120, 121	Qtr. Hrs. 8	Botany 335 (Bacteriology)	Qtr. Hrs. 4
Speech 131	4	Foreign Language	12
Health Education 120, Botany 120	8	Chemistry 343, 344	8
Zoology 120, 121	8	Zoology 227 or 451	4
Mathematics 130, 131 ¹	8	General Requirements	
Chemistry 120, 121, 122 or 150, 151, 152	12	(Humanities and Social Studies) and electives	20*
Physical Education	(3)		
SECOND YEAR		FOURTH YEAR	
Foreign Language	Qtr. Hrs. 12	Completion of Medical Technology in affiliated hospital program	Qtr. Hrs. 48
Chemistry 234	4		
Zoology 225 (Anatomy)	4		
Psychology 231	4		
General Requirements (Humanities and History)	20*		
Physical Education	(3)		

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

¹Four hours of Mathematics required regardless of exemptions.

DIVISION OF LATIN AMERICAN STUDIES

(Degree, B.A.)

The curriculum in Latin American Studies is designed to give the student a background in the language, customs, literature, and history of Latin-American that will enable him to function adequately in the area. If a student chooses to prepare for a specific career in Latin-American, electives are provided to allow for this. No minor is required for this degree, but if a student chooses to complete a minor, he should confer with his adviser.

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121, Speech 131	Qtr. Hrs. 12	Spanish 336, 337, 338	Qtr. Hrs. 12
Spanish 130, 131, 132	12	Mathematics	8
Health Education 120	4	Political Science	8
General Requirements	8*	Geography 351, 451	8
Elective (year)	12	General Requirements and/or Electives	12*
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Spanish 230, 231, 232	Qtr. Hrs. 12	History 464, 465	Qtr. Hrs. 8
Natural Science	12	Sociology	4
History 281, 282	8	Anthropology	4
Electives	16	Electives	32
Physical Education	(3)		

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

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, 222 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 150, 151, 152, or 120, 121, 122, and one of the following sequences:

Chemistry 234, 235, 361; Chemistry 234, 343, 344; Chemistry 343, 344, 345; Chemistry 234, 343, 356; Chemistry 234, 491, 492.

English:

English 245, 246, 247, 326 or 327, plus two upper division courses in American or English literature.

Foreign Language:

Two years work in a language.

Geography:

Geography 141, 142, 150, and three courses approved by the head of the department.

History:

Twenty-four quarter hours in history.

Industrial Arts:

Choose any three of the following sequences for 24 quarter hours: 134 and 135, 231 and 232, 259 and 260, 140 and 352, 150 and 300, 380 and 382, 245-265 and 452.

Journalism:

Journalism 210, 211, 212, 310, 311, 312.

Mathematics:

Mathematics 134, 235, 236, 345 and two of the following courses: 225, 233, 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 Directors of the School of Music.

Philosophy:

Philosophy 300, 301 and 305 or 306 plus three courses approved by the head of the department.

Psychology:

Psychology 231, 351, and 16 quarter hours in psychology courses approved by the head of the psychology department.

Physics:

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

Social Science:

Economics: Six courses including Economics 254, 255, 256.

Sociology: Six courses including Anthropology 273, Sociology 271, 272.

Political Science: Six courses including Political Science 110, 111, and 112 or 100.

Speech:

General speech: Theater Arts 132, 133 and four additional courses approved by the head of the department.

Theater Arts:

Theater Arts 132, 133 and four 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.

THE SCHOOL OF BUSINESS

The School of Business, established in 1962, offers work toward the following degrees:

1. Bachelor of Science in Education, a professional degree, with a major in business education (See Teacher Education Curricula).
2. Bachelor of Science in Business, a professional degree, with majors in accounting, management, marketing, and secretarial studies.
3. Bachelor of Science, a general degree, with a major in business (See B.S. Degree).
4. Bachelor of Arts, a general degree, with a major in business (See B.A. Degree).
5. Master of Science in Education, a professional graduate degree, with a major in business education (See Section on Graduate Study).

B.S. IN BUSINESS DEGREE

Majors: Accounting, Management, Marketing, Secretarial

FRESHMAN YEAR		JUNIOR YEAR	
English 120, 121	Qtr. Hrs. 8	Business 346, 347, 351	Qtr. Hrs. 12
Speech 131	4	Major	12
Natural Science	12	Humanities	12*
Business 141, 142, 247	12	Social Science	8*
Elective	12	Elective	4
Physical Education	(3)		
SOPHOMORE YEAR		SENIOR YEAR	
Business 230, 231, 232	Qtr. Hrs. 12	Business 481, 482	Qtr. Hrs. 8
Economics 254, 255, 256	12	Major	12
Health Education 120	4	Humanities	12*
Mathematics	4*	Elective	16
Natural Science	4*		
English 220	4		
Elective	8		
Physical Education	(3)		

*Subject to exemption as outlined in the general requirements for the degree B.S. in Education.

Courses required to complete the majors:

Accounting: Business 354, 355, 356, 460, 461, 464

Management: Business 330, 383, 452, 453, 460, 463

Marketing: Business 248, 249, 250, 486, 487, elective in business

Secretarial: Business 223, 224, 225, 212, 453, 383

Note: Not more than half the credits presented by the candidate for the B.S. in Business at graduation may be in business courses.

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

English 120, 121; Speech 131
Laboratory Science¹ (Year)
Elective² (24 q. hrs.)
Physical Education

SECOND YEAR

History 233, 234, 235
Foreign Language³ (Year)
Elective⁴ (Year)
Elective⁵ (Year)
Physical Education

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

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

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

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

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

PRE-ENGINEERING CURRICULUM

Students planning to enroll in pre-engineering are advised to include the following subjects in their high school programs.

Mathematics 4 or more units, including trigonometry
Science 3 or more units, including chemistry and physics
Foreign Language¹ 2 or more units, including two units in the same language

Students deficient in any of these courses should expect their graduation from a College of Engineering to be delayed unless they take steps to avoid it. It is suggested that students avoid the delay by attending one or more summer quarters.

FIRST YEAR

English 120, 121, Ind. Arts 131
Mathematics 134, 235, 236²
Physics 130, 131, 132
Chemistry 150, 151, 152, or (120, 121, 122)

SECOND YEAR

Mathematics 345, 350, 351
Physics 236, 239, 240
Humanities (12 q. hrs.)³
Social Science (12 q. hrs.)³

¹Students who do not have two years in the same foreign language in high school should add to these courses 12 quarter hours in a foreign language.

²See Note 1 under mathematics, preceding the description of the mathematics courses.

³It is recommended that the humanities and social science requirements be met from lists which will be furnished by the adviser.

COURSES BASIC TO CHEMICAL ENGINEERING

FIRST YEAR

Chemistry 150, 151, 152¹
English 120, 121
Ind. Arts 131 or 231
Math 134, 235, 236²
Physics 130, 131, 132³
Physical Education (year)

SECOND YEAR

Chemistry 343, 344, 345
Math 345, 350, 351
Physics 236, 239
Speech 131 (or elective)⁴
Foreign Language (one year French, German, or Russian)
Physical Education (year)

¹Chemistry 120, 121, 122 should not be substituted unless the student lacks the prerequisites for Chemistry 150, 151, 152.

²See Note 1 preceding the description of the Mathematics courses.

³Students lacking two units in high school German, French, or Russian should enroll in one of these foreign languages and postpone Physics 130, 131, 132 to the second year.

⁴Physics 130, 131, 132 should be substituted here if note 3 substitution above was followed in the first year.

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

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, 222
Chemistry 120, 121 or 150, 151;
Geography 140
Physical Education (Year)

SECOND YEAR

Physics 130, 131
Geography 141, 142, 380, 387
Industrial Arts 231, 232
Botany 461
History 234, 235, Elective
Physical Education (Year)

COURSES PREPARATORY TO THE STUDY OF DENTISTRY

The courses in this curriculum will enable the student to become a candidate for admission to most schools of dentistry. It is strongly urged that students complete three years of pre-dental work at Eastern. All applicants will be required to take a dental aptitude test given by the American Dental Association.

FIRST YEAR

Chemistry 120, 121, 122 or
150, 151, 152
English 120, 121
Speech 131
Mathematics 130, 131
Zoology 120, 121, 225
Electives
Physical Education

Qtr. Hrs.

12
8
4
8
12
4
(3)

SECOND YEAR

Chemistry 343, 344, 234
Physics 130, 131, 132
Physical Education
Electives

Qtr. Hrs.

12
12
(3)
24

It is recommended that the electives include history, economics, philosophy, sociology and a modern language.

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 programs accordingly.

FIRST YEAR

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

SECOND YEAR

English 260, 261, 250 or 270
Journalism 210, 211, 212
History 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 History 146, 147, 148 are strongly recommended.

³ Following are recommended: Courses from Geography 150, 151, Music 229, Industrial Arts 259, 260, Economics 254, 255, 256, Political Science 100, 110, 111, 112, Sociology 271, 272.

PRE-LAW COURSES

FIRST YEAR

Political Science 110, 111, and 112 or 100
English 120, 121, Speech 131
Health Education 120
Foreign Language (Year)
Mathematics or Literature or Art
or Music (8 quarter hours)
Physical Education (Year)

SECOND YEAR

History 233, 234, 235
Laboratory Science (Year)
Foreign Language (Year)
Economics 254, 255, 256
Physical Education (Year)

Note: Students remaining at Eastern Illinois University for a third year of pre-law studies should take the following: Business 230, 231, 232; History 453, 454; Philosophy 300 and 400; and Literature, Art or Music (0-4 quarters); Foreign Language (0-3 quarters); or Mathematics (0-2 quarters). Elective hours remaining should be chosen under advisement.

COURSES PREPARATORY TO THE STUDY OF NURSING

For students interested in nursing who choose to attend Eastern for one or two years before going on to a hospital school, a program may be planned to include basic courses in chemistry, zoology, English, social studies, and humanities.

For students interested in completing their work in a program of nursing leading to the degree Bachelor in Nursing, it is suggested that they consult with the Director of the School of Nursing that they wish to attend. By following the program recommended by the Director, courses are selected to enable the student to complete at least one year at Eastern, and in some cases two years, before transferring to the School of Nursing without loss of time.

COURSES PREPARATORY TO THE STUDY OF OPTOMETRY

Most schools of optometry require two years of pre-professional work, and the following courses are suggested.

FIRST YEAR	Qtr. Hrs.	SECOND YEAR	Qtr. Hrs.
English 120, 121	8	Physics 130, 131, 132	12
Speech 131	4	Psychology 231	4
Chemistry 120, 121, 122 or 150, 151, 152	12	Electives (Social Studies, Humanities, History)	32
Zoology 120, 121, 225	12	Physical Education	(3)
Mathematics 130, 131, 134	12		
Physical Education	(3)		

PRE-PHARMACY COURSES

ONE YEAR

Chemistry 120, 121, 122 or 150, 151, 152
English 120, 121
Speech 131

Qtr. Hrs.

12
8
4

Mathematics 130, 131, 134
Electives to be selected in terms of the requirements of the College of Pharmacy selected by the student 12

COURSES PREPARATORY TO THE STUDY OF VETERINARY MEDICINE

This two-year program is designed to prepare students for admission to leading schools of veterinary medicine. Four years of professional study, preceded by two years of college study, are required.

FIRST YEAR

Chemistry 120, 121, 122 or 150, 151, 152
English 120, 121
Speech 131
Mathematics 130, 131
Botany 120
Zoology 120, 121
Elective
Physical Education

Qtr. Hrs.

12
8
4
8
4
4
(3)

SECOND YEAR

Chemistry 343, 344, 234
Physics 130, 131, 132
Foreign Language
Physical Education
Electives

Qtr. Hrs.

12
12
12
(3)
12

The recommended electives should include no fewer than two of the following fields: history, anthropology, economics, geography, political science, psychology, or sociology.

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

FIRST YEAR

English 120, 121, Speech 131
Botany 120, 121, 222
Chemistry 120, 121 or 150, 151
Health Education 120, Electives (12 q. hrs.)
Physical Education (Year)
Library 120

SECOND YEAR

Botany 225, 231, 232 or 335
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, 454, 459, 461, 456, Zoology 120, 121, 122, Geography 140, 141, 142, 151, History 233, 234, 235, Economics 254, 255, 256, Industrial Arts 231, 232, 233.

IX. EXTENSION SERVICES

Organization. An extension course will be given in any community where it can be arranged and where a sufficient number of persons 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 \$24.00 for each 4 q. hr. course with an additional charge of \$2.00 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.

For details regarding the extension schedule for the current year, the student is referred to the Extension Bulletin issued in August.

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

X. GRADUATE STUDY

MASTER OF SCIENCE IN EDUCATION DEGREE AIM

It is the purpose of this 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 thirty days before the first registration for graduate courses. Application blanks may be secured from the Dean of the Graduate School.

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 84.)

ADVISER

Each student who wishes to become a candidate for this degree 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.

RESIDENCE REQUIREMENT AND TRANSFER CREDIT

At least thirty-six quarter hours of credit toward the Master's degrees must be earned in residence courses at Eastern Illinois University; the remaining credit may be earned in extension and/or transfer courses. One quarter—either in the regular year or a summer session—must be spent in full-time residence. Residence credit is given for evening and Saturday courses on the campus. No credit is allowed for correspondence courses.

MAXIMUM LOAD

The maximum amount of credit toward the Master's degrees that may be earned in full-time residence in any quarter of the

calendar year is sixteen quarter hours. The maximum that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

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 student teaching required for the degree, B.S. in Ed., in Eastern Illinois University. Usually, one who holds a regular teacher's 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 totaling 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 Council on Graduate Studies together with:
- b. The completion of 12 quarter hours of courses at Eastern Illinois University 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 Council on Graduate Studies 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.

PROGRAM 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: Anthropology 550; Art 550; Botany 550, 551, 552; Business 550; Classics 550, 551 (Literature in Translation); Economics 550; English 550, 551; Geography 550, 551, 552; History 550; Industrial Arts 550; Mathematics 550; Music 550, 551; Philosophy 550; Physical Education 550; Political Science 550; Zoology 550, 551.

THE PAPER

Every candidate who is granted the degree, Master of Science in Education, must present evidence of his ability to conduct an independent study and to report his findings in writing of a quality appropriate to the master's degree level of maturity. The report must be in a style and form acceptable in formal writing. It is recommended that the subject of the paper grow out of an aspect of Group II of the candidate's program of studies. The candidate may elect one of two plans for satisfying this requirement.

Plan A. Candidates electing to complete requirements under this plan may register, and receive four quarter hours of credit toward graduation with the credit included as a part of Group II. The student's adviser may act as adviser for the paper, or another faculty member may, with the consent of the Graduate Dean, be designated to take this responsibility. It is recommended that the paper be read by at least two faculty members other than the adviser before it is given final approval. Candidates who contemplate graduate study beyond the master's degree are urged to elect Plan A.

It is required that the original and first carbon copy of the paper submitted under Plan A, appropriately bound, be deposited in the University Library. An abstract of the Plan A paper is also required.

Plan B. Candidates electing to complete requirements under this plan may submit a term paper from a course in Group II in fulfillment of the requirement. To be acceptable for this purpose, the paper must be so certified by the candidate's adviser and the instructor of the course in which the paper is submitted.

It is required that the original copy of the paper submitted under Plan B, appropriately bound, be deposited in the office of the Dean of the Graduate School.

THE EXAMINATION

An examination is required of all candidates for the degree, Master of Science in Education, during the final term of work. The purposes of the examination are to test the achievement of the student with respect to the purpose of his program of studies and to promote the integration of his studies.

The examination is given by a committee appointed by the adviser. It may be written, or oral, or both written and oral. The passing of the examination must be certified by the adviser at least two weeks before graduation.

MASTER OF ARTS DEGREE

AIM

It is the purpose of this program to provide intensive study designed to develop advanced scholarship in a particular discipline.

FIELDS

Three departments have been authorized to offer the Master of Arts degree—History, Mathematics, and Music.

ADMISSION

The requirements for admission to take graduate courses under the M.A. program are the same as those required for the M.S. in Ed. degree. See p. 141.

ADVISER

The major department shall have the authority to determine the manner of advising its candidates for the M.A. degree.

RESIDENCE REQUIREMENT AND TRANSFER CREDIT

At least thirty-six quarter hours of credit toward the Master's degrees must be earned in residence courses at Eastern Illinois University; the remaining credit may be earned in extension and/or transfer courses. One quarter—either in the regular year or a summer session—must be spent in full-time residence. Residence credit is given for evening and Saturday courses on the campus. No credit is allowed for correspondence courses.

MAXIMUM LOAD

The maximum amount of credit toward the Master's degrees that may be earned in full-time residence in any quarter of the calendar year is sixteen quarter hours. The maximum that may be earned in an academic year by a teacher who is employed full-time is twelve quarter hours; simultaneous enrollment in two or more courses is not permitted.

ADMISSION TO CANDIDACY

While responsibility for admission to candidacy for the Master of Arts rests with the department offering the degree, the University has established certain basic requirements that must be met. These are:

1. Adequate undergraduate preparation in the major field; deficiencies, as determined by the major department, must be made up without credit toward the M.A. degree.
2. The student must petition for admission to candidacy and the proposed program of courses must total at least forty-eight quarter hours. Petition forms may be obtained from the Dean of the Graduate School.
3. The candidate must have completed at least one course in his major field and his grade in that course and all other courses listed on his application for admission must average 3.0 (B).
4. The candidate must not have completed more than 24 quarter hours of his program at the time of filing an application for admission to candidacy.
5. At least twenty-four quarter hours of the proposed program must be in courses numbered 500 and above.
6. When a candidate's program is approved by his department, a copy is placed on file in the Graduate School office. Once on file, the major department is expected to approve changes in the program only for very good reasons. The Graduate School must be notified if any such changes in the program are made.

The department requirements for admission to candidacy may be obtained by communicating with the head of that department.

PROGRAM OF STUDIES

The Master of Arts degree is highly specialized and therefore the candidate is expected to pursue work in a single discipline or major in a field and minor in another closely related one.

Major and Minor—A student's program of courses may be taken entirely in a single field. Or the student may choose a major of 32 to 36 quarter hours and a related minor of 12 to 16 quarter hours. The major and minor must be in single disciplines, not in "areas;" for example, history would be an acceptable major but "social science" would not. A major can be given only by a department which has received approval. A minor may be taken by a student in a discipline in which a major has not been developed. The major or major and minor program selected must total at least 48 quarter hours.

Thesis—Four quarter hours or more of the major shall be reserved for a thesis. An exception to this requirement is made in departments where independent research would be required but the formality of a thesis would be impractical.

Comprehensive Examinations. Each degree candidate must stand a comprehensive oral or written examination or both. This is given by his department and covers his major field. The purpose of the examination is to test rigorously his scholarly attainments in his discipline. The department must remand a student to further work if he fails to perform satisfactorily in this examination.

Grade Requirements. The standards for grades are the same for all graduate programs. See "Graduation Requirements" for a detailed explanation.

Foreign Language. The various departments offering these degrees have the option of requiring a foreign language.

REQUIREMENTS FOR GRADUATION

The master's degree is conferred upon:

1. The completion of the approved program of studies of 48 quarter hours with grades that average B (3.0 or higher) 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 or research project has been completed and approved. For further information concerning the paper, consult the Graduate Bulletin.
3. Satisfactory performance in a comprehensive examination.
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. This requirement may be waived if the candidate passed the examination as a requirement for an undergraduate degree at one of the state universities of Illinois. The examination must have been passed within ten years of applying for the graduate degree.
5. Meeting the following incidental requirements:
 - a. The graduation fee of \$15.00 must be paid before April 1 by candidates for graduation at the Spring Commencement or before July 1 by candidates for graduation at the Summer Commencement.

- b. A photograph, size not larger than 1½ by 2½ inches, is required of each candidate for graduation for the files of the Records Office.
- c. The candidate must register with the Teacher Placement Bureau, or revise previous registration.

All requirements are subject to the rules governing residence, transfer of credit, and extension credit.

Application for Graduation. Degrees are conferred at two commencements each year, Spring Commencement at the close of the spring quarter, and Summer Commencement at the close of the summer session.

A student who expects to complete his requirements must apply for graduation prior to April 1 for Spring Commencement, or July 1 for Summer Commencement. An application is filed at the Records Office and the graduation fee paid at the Business Office.

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 underclassmen 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 between 450 and 499 may be taken for credit toward the Master's degree.

ACCOUNTING

(See Business 230, 231, 232, 354, 355, 460, 461, 462, 463, 464)

ANTHROPOLOGY

(Taught in the Social Science Department)

273. INTRODUCTION TO ANTHROPOLOGY. Every quarter. (4 q. hrs.)

A study of the races of the world, pre-literate culture, kinship systems, major institutions and social structure. Students are advised to take this course prior to enrolling in courses in sociology.

360. PEOPLES AND CULTURES OF SOUTH AMERICA. (4 q. hrs.) (Omitted 1964-65).

The pre-Colombian background; contemporary races, culture and social organization of selected Latin American societies. The emergence of Latin America as a distinct culture area in the modern world.

Prerequisite: Anthropology 273.

552. CULTURAL ANTHROPOLOGY. Summer. (4 q. hrs.)

An introduction to the scientific study of man and his culture. By the use of the comparative method an analysis will be under-

taken of the kinship, religious, legal, political, economic, technological, literary, and artistic manifestations of primitive and complex societies.

Open only to graduate students. A Group III course in the program for the degree M.S. in Ed.

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. The Department of Art reserves the right to retain for exhibition purposes any student work produced in art classes for a period of one academic year after the year in which the work was produced.

100. DRAWING I. Every quarter. (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. Every quarter. (4 q. hrs.)

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

111. DESIGN II. Every quarter. (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 and Winter. (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.

For art majors and minors only.

ART

205. PAINTING I. Every quarter. (4 q. hrs.)

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

Prerequisite: Art 100 or Art 101.

225. 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 or 111 or 140, 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.

Every quarter. (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.

245. THEORY AND PRACTICE OF ART IN THE ELEMENTARY SCHOOL.

Fall and Spring. (4 q. hrs.)

A study of theories of child art such as those of Lowenfeld, McFee, Goodenough, and Arnheim. Emphasis on developments in children's expressions and evaluating children's progress in art.

Prerequisite: Art 244.

247. THEORY AND PRACTICE OF ART IN THE JUNIOR HIGH SCHOOL.

(Omitted 1964-65). (4 q. hrs.)

A thorough study of the basic needs of the young adolescent, both psychological and physical, as they relate to the art program in the junior high school. Such topics as visual-haptic tendencies, evaluation of student growth, and the development of sensitivity to aesthetic qualities form the bases for independent study.

Prerequisite: Art 244.

260. HISTORY OF ART 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, pot-

tery, and other crafts of Egypt, Mesopotamia, Crete, Greece, and Rome.

For art majors and minors only.

261. HISTORY OF ART II. Winter and Spring. (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.

For art majors and minors only.

262. HISTORY OF ART III. (Omitted 1964-65). (4 q. hrs.)

The development of the visual arts since the beginning of the eighteenth century; relation of art to contemporary living.

For art majors and minors only.

270. INTRODUCTION TO JEWELRY AND ENAMELING I.

Every quarter. (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 or 111 or 140, or permission of instructor.

280. INTRODUCTION TO WEAVING AND TEXTILE DESIGN.

Winter and Spring. (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. LETTERING. (Omitted 1964-65). (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.

300, 301, 302. DRAWING III, IV, V. Winter.

(4 q. hrs. for each course).

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, 306, 307. PAINTING II, III, IV. Every quarter.

(4 q. hrs. for each course).

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.

309. SURVEY OF TWO-DIMENSIONAL ART. Fall and Winter. (4 q. hrs.)

Studio experiences in fine, medium, and broad line media to provide the prospective teacher with basic knowledge of aesthetic expression through experiences in two-dimensional media.

Prerequisite: Art 140.

310, 311, 312. SCULPTURE I, II, III. Every quarter. (4 q. hrs. for each course).

Additional work in three-dimensional organization of form; individual concentration toward competent expression in modeling, carving, and constructing. Each ensuing quarter allows the student greater freedom to organize his work to include a further variety of material and an increasing depth of concentration of form.

Prerequisite: Art 111 or Art 225.

ART 319. SURVEY OF THREE-DIMENSIONAL ART. Fall and Winter. (4 q. hrs.)

A study of three-dimensionality in art. Studio experiences include work in ceramics, sculpture, jewelry and crafts. Materials, skills and techniques necessary to create three-dimensional art forms.

Prerequisite: Art 140.

325, 326, 327. CERAMICS II, III, IV. Every quarter. (4 q. hrs. for each course).

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. Spring. (4 q. hrs.)

A general course in crafts in which students may elect problems from these areas: block printing, batik, enamels, jewelry, leather, mosaics, and glass.

Not open to students whose major or minor is in art. May be taken to satisfy the humanities requirement.

340. THE TEACHING OF ART. Fall. (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. Summer. (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. PRINT MAKING I. Fall. (4 q. hrs.)

A survey and laboratory exploration of four methods of print-making: relief, intaglio, planography, and stencil.

357. PRINT MAKING II. Winter. (4 q. hrs.)

An intensive exploration of intaglio and serigraphy as two methods of print making. Major emphasis is placed on the intaglio method.

Prerequisite: Art 356.

358. PRINT MAKING III. Spring. (4 q. hrs.)

Advanced study of the relief and planographic methods of print making.

Prerequisite: Art 356.

360. ART IN HUMAN AFFAIRS. Every quarter. (4 q. hrs.)

Aesthetic problems and their solutions in various fields of art as related to man and his culture. This course is designed for general education.

Not open to students whose major or minor is in art. May be taken to satisfy the humanities requirement.

361. ART IN PAST CULTURE. Fall, Winter, and Spring. (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. This course is designed for general education.

Prerequisite: Art 360. Not open to students whose major or minor is in art. May be taken to satisfy the humanities requirement.

362. ART TODAY. Winter and Spring. (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. This course is designed for general education.

Prerequisite: Art 360. Not open to students whose major or minor is in art. May be taken to satisfy the humanities requirement.

363. CLASSICAL ART. (Omitted 1964-65). (4 q. hrs.)

An examination of Greek and Roman art, including architecture, painting, sculpture and the minor arts. Study of major figures and dominant stylistic tendencies.

Prerequisite: Art 260, 261, 262 sequence or 360, 361, 362 sequence or permission of instructor.

364. MEDIEVAL ART. Fall. (4 q. hrs.)

A comprehensive survey of the arts of the Middle Ages in respect to the Early Christian, Byzantine, Romanesque, and Gothic, emphasizing in particular the transition from pagan art forms to Christian art forms. Architecture, painting, sculpture, and minor arts considered in light of this transition and transformation.

Prerequisite: Art 260, 261, 262 sequence or Art 360, 361, 362 sequence or permission of instructor.

365. ART OF THE ITALIAN RENAISSANCE. Winter. (4 q. hrs.)

A study of the evolution and development of art forms in Italy during the fifteenth and sixteenth centuries. Emphasis on the painting, sculpture and architecture of Florence, Rome, and Venice.

Prerequisite: Art 260, 261, 262 sequence or Art 360, 361, 362 sequence or permission of instructor.

368. TWENTIETH CENTURY PAINTING AND SCULPTURE, 1905-c.1940. Spring. (4 q. hrs.)

Major developments, personalities, and significant achievements in painting and sculpture of the twentieth century with emphasis on Picasso, Matisse, Klee, Brancusi, Calder, and Moore.

Prerequisite: One course in Art 260, 261, 262, 360, 361, 362 and permission of instructor.

- 370, 371, 732. JEWELRY AND SILVERSMITHING II, III, IV.

Fall and Spring. (4 q. hrs. for each course).

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. Spring. (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 1964-65). (4 q. hrs.)

Advanced problems in weaving design and production.

Prerequisite: Art 380.

382. TEXTILE DESIGN. (Omitted 1964-65). (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. COMMERCIAL DESIGN I. (Omitted 1964-65). (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.

391. COMMERCIAL DESIGN II. (Omitted 1964-65). (4 q. hrs.)

Study of modern developments in the field of display advertising; concentration on three-dimensional design.

405, 406, 407. PAINTING V, VI, VII. Every quarter.
(4 q. hrs. for each course).

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, 306, 307 and permission of the instructor.

425, 426, 427. ADVANCED CERAMICS V, VI, VII. Every quarter.
(4 q. hrs. for each course).

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, 326, 327 and permission of the instructor.

446. HISTORY OF ART EDUCATION. Summer. (4 q. hrs.)

Historical development of philosophies of 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.

461. PSYCHOLOGY OF ART. (Omitted 1964-65). (4 q. hrs.)

Study of the psychological basis for art expression; analysis of art ability in terms of aptitudes, skills, and creative capacities.

Prerequisite: Three courses in art or permission of instructor. Open to juniors, seniors, and graduates.

462. ART IN AMERICA. (Omitted 1964-65). (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 historical and sociological events in the growth of America.

Prerequisite: Art 260, 261, and 262 or Art 360, 361 and 362. Open to juniors, seniors, and graduates.

463. CONTEMPORARY ARCHITECTURE. (Omitted 1964-65).
(4 q. hrs.)

Architecture of the twentieth century; its roots, in the past, its forms, its materials, its masters, and its social impact.

Prerequisite: Art 260, 261, and 262 or Art 360, 361 and 362. Open to juniors, seniors, and graduates.

465. THE VISUAL ARTS IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL. Spring. (4 q. hrs.)

The course provides the prospective teacher with a background for understanding the nature of the visual arts as well as specific knowledge of our cultural heritage in art. Consideration is given to the relationship of the child to his art heritage and to approaches for fostering art appreciation.

Prerequisite: Art 244 or 340.

467, 468, 469. SEMINAR IN ART HISTORY AND CRITICISM I, II, III.
(Omitted 1964-65). (4 q. hrs. for each course).

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. Open to juniors, seniors, and graduates.

510. MATERIALS FOR DESIGNING I. Fall, Winter and Spring.
(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 of the Graduate School.

520. ANALYSIS OF PAINTING TECHNIQUES.

Fall and Summer. (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 of the Graduate School.

550. CONTEMPORARY TRENDS IN VISUAL ARTS.

Spring and Summer. (4 q. hrs.)

The development of the visual arts today—materials, forms, purpose, treatment; basis for evaluation and role in contemporary living.

Open only to graduates. May be taken as part of Group III requirements for the degree M.S. in Ed.

560. MATERIALS FOR DESIGNING II.

Spring and Summer. (4 q. hrs.)

Analysis and manipulation of design materials—fibers, metal, clay, wood—for understanding of expression and study for teaching; advanced work in spatial concepts, textiles, and organization of form and color.

Open only to graduates.

570. PAINTING PROBLEMS. Winter and 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. Summer. (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 Division of Life Sciences)

116. LIFE SCIENCE. Every quarter. (4 q. hrs.)

A survey of the principal structures and processes including genetics and embryology of plant and animals. This course is restricted to students in the elementary education curriculum.

No prerequisites.

117. LIFE SCIENCE. Winter and Spring. (4 q. hrs.)

A survey of the identification, natural history, distribution and economic importance of the principal animal and plant groups. This course is restricted to students in the elementary education curriculum.

Prerequisite: Biology 116 or equivalent.

126, 127, 128. GENERAL BIOLOGICAL SCIENCE. Fall, Winter, Spring, and Summer. (4 q. hrs. for each course).

A survey course covering the fundamental structures and processes of plants and animals; genetics, embryology, local flora and fauna are included.

BOTANY

Botany 120, 121, 222 is a year's sequence designed to meet the laboratory science general requirement and it is basic also 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 processes concerned in the life and growth of plants; the manufacture of foods by green plants that are essential for both plants and animals; the structure of leaves, stems, and roots in sufficient detail to understand how the processes result in growth; and the effect of environment upon these processes.

121. GENERAL BOTANY. Fall, Winter and Spring. (4 q. hrs.)

A study of the reproductive phase of plant life including 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 opportunity of surveying the natural groups of the plant kingdom with their development and environmental relationships and their economic significance.

Prerequisite: Botany 120.

218. VEGETATION OF ILLINOIS. Spring and Summer. (4 q. hrs.)

A course emphasizing the use of local manuals and keys in the identification of the common plants of Illinois including algae, fungi, liverworts, mosses, ferns, flowering herbaceous plants, trees and shrubs. Ecological relationships of these plants as they occur in the vegetation locally as well as all over North America will be discussed and demonstrated by use of Kodachrome slides and several local field trips. The characteristics of the important plant families and their economic importance, the prin-

ciples of taxonomy and the preparation of a herbarium also are included. The course is designed for elementary and junior high school teachers.

Prerequisites: Life Science 116 and 117 or equivalent. Not open to students who have had Botany 120 and 121.

222 (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, and 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 designed for those who will teach biological science in the secondary 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, and 222. A year of chemistry is recommended.

230. THE MORPHOLOGY OF GREEN PLANTS. Fall and Spring.
(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.

Prerequisite: Botany 120, 121, and 222.

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, 121, and 222.

232. ECONOMIC BOTANY. Fall and 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 121 or 218.

234. FOOD AND SANITARY MICROBIOLOGY. Fall and Winter.
(4 q. hrs.)

A course in microbiology for the Home Economics, Health Education, Elementary and Junior High curricula with emphasis on the relationships of bacteria, yeasts, molds and other related micro-organisms to food preservation, and spoilage. The techniques of culturing and studying micro-organisms 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 3 quarters of laboratory sciences. Not to count toward a botany major or minor.

335 (235). BACTERIOLOGY. Every quarter. (4 q. hrs.)

A study of the occurrence, distribution, isolation and culture of bacteria and closely related micro-organisms with emphasis on morphology, physiology, variations and the conditions which influence metabolism, growth and death. A set of permanently stained slides of representative morphological types of bacteria, molds, and yeasts are made by individual students as a course requirement. Field trips are taken to local water purification and sewage disposal plants.

Prerequisite: Botany 120 and Junior standing. Botany 121, 230, 231 and a year of chemistry are recommended.

340. METHODS OF TEACHING BIOLOGICAL SCIENCE IN THE HIGH SCHOOL. Winter and Summer. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

345. PROBLEMS IN BOTANY. Any quarter. (4 q. hrs.)

A course for individual students who wish to do advanced work in some special field of botany. The student may choose the

field in which he wishes to work but first must submit an outline of his plan of work to the department head for approval and assignment to an instructor.

Prerequisite: Botany major or minor with junior standing.

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). Field trips are made to show application of genetic principles.

Prerequisite: Five quarters of biological science.

453 (343). PLANT MICROTECHNIQUE. Winter. (4 q. hrs.)

A course designed to give the student the opportunity of learning the techniques of the preparation of microscopic slides of plant material for use in teaching. It is desirable that students have had a year of chemistry.

Prerequisite: Botany 120, 121, 222, and 230 or its equivalent.

Open to juniors, seniors, and graduates.

454 (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.

Open to juniors, seniors, and graduates.

456 (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, 222, and 230. Open to juniors, seniors, and graduates.

459 (349). SYSTEMATIC BOTANY. Fall. (4 q. hrs.)

A detailed study of the Compositae, grasses and grass-like plants of Illinois and current trends in plant classification and

plant population analysis. Field trips are made for the observation and collection of plants from various habitats.

Prerequisite: Botany 120, 121, and 222. Open to juniors, seniors, and graduates.

461 (351). PLANT ECOLOGY. Spring quarter. (4 q. hrs.)

A study of the major plant communities of North America with special emphasis on the composition and development of communities in the Midwest. Factors affecting these communities are stressed. Field trips are made to illustrate phases of the work.

Prerequisite: Botany 120, 121, 222 and two advanced courses in Botany or related fields. Botany 454 and 459 are recommended. Open to juniors, seniors and graduates.

545, 546, 547, 548. ADVANCED BOTANY. Any quarter.

(4 q. hrs. for each course)

A course designed to meet the need 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. Primarily for graduates. Open to seniors with permission of the department head and Dean of the Graduate School.

550. THE SCIENCE OF PLANT LIFE. Summer 1964. (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 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 degree M.S. in Ed. Not open to students who have had undergraduate courses in Botany.

551. SYSTEMATIC BOTANY AND LOCAL FLORA. Summer 1965.

(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 degree M.S. in Ed. May not be taken by students who have undergraduate credit in botany.

552. MICROBIOLOGY FOR EVERYDAY LIVING. Summer 1966.
(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 school-rooms, school activities, and community problems.

Not open to students who have credit for Botany 234 or 335. Open only to graduates. May be offered as a part of Group III requirements for the degree M.S. in Ed.

595. THESIS. (4 q. hrs.)

BUSINESS

110. TYPEWRITING. Fall and Winter. (4 q. hrs.)

Beginning instruction in typewriting; drills for the development of correct stroking and machine manipulation, straight copy typing, short manuscripts, vertical and horizontal placement, simple tabulation, personal communications. Speed requirement: minimum of twenty words a minute for three minutes with not more than nine errors.

Not open to students who have had the equivalent of one semester or more of typewriting instruction in high school.

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. Includes additional work on manuscripts and tabulation. Speed requirement: minimum of thirty words per minute for five minutes with not more than ten errors.

Prerequisite: Business 110 or the equivalent. Not open to students who have had the equivalent of two semesters or more of typewriting instruction in high school.

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 words per minute for five minutes with not more than five errors.

Prerequisite: Business 111 or the equivalent. Not open to students who have had the equivalent of three semesters or more of typewriting instruction in high school.

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.

Not open to students who have had the equivalent of one semester or more of shorthand instruction in high school.

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. Not open to students who have had the equivalent of two semesters or more of shorthand instruction in high school.

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. Not open to students who have had the equivalent of three semesters or more of shorthand instruction in high school.

140. BUSINESS MATHEMATICS. Fall and Spring. (4 q. hrs.)

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 interests, bank discount, installment buying, taxes, fire insurance, stocks and bonds, and depreciation.

141. BUSINESS CORRESPONDENCE. Every quarter. (4 q. hrs.)

The construction of effective letters to achieve business purposes with human relationships in mind. 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: Business 110 or equivalent.

142. INTRODUCTION TO BUSINESS. Every quarter. (4 q. hrs.)

The American business scene; business and society; the nature of business: production, distribution, finance; the business manager as a directing force, his obligations and objectives; career opportunities in phases of business activity.

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 highly 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. OFFICE PRACTICE. Every quarter. (4 q. hrs.)

A practical course in the function, use and operation of filing systems, duplicating devices, voice-writing equipment, adding and calculating machines, and copying 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 student'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 made of the duties of the secretary in business and the professions, relations of the private secretary to the employer and associates, 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 percent accuracy.

Prerequisite: Business 224 and 210 or the equivalents.

230. ACCOUNTING. Fall and Winter. (4 q. hrs.)

This course does not presume previous training in bookkeeping. The balance sheet and profit and loss statements lead to the introduction of accounts. The course aims to give thorough drill in the principles of accounting as applied to single proprietorship.

Not open to freshmen.

231. ACCOUNTING, Continued. Winter and Spring. (4 q. hrs.)

This course is a continuation of the work of Business 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.

232. ACCOUNTING, Continued. Spring. (4 q. hrs.)

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 with emphasis upon current marketing channels; marketing functions and institutions; 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. Every quarter. (4 q. hrs.)

A survey with 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. PRINCIPLES OF RETAILING. Fall 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 fundamental principles and problems as they relate to a distributive education program.

250. PRINCIPLES OF 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.

330. DATA PROCESSING FOR BUSINESS. Every quarter. (4 q. hrs.)

The nature and function of modern, high speed information handling (data processing) equipment. Includes punched card units and high speed electronic computers with stored program capabilities. The social and economic implications of integrated and automatic data processing are explored. Problems on the computers.

346 (446). BUSINESS LAW. Fall and Winter. (4 q. hrs.)

Rules governing law and its administration; personal property, contracts; agency, employer and employee; negotiable instruments; bailments; business crimes and torts.

347 (447). BUSINESS LAW, Continued. Winter and Spring. (4 q. hrs.)

Insurance; carriers; sale of goods; partnership; corporation; deeds of conveyance; mortgages; landlord and tenants; surety and guaranty; bankruptcy; trusts and estates.

Prerequisite: Business 346.

354 (454). INTERMEDIATE ACCOUNTING. Fall. (4 q. hrs.)

Review of fundamental processes on a higher level with additions not covered in beginning accounting; cash and temporary investments, receivables, inventories, investments, plant and equipment, intangibles and deferred charges.

Prerequisite: Business 230, 231, 232.

355 (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.

356. (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, 354, 355.

383. BUSINESS REPORT WRITING. Fall and Winter. (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.

430. DATA PROCESSING LABORATORY. Every quarter. (4 q. hrs.)

Experiences in the processing of information by the use of punched card equipment and computer. Includes the use of the card punch, sorter, reproducer, accounting machine, printer, and the electronic computer in the University Computing Center under the direction and supervision of the Supervisor.

Prerequisite: Business 330 and consent of the Chairman of the Department of Management.

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 Chairman of the Business Education Department.

451. PRINCIPLES OF MANAGEMENT. Fall and Winter. (4 q. hrs.)

Fundamentals of 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.

Open to juniors, seniors, and graduates.

452. PERSONNEL MANAGEMENT. Winter and Spring. (4 q. hrs.)

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.

Open to juniors, seniors, and graduates.

453. OFFICE MANAGEMENT. Fall and Spring. (4 q. hrs.)

Duties and responsibilities of the office manager. 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.

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 346 and 347 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, 354, 355. Open to juniors, seniors and graduates.

466. ADVANCED INCOME TAX PROBLEMS AND RESEARCH. Spring. (4 q. hrs.)

The nature of corporate income, income tax problems and other tax problems related thereto. A study of the internal revenue code as it pertains to corporate taxes. Advanced tax problems, corporate tax case research and report preparation.

Prerequisite: Business 230, 231, 232 and 461. Open to juniors, seniors, and graduates.

470. METHODS OF TEACHING BOOKKEEPING AND ACCOUNTING. Fall and Spring. (4 q. hrs.)

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. 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 school. 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. 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. METHODS OF TEACHING TYPEWRITING AND OFFICE PRACTICE.
Fall and Winter. (4 q. hrs.)

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. PRINCIPLES OF 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 and Winter. (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 and Spring. (4 q. hrs.)

The corporation in a possible life cycle of organization, operation, and reorganization or failure; the various forms of corporate securities; financing the corporation management of income.

Prerequisite: Business 230, 231, 232 and Economics 254, 255, 256, or the equivalent. Open to juniors, seniors, and graduates.

486. MARKETING RESEARCH. Fall and Spring. (4 q. hrs.)

A basic course in marketing research. Topics covered are: nature and scope of marketing research; scientific method and research design; specific marketing research procedures; research

report, follow-up, and evaluation of research process. Some attention will be given to selected local area problems.

Prerequisite: Business 247. Open to juniors, seniors, and graduates.

487. MARKET MANAGEMENT PROBLEMS. Winter (4 q. hrs.)

A study of marketing problems encountered by businesses who find it necessary to adapt marketing organization and policy to changing economic conditions. Emphasis is placed on the use of the case method in problem analysis.

Prerequisite: Business 247. Open to juniors, seniors, and graduates.

490. INTERNSHIP IN BUSINESS. Arr. (4 q. hrs.)

Employment experience appropriate to the student's major, for a period of one quarter, in a firm approved by the chairman of the student's major department. Experience in a representative sample of the on-going responsibilities of the firm in a manner agreed upon by the firm and the department chairman involved.

Prerequisite: Permission of the Department Chairman and acceptance of the student by a business firm on the basis of the student's application.

498. READINGS IN BUSINESS. Arr. (4 q. hrs.)

Individual study programs. The student will be assigned material from literature of his major field selected in cooperation with the department chairman. A written formal report based upon these readings must be submitted.

Prerequisite: Senior standing with strong scholarship as evidenced by cumulative grade point average; permission of the chairman of the department of the student's major. Open to juniors, seniors, and graduates.

543. MEASUREMENT AND EVALUATION IN BUSINESS EDUCATION.
Summer. (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 of the Graduate School.

544. FOUNDATIONS IN BUSINESS EDUCATION. Summer. (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 of the Graduate School.

545. PROBLEMS IN BUSINESS EDUCATION. Summer. (4 q. hrs.)

Analysis of current business education problems such as supervision, administration, curriculum, equipment, standards, placement and follow-up and a study of the viewpoints of national business education leaders. Special attention is given problems growing out of the particular needs and interests of the students.

Primarily for graduates. May be taken by seniors with permission of the instructor and the Dean of the Graduate School.

550. THE CORPORATION IN SOCIETY. Summer. (4 q. hrs.)

A course for non-business majors to give an understanding of the corporate form of organization; the genesis of the corporate idea and the adaptation of this idea to the requirements of modern society; implications for the individual and society.

Open only to graduates. A Group III course in the program for the degree M.S. in Ed.

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 with the necessary background should enroll in Chemistry 150, 151, 152 in place of Chemistry 120, 121, 122.

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, 342, 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, Winter and Spring; 121, Winter and Spring;
122, Fall 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 in-

troduced 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 and Winter. (4 q. hrs. for each course)

The principles of chemistry are studied with emphasis on bonding, stoichiometry, states of matter, kinetics and equilibrium.

Prerequisite: One unit of high school chemistry which included laboratory work and in which the grade B or A was earned, plus 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 with emphasis on ionic equilibrium and qualitative analysis.

Prerequisite: Chemistry 151.

Credit is not granted to students who have received credit in Chemistry 122.

153, 154, 155. ELEMENTARY AND ORGANIC CHEMISTRY FOR MAJORS IN HOME ECONOMICS. (153, 154 omitted 1964-65, 155, Spring). (4 q. hrs. for each course)

The principles of chemistry and some of the common elements, including carbon, are studied. Chemistry 155 introduces 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 AND IONIC EQUILIBRIUM. (Omitted 1964-65). (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 equilibrium principles involved rather than the techniques.

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. (Omitted 1964-65). (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 student is to purchase the paper and film he uses. 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. Every 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. Should be completed prior to student teaching.

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. Spring. (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 quarters 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 1964-65). (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, etc.

Prerequisite: Chemistry 235 and 343. Open to juniors, seniors, and graduates.

480. ORGANIC MECHANISMS AND PREPARATIONS.
(Omitted 1964-65). (4 q. hrs.)

A study of the mechanisms of reactions in organic chemistry 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; electro-chemistry, 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. (Omitted 1964-65). (4 q. hrs.)

Radioactivity and the radioactive properties of isotopes are studied in relationship to their chemical properties and uses.

Prerequisite: Five terms of chemistry including 234 and/or 361, or permission of the department head. Open to juniors, seniors, and graduates.

500. SEMINAR. (Omitted 1964-65). (2 q. hrs.)

Reports and discussion of topics selected from recent developments in chemistry.

Prerequisite: Chemistry 234 and 344, and permission of the head of the department. Primarily for graduate students but open to seniors with permission of instructor and Dean of the Graduate School.

501. HISTORY OF CHEMISTRY. (Omitted 1964-65). (2 q. hrs.)

The sources of chemical information including abstracts, journals, texts and reference works are consulted in the study of the historical development of chemistry.

Prerequisite: Primarily for graduate students but open to seniors with permission of instructor and Dean of the Graduate School.

536. BIOLOGICAL AND FOOD CHEMISTRY. Spring. (4 q. hrs.)

A course designed to study the chemistry of biological materials and processes, including the chemistry of foods and nutrition.

Prerequisite: Chemistry 343 or permission of the head of the department. Open only to graduates.

595. THESIS. (4 q. hrs.)

ECONOMICS

(Taught in the Social Science Department)

254. PRINCIPLES OF ECONOMICS. Every quarter. (4 q. hrs.)

The nature of economics, the American economic system, business organization, personal finance, labor-management relations, government finance, national income analysis.

Not open to freshmen.

255. PRINCIPLES OF ECONOMICS (continued).

Every quarter. (4 q. hrs.)

Business cycles, money and prices, banking and monetary policy, fiscal policy, supply and demand analysis.

Prerequisite: Economics 254.

256. PRINCIPLES OF ECONOMICS (continued).

Every quarter. (4 q. hrs.)

Theory of production and factoral distribution, international economics, problems of economic growth and price stability.

Prerequisite: Economics 255.

320. INTERNATIONAL ECONOMICS. Fall. (4 q. hrs.)

A study of the economic interrelationships among nations. This course sets forth the principles of foreign trade and lending, the nature of international payments, tariffs and quotas, and the commercial policies currently being followed by the major countries participating in the world economy.

Prerequisite: Economics 254, 255, 256 or consent of the instructor.

356 (456). GOVERNMENT AND BUSINESS. Fall. (4 q. hrs.)

The market structures in which business operates; public policies for regulation and control of those markets.

Junior standing required.

357 (457). LABOR ECONOMICS. Fall and Spring. (4 q. hrs.)

An intensive study of labor as a factor in the economic system; the history of the labor movement; the technique and objectives of labor organization; the fundamental issues in labor-management disputes; labor legislation.

453. COMPARATIVE ECONOMIC SYSTEMS. Winter. (4 q. hrs.)

A comparative study of the origin, organization, operation, and achievements of the systems of capitalism, socialism, communism, and fascism.

Prerequisite: Economics 254, 255, 256. 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; Marx; Veblen; Keynes.

Prerequisite: Economics 254, 255, 256. Open to juniors, seniors, and graduates.

460. INTERMEDIATE ECONOMIC ANALYSIS. Fall. (4 q. hrs.)

A study of commodity and factor price theory.

Prerequisite: Economics 254, 255, 256. Open to juniors, seniors, and graduates.

462. ECONOMIC STABILITY AND GROWTH. Winter. (4 q. hrs.)

An analysis of factors affecting the level of national economic activity, its fluctuation, and rate of increase.

Prerequisite: Economics 254, 255, 256. Open to juniors, seniors, and graduates.

465. ECONOMICS OF UNDERDEVELOPED AREAS. Winter. (4 q. hrs.)

An intensive study of the economic structures of the underdeveloped areas of the world. An analysis of the causes of their continuing low levels of output will be followed by an examination of the policy alternatives open to them for the development of their economies.

Prerequisite: Economics 254, 255, 256 or consent of the instructor. Open to juniors, seniors, and graduates.

480 (458). MONEY AND BANKING. Spring. (4 q. hrs.)

An intensive study of money and banking and their importance in our economy; government monetary and banking policy and its significance to economic well-being.

Prerequisite: Economics 254, 255, 256. Open to juniors, seniors, and graduates.

485 (459). PUBLIC FINANCE. Spring. (4 q. hrs.)

A study of taxation, government spending, public debt and their importance to economic welfare.

Prerequisite: Economics 254, 255, 256. Open to juniors, seniors, and graduates.

550. THE SOVIET ECONOMY. Spring and Summer. (4 q. hrs.)

An intensive inquiry into the nature of the Soviet economy. Emphasis will be given to the current and historical economic factors which have given rise to the phenomenal development of the Soviet economy from one of the most retarded and economically underdeveloped nations to the second leading industrial nation in the world in less than a half century.

Open only to graduates for credit toward the Group III requirements in the Master of Science in Education program.

EDUCATION

120, 121. LABORATORY IN EDUCATION. Every quarter. (1 q. hr.)

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 1964-65). (4 q. hrs.)

Opportunity to work on individual problems with guidance of staff members.

Registration by permission only.

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.

311. DIRECTING LEARNING IN THE JUNIOR HIGH SCHOOL.

Fall. (4 q. hrs.)

A course designed to cover certain minimum essentials needed by beginning teachers. Students develop criteria for selection, organization, and evaluation of learning activities to aid in the attainment of objectives of the modern junior high school. Attention is given to such topics as classroom management and control, emotional climate of the classroom, the teaching process, guidance and counseling services, homeroom activities, and the teacher's relationship not only to staff members but also to parents and the community.

Prerequisite: Education 232 and admission to teacher education.

312. INSTRUCTIONAL MEDIA IN THE JUNIOR HIGH SCHOOL.

Fall. (4 q. hrs.)

The principles of learning and the results of communication research as they apply to junior high school reading programs and to the use of instructional materials, equipment and services in the classroom. Development of skill and appreciation of the uses, values and sources, curriculum materials, and equipment.

Prerequisite: Education 232 and admission to teacher education.

313. TEACHING SOCIAL STUDIES AND LANGUAGE ARTS IN THE JUNIOR HIGH SCHOOL. Winter. (4 q. hrs.)

Objectives of social studies and language arts programs; the nature, selection, and utilization of materials, methods, and content of junior high school social studies and language arts.

Prerequisite: Education 311, and admission to teacher education.

314. TEACHING MATHEMATICS AND SCIENCE IN THE JUNIOR HIGH SCHOOL. Spring. (4 q. hrs.)

An examination of the aims and objectives of the teaching of mathematics and science in the junior high school; the nature and scope of materials; the methods employed in teaching mathematics and science with emphasis upon those areas in which a correlation of the two areas is possible; collection and preparation of materials, the improvisation of equipment, and the setting-up of experiments used in the teaching of junior high science courses.

Prerequisite: Education 232 and admission to teacher education.

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 guidance program, audio-visual materials. Consideration of the non-instructional duties of the teacher in school and community.

Prerequisite to student teaching. Prerequisite: Education 232 and admission to teacher education.

327. ELEMENTARY CURRICULUM: TEACHING SOCIAL STUDIES AND LANGUAGE ARTS; USE OF INSTRUCTIONAL MATERIALS IN THE ELEMENTARY SCHOOL. Every quarter. (4 q. hrs.)

This course is designed to give the prospective elementary teacher an understanding of the techniques and materials used for teaching social studies in all elementary grades. The language arts program in the areas of listening, oral expression, and written expression, including instruction in handwriting, is emphasized. General principles involved in the selection and proper utilization of all types of instructional materials are presented from the elementary teacher's point of view.

Prerequisite: Education 232 and 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: Education 232 and admission to teacher education.

329. SCIENCE IN THE ELEMENTARY SCHOOL.

Every quarter. (4 q. hrs.)

Selection and development of units, demonstrations, and laboratory work.

Prerequisite: Life Science 116, 117; Physical Science 100, 101; admission to teacher education.

332. EDUCATIONAL PSYCHOLOGY. Every quarter. (4 q. hrs.)

Individual growth and development with emphasis upon the secondary student, the learning process, including an introduction to learning theories and ways of facilitating the learning process, measurement and evaluation with emphasis upon standardized testing.

Prerequisite: Psychology 231 and admission to teacher education.

333. THE INSTRUCTIONAL TASK IN THE SECONDARY SCHOOL.

Every quarter. (4 q. hrs.)

Secondary school teaching as a profession; the secondary curriculum, guidance in the secondary school; selection and use of instructional materials; the development of a secondary reading program.

Prerequisite: Education 332 and admission to teacher education.

334. KINDERGARTEN EDUCATION. Winter and Spring. (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 admission to teacher education.

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 232 or 332 and admission to teacher education.

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 1965. (4 q. hrs.)

Laboratory experiences adapted to the needs of experienced elementary school 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 Director of the School of Elementary and Junior High School Teaching.

445. PHILOSOPHY AND HISTORY OF EDUCATION.

Every quarter. (4 q. hrs.)

The historical development of the several main philosophical origins of educational practices and principles.

Prerequisite: Admission to teacher education and junior or senior standing. Not open to students who have credit in Education 343 or 440.

458. VOCATIONAL EDUCATION. (Omitted 1964-65). (4 q. hrs.)

A course in the history, organization and administration of vocational education. Federal and state laws affecting vocational schools are considered.

Open to juniors, seniors, and graduates.

459. EDUCATIONAL PSYCHOLOGY. Fall. (4 q. hrs.)

Theories of learning; transfer and functional learning; creative thinking and problem solving; "teaching machines" and other self-instructional devices.

Prerequisite: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

460. PROBLEMS IN SECONDARY EDUCATION. (Omitted 1964-65). (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

464. HISTORY OF EDUCATION IN THE UNITED STATES. (Omitted 1964-65). (4 q. hrs.)

The development of learning in the United States is viewed in the perspective of national growth. Attention is paid to the social, cultural, and professional setting of education.

Prerequisite: American history. 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.

466. MODERN TRENDS IN EDUCATION. (Omitted 1964-65). (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: Twelve quarter hours in education and psychology; admission to teacher education.

469. PROBLEMS IN THE TEACHING OF READING. Fall; Summer 1965. (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

471. TEACHING OF SOCIAL LIVING IN THE ELEMENTARY SCHOOL. Winter. (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 social problems.

Prerequisite: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

477. THE JUNIOR HIGH SCHOOL. (Omitted 1964-65). (4 q. hrs.)

A course concerned with certain aspects of junior high school education—historical development, basic philosophy, practices.

Prerequisite: Twelve quarter hours in education and psychology, including Education 232 or 332 and Education 324 or 333. Open to juniors, seniors, and graduates.

480. SCHOOL ORGANIZATION AND ADMINISTRATION.

Fall; Summer 1965. (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

481. WORK OF THE PRINCIPAL IN THE MODERN SCHOOL.

Spring; Summer 1965. (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: Twelve quarter hours in education and psychology, and Education 480. Open to juniors, seniors, and graduates.

485. SCHOOL LAW. Winter; Summer, 1965. (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

487. INTRODUCTION TO AUDIO-VISUAL EDUCATION.

Fall, Spring; Summer 1965. (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

488. PREPARATION AND USE OF INSTRUCTIONAL MATERIALS.

Winter; Summer 1965. (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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

489. SPECIAL PROBLEMS IN AUDIO-VISUAL EDUCATION.

Winter. (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; Summer 1965. (4 q. hrs.)

An introductory course; principles and purposes underlying guidance activities; 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: Twelve quarter hours in education and psychology. Open to juniors, seniors, and graduates.

544. EDUCATIONAL STATISTICS. Summer 1965. (4 q. hrs.)

Fundamentals of statistics and their application.

Prerequisite: Twelve quarter hours in education and psychology. Primarily for graduates; open to seniors with permission of instructor and Dean of the Graduate School.

550. PRINCIPLES OF CURRICULUM DEVELOPMENT.

Every quarter. (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 degree M.S. in Ed.

551. SOCIAL FOUNDATIONS OF EDUCATION.

Fall; Summer 1965. (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 degree M.S. in Ed.

552. UNDERSTANDING THE INDIVIDUAL. Every quarter.

(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 degree M.S. in Ed.

553. PHILOSOPHY OF EDUCATION. Winter; Summer 1965.

(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 degree M.S. in Ed.

554. HISTORY OF EDUCATIONAL THOUGHT.

Spring; Summer 1965. (4 q. hrs.)

Educational ideas and events of the past are related to the social and political framework of their days and to the contemporary 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 degree M.S. in Ed.

560. INTRODUCTION TO GRADUATE STUDY.

Fall; Summer 1965. (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.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

570. PSYCHO-SOCIAL DEVELOPMENT IN CHILDHOOD.

(Omitted 1964-65). (4 q. hrs.)

A study of the psychological and social development of the child up to the period of adolescence. The course includes a dis-

cussion of psychological and cultural forces which shape the behavior patterns of the growing child.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

571. PSYCHO-SOCIAL DEVELOPMENT OF THE ADOLESCENT AND YOUNG ADULT. Fall. (4 q. hrs.)

A study of the psychological and social development of the adolescent and young adult. The course includes a discussion of psychological and cultural forces which shape the behavior patterns of the maturing organism.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

572. MEASUREMENT APPLIED TO GUIDANCE. Fall and Winter.

(4 q. hrs.)

A study of the selection, administration, scoring and interpretation of standardized tests and other measuring techniques suitable for use in guidance programs. Emphasizes the predictive values of various testing instruments.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

573. PLAY THERAPY. (Omitted 1964-65). (4 q. hrs.)

The importance of play in education; discussion of theories and values of play using play as therapeutic treatment.

Prerequisite: Education 574 and 593. Open only to graduates.

574. PERSONALITY DYNAMICS. Fall. (4 q. hrs.)

A study of the nature of personality and of various theories of personality. Attention will be given to techniques of personality evaluation. Opportunity will be provided for the student to analyze cases of normal and abnormal personality integration.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

576. STUDENT PERSONNEL WORK IN HIGHER EDUCATION.

(Omitted 1964-65). (4 q. hrs.)

A study of the backgrounds of personnel functions in higher education with emphasis on the nature and objectives of college personnel work. Includes specific reference to such problems as admissions, discipline, student activities, housing, scholarship programs.

Prerequisite: Education 590. Open only to graduates.

577. RESIDENCE HALL PERSONNEL WORK. (Omitted 1964-65). (4 q. hrs.)

A study of the functions of persons charged with managing and supervising university residence halls. Emphasis is placed upon administrative, business, counseling, and teaching duties of the residence hall personnel worker.

Prerequisite: Education 490. Open only to graduates.

578. THEORIES OF APTITUDES AND ABILITIES. (Omitted 1964-65). (4 q. hrs.)

A study of the nature of human abilities. Examination of individual differences and traits. Theories of vocational behavior.

Prerequisite: Education 592 or permission of department. Open only to graduates.

579. INDEPENDENT STUDY IN GUIDANCE. (On demand). (4 q. hrs.)

Intended to permit a student to pursue more intensively various aspects of the area of his special interest.

Prerequisite: Education 490. Permission of the department. Open only to graduates.

580. PROBLEMS IN SCHOOL ADMINISTRATION.

Winter; Summer 1965. (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; Summer 1965. (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.

585. SCHOOL PLANT PLANNING. Winter. (4 q. hrs.)

A course covering concepts and procedures for relating proposed school plants to the instructional program and community resources. It deals with population survey and projection techniques, personnel roles, master planning, plant site selection,

financing, educational specifications, architect selection, legal requirements and administration of building programs.

Prerequisite: Education 480 or equivalent. Open only to graduates.

586. SCHOOL FINANCE. Spring. (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.

Prerequisite: Education 480 or equivalent. Open only to graduates.

590. CURRENT PRACTICES AND PROBLEMS IN COUNSELING. Winter; Summer 1965. (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. Spring; Summer 1965. (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; Summer 1964. (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.

Prerequisite: Education 490. Open only to graduates.

593. COUNSELING PRACTICUM. Spring; Summer 1964. (4 q. hrs.)

Supervised practice in counseling individual students. Practice provided at the level of the graduate's primary interest. (Elementary, Secondary, College).

Prerequisite: Education 590, 592. Open only to graduates.

594. PRINCIPLES AND TECHNIQUES OF GROUP GUIDANCE.

Spring. (4 q. hrs.)

A study of principles and their application in the area of group guidance. Techniques included are group discussion, socio-metrics, and role-playing. Use of materials will be considered.

Prerequisite: Education 590. Psychology 455 or Education 574. Open only to graduates.

595. THESIS. (4 q. hrs.)

596. THE JUNIOR COLLEGE MOVEMENT.

Fall; Summer 1964. (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.

Prerequisite: Sixteen hours of education and psychology. Open only to graduates.

597. SEMINAR IN GUIDANCE. Summer 1965. (4 q. hrs.)

Discussion of current problems and trends in guidance. Critical examination and evaluation of current literature in the field.

Prerequisite: Education 590, 592. Open only to graduates.

601, 602. THE FIELD EXPERIENCE IN ADMINISTRATION.

(4 q. hrs. for each course)

The course is considered a two-quarter sequence for persons employed as public school personnel; neither grade nor credit given until both quarters are completed. The field experience is designed to provide a comprehensive experience planned by the student's committee and the supervising administrator. Evaluation and supervision is the responsibility of the adviser. The field experience is not offered during a summer quarter.

Prerequisite: May be taken no earlier than the academic year in which the student is scheduled to complete the proposed program leading to the Certificate of Advanced Study; or the quarter in which the student completes all requirements for the Certificate except the final 12 quarter hours.

690. FIELD STUDY IN GUIDANCE. (Internship). 4-8 q. hrs.)

Supervised experience in conducting guidance programs. To include work with all services normally considered a part of the guidance program. Field experience may be arranged in the school in which the student is employed, or other arrangements acceptable to the department may be made.

Prerequisite: Education 593 and approval of the department. Open only to graduates.

ENGLISH

Note. A student who enters 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 prescribe.

The examination for the year 1964-65 will be held on Monday, January 11, 1965, 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.

123. STORY-TELLING. (Omitted 1964-65). (4 q. hrs.)

Theory and practice in telling stories to children of different ages.

126. GRAMMAR. Fall, 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.

220. COMPOSITION. Fall, Winter and Spring. (4 q. hrs.)

Additional practice in composition, intended to strengthen the student's competence in clear and forceful writing.

Prerequisite: English 120, 121, and sophomore standing.

245. A SURVEY OF ENGLISH LITERATURE I. Fall and Winter. (4 q. hrs.)

English prose and poetry (including drama) from *Beowulf* to Bunyan. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers. Meant to provide both a broad perspective of English writing for the student who will take no further courses in literature and a foundation for advanced study of literature.

246. A SURVEY OF ENGLISH LITERATURE II. Fall, Winter, and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Dryden to DeQuincey. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers. Meant to provide a broad perspective of English writing for the student who will take no further courses in literature, and preparation for advanced study of literature.

247. A SURVEY OF ENGLISH LITERATURE III. Winter and Spring. (4 q. hrs.)

English prose and poetry (including drama) from Macaulay to Dylan Thomas. Adequate attention to the occasional short masterpieces of the minor writers and special study of the major works of greater writers. Meant to provide a broad perspective of English writing for the student who will take no further courses in literature, and preparation for advanced study of literature.

250. AMERICAN LITERATURE I. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American Literature from Colonial times through the Transcendental Movement, stressing trends and major writers. Special emphasis is given to works of Edward Taylor, Nathaniel Hawthorne, Edgar Allan Poe, Ralph Waldo Emerson, and Henry David Thoreau.

251. AMERICAN LITERATURE II. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American literature from the close of the Transcendental Movement to 1900, stressing trends and major writers. Special emphasis is given to works of Herman Melville, Walt Whitman, Emily Dickinson, Mark Twain, and Henry James.

252. AMERICAN LITERATURE III. Fall, Winter, and Spring. (4 q. hrs.)

A survey of American literature from 1900 to the present, stressing trends and major writers. Special emphasis is given to works of E.A. Robinson, Robert Frost, T. S. Eliot, William Faulkner, and Ernest Hemingway.

260. ENGLISH NOVEL To 1850. Fall. (4 q. hrs.)

English 260 treats of fiction of the first half of the nineteenth century with emphasis upon the novels of Austen, Thackeray, Dickens, Trollope, Scott, the Brontes. Standards of good fiction, past and present, are discussed.

261. ENGLISH NOVEL FROM 1850 To 1900. Winter. (4 q. hrs.)

English 261, a continuation of English 260, is concerned with the fiction of the latter half of the nineteenth century as represented by the novels of George Eliot, Hardy, Meredith, Stevenson, Willkie Collins.

262. THE AMERICAN NOVEL To 1900. Spring. (4 q. hrs.)

A study of the best American novels before the twentieth century, with emphasis on the works of Hawthorne, Melville, Twain, and James.

Prerequisites: English 120, 121.

263. THE TWENTIETH CENTURY NOVEL: ENGLISH AND AMERICAN. Spring. (4 q. hrs.)

An analysis of selected novels by major figures in English and American fiction such as Joyce, Dreiser, Fitzgerald, Hemingway, Steinbeck, Lawrence. Emphasis is on types and trends in the modern novel.

Prerequisite: Sophomore standing advisable.

270. MODERN DRAMA. (Omitted 1964-65). (4 q. hrs.)

The purpose of this course is to familiarize the student with what is best in modern drama.

275. LITERATURE OF THE OLD TESTAMENT. Spring. (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.

322. LITERATURE IN THE GRADES. Fall, 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.

325. GREEK DRAMA. (Omitted 1964-65). (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. Fall and 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. Winter and 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.

Winter and 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.

355 (344). ADVANCED RHETORIC. Fall. (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.

356 (350). CREATIVE WRITING. (Omitted 1964-65). (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.

370. TWENTIETH CENTURY BRITISH LITERATURE. Fall. (4 q. hrs.)

Representative writings in twentieth century British literature (exclusive of the novel) with special attention to Conrad, Yeats, Joyce, and Eliot.

380. THEORY AND PRACTICE OF MODERN DRAMA I.

Fall. (4 q. hrs.)

Ibsen and his contemporaries. A course taught cooperatively by the Department of English and the Department of Speech and Drama. The aim of the course is to give the student experience in intellectual analysis and interpretation of significant dramatic works, and also experience in acting and directing. The student will also receive some guidance in dramatic writing, though this is not stressed. Acting is optional.

381. THEORY AND PRACTICE OF MODERN DRAMA II.

Winter. (4 q. hrs.)

Shaw and his contemporaries.

382. THEORY AND PRACTICE OF MODERN DRAMA III.

Spring. (4 q. hrs.)

O'Neill, Miller, Williams, Ionesco, etc.

450. HISTORY OF THE ENGLISH LANGUAGE. Fall and 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 elective in other curricula except by special permission of the head of the English department. Open to juniors, seniors, and graduates.

453. SIXTEENTH AND SEVENTEENTH CENTURY PROSE.

Winter. (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.
(Omitted 1964-65). (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.
Fall. (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.
(Omitted 1964-65). (4 q. hrs.)

A study concerned with prose writers Henry Fielding, Richardson, Goldsmith, Smollett, Sterne, Walpole, Johnson.

Open to juniors, seniors, and graduates.

457. NINETEENTH CENTURY ENGLISH PROSE.
Winter. (4 q. hrs.)

A study of the major nineteenth century English prose writing (exclusive of fiction) of Carlyle, Macaulay, Newman, Lamb, Hazlitt, Mill, Froude, Thackeray, Ruskin, Arnold, Huxley, Coleridge, Wordsworth, Morris, Pater, Stevenson with attention to the types and media of prose as well as to the roots of and developments from this period.

Open to juniors, seniors, and graduates.

459. METHODS OF TEACHING CHILDREN'S LITERATURE.
(Omitted 1964-65). (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.

465. MIDDLE ENGLISH LITERATURE. (Omitted 1964-65). (4 q. hrs.)

A study of the non-Chaucerian literature of the Middle Ages, including a brief initial survey of Old English literature; stress on major types: religious prose and poetry, social commentary, lyric poetry, the romance, drama.

Open to juniors, seniors, and graduates.

470. ENGLISH POETRY. Fall. (4 q. hrs.)

English poetry from 1550 to 1798, exclusive of Milton and the precursors of romanticism.

Open to juniors, seniors, and graduates.

471. POETRY OF THE ROMANTIC PERIOD. Winter. (4 q. hrs.)

A study of the poetry of the Romantic Period—precursors of Romanticism and Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats.

Open to juniors, seniors, and graduates.

472. POETRY OF THE VICTORIAN PERIOD. Spring. (4 q. hrs.)

A study of the poetry of the Victorian Period—Tennyson and Browning, etc.

Open to juniors, seniors, and graduates.

475. MILTON. (Omitted 1964-65). (4 q. hrs.)

A study of the life, prose, and poetry of John Milton and his relationship to the literary trends of his century.

Open to juniors, seniors, and graduates.

480. CHAUCER. Fall. (4 q. hrs.)

A study of Chaucer's Canterbury Tales; of the London dialect out of which modern English grew; and the life of the times.

Open to juniors, seniors, and graduates.

481. CHAUCER. (Omitted 1964-65). (4 q. hrs.)

A study of Troilus and Criseyde and such other works as The House of Fame, The Parliament of Fowls and The Legend of Good Women; a study of the London dialect out of which modern English grew; and ideas of the time such as courtly love, and the question of predestination and free will.

Open to juniors, seniors, and graduates.

490 (457). ELIZABETHAN DRAMA. Fall. (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.

491 (458). DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY. (Omitted 1964-65). (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.

500. LITERARY CRITICISM. (Omitted 1964-65). (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 of the Graduate School.

512. TENNYSON AND BROWNING. Spring. (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 of the Graduate School.

550. COMPARATIVE LITERATURE. (Omitted 1964-65). (4 q. hrs.)

Literature, chiefly of the Western World 1650 to 1900. It has a double aim: first, it proposes to offer for the enjoyment and appreciation of the student some of the best literature of the period; second, it will, through these pieces of literature, call to the student's attention the ideas and movements of the time. It is the aim to give the student in his study the beginnings of the scientific attitude of our day and a clearer understanding of the origins of democracy and the foundations of the humanitarian legislation of the nineteenth and twentieth centuries. Such French authors as Descartes, Moliere, Voltaire, and Rousseau are studied. Among the writers read in the English language are Locke, Pope, Swift, Wordsworth, and Scott, and such Americans as Franklin, Emerson, Hawthorne, and Walt Whitman. Such writers as Lessing, Schiller, Goethe, and Nietzsche represent Germany.

Open only to graduates. May be offered toward the Group III requirements for the degree M.S. in Ed.

551. BIOGRAPHY. (Omitted 1964-65). (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 degree M.S. in Ed.

595. THESIS. (4 q. hrs.)

FOREIGN LANGUAGES

Placement in foreign language courses of students who wish to continue a language begun in high school is indicated by the following table. Permission of the department is necessary for initial enrollment beyond the courses in Column III.

I	II	III
Number of high school units in the language.	Course in (or beyond) which the student may enroll for college credit.	Course in which initial enrollment is recommended if grades in high school courses in the language average B or higher.
1 year	Latin 121 French 131 German 121 or 131 Russian 141 Spanish 131	Latin 122 French 132 German 122 or 132 Russian 142 Spanish 132
2 years	Latin 122 French 132 German 122 or 132 Russian 142 Spanish 132	Latin 220 French 230 German 233 Russian 250 Spanish 230
3 years	Latin 220 French 230 German 233 Russian 250 Spanish 230	Latin 221 French 231 German 234 Russian 251 Spanish 231
4 years	Latin 222 French 232 German 235 Russian 252 Spanish 232	a course numbered above 300

A student who enrolls in a course earlier in sequence than that indicated in Column II will not receive credit toward graduation, but may have the course reported to the State Teacher Certification Board in partial fulfillment of the minimum requirement for certification to teach the language.

A student may apply for proficiency examinations for college credit in courses listed on the appropriate line in Column III or more advanced courses, but not in courses earlier in sequence.

Latin

- 120, 121, 122. ELEMENTARY LATIN. Fall, Winter, Spring.
(4 q. hrs. for each course).

This sequence is offered for students who desire to begin the study of Latin in college. The aim in this course is to teach the student the fundamentals of the language. Special attention is given to the influence of Latin on English.

No credit given for less than a year's work.

220. INTRODUCTORY LATIN READING. Fall. (4 q. hrs.)
Selection from Aulus Gellius, Phaedrus, and Caesar.
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.

- 310 (210). READINGS IN ROMAN HISTORY AND MYTHOLOGY. Fall. (4 q. hrs.)
Selections from Caesar, Eutropius, and Sallust.
Prerequisite: Latin 122 or two years of Latin in high school.

- 311 (211). SELECTED LETTERS. Winter. (4 q. hrs.)
Readings from the correspondence of Cicero and Pliny.
Prerequisite: Latin 210.

- 312 (212). ROMAN BIOGRAPHY. Spring. (4 q. hrs.)
Readings from Cornelius Nepos.
Prerequisite: Latin 311.

330. CICERO'S ESSAYS, SELECTIONS FROM DE AMICITIA AND DE SENECTUTE. (Omitted 1964-65). (4 q. hrs.)

331. HORACE, SELECTIONS FROM THE ODES, SATIRES, AND EPISTLES. (Omitted 1964-65). (4 q. hrs.)

332. LIVY, SELECTIONS FROM BOOKS I, XXI, XXII.
(Omitted 1964-65). (4 q. hrs.)

340. METHODS OF TEACHING LATIN. Winter. (4 q. hrs.)
Prerequisite: Admission to teacher education.

- 433 (343). OVID, SELECTIONS FROM TRISTA, HEROIDES, AMORES, FASTI, METAMORPHOSES. Fall. (4 q. hrs.)
The life and times of Ovid; Roman and Greek mythology.

- 434 (344). LATIN COMPOSITION. Winter. (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.

- 435 (345). MEDIEVAL LATIN. Spring. (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.

450. TACITUS, GERMANIA AND AGRICOLA; SELECTIONS FROM ANNALS AND HISTORIES. (Omitted 1964-65). (4 q. hrs.)
Open to juniors, seniors, and graduates.

451. SELECTIONS FROM CATULLUS AND MARTIAL. (Omitted 1964-65). (4 q. hrs.)
Open to juniors, seniors, and graduates.

452. ROMAN COMEDY. THE MENAECHMI AND CAPTIVES OF PLAUTUS; THE PHORMIO AND ANDRIA OF TERENCE. (Omitted 1964-65). (4 q. hrs.)
Open to juniors, seniors, and graduates.

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.

330. APPLIED LINGUISTICS. Fall. (4 q. hrs.)

Application of principles of linguistic analysis to modern French. Systematic drills are used to build the student's knowledge of the structure of French and to eliminate errors caused by the patterns of the student's native English.

331. FRENCH GRAMMAR AND COMPOSITION. Winter. (4 q. hrs.)

Review and consolidation of principles of grammar; their application in writing, language drills, translations, compositions.

332. ASPECTS OF FRENCH CIVILIZATION. Spring. (4 q. hrs.)

A study of some of the outstanding moments and figures in the history of French culture and civilization.

333. 17TH CENTURY DRAMA. Fall. (4 q. hrs.)

Selected works: Moliere, Racine, Corneille.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

334. 18TH CENTURY DRAMA. Winter. (4 q. hrs.)

Selected works: Lesage, Voltaire, Beaumarchais, Marivaux.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

335. 19TH CENTURY DRAMA. Spring. (4 q. hrs.)

Selected works: Hugo, Musset, Dumas fils, Rostand, Maeterlinck, Claudel.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

340. METHODS OF TEACHING FRENCH. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

450. SURVEY OF FRENCH LITERATURE FROM THE MIDDLE AGES TO THE 18TH CENTURY. (Omitted 1964-65). (4 q. hrs.)

Readings: Chanson de Roland, Villon, Marot, Rabelais, Ronsard, Descartes, Pascal, La Rochefoucauld, Mme de Sevigne, La Fontaine, La Bruyere, Boileau.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

451. SURVEY OF FRENCH LITERATURE OF THE 18TH CENTURY. (Omitted 1964-65). (4 q. hrs.)

Readings: Lesage, Montesquieu, Voltaire, Diderot and the Encyclopedistes, Bernardin de Saint-Pierre, Chenier.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

452. SURVEY OF FRENCH LITERATURE OF THE 19TH CENTURY. (Omitted 1964-65). (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.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

453. FRENCH NOVEL I: BEFORE BALZAC. Fall. (4 q. hrs.)

A study of selected novels of Mme de La Fayette, Le Sage, Prevost, Constant, Dumas, Hugo, George Sand.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

454. FRENCH NOVEL II: BALZAC TO PROUST. Winter. (4 q. hrs.)

A study of selected novels of Balzac, Stendhal, Flaubert and Zola.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

455. FRENCH NOVEL III: PROUST TO THE PRESENT. Spring. (4 q. hrs.)

A study of selected novels of Proust, Alain Fournier, Gide, Mauriac, and Camus.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

595. THESIS. (4 q. hrs.)

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 essen-

tials 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. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

353. MASTERPIECES OF GERMAN LITERATURE. Winter. (4 q. hrs.)

Introduction to German literature, its themes, forms, and ideals.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

354. CONVERSATION AND WRITING. (Omitted 1964-65). (4 q. hrs.)

Training in writing German, diction and pronunciation.

355. TWENTIETH CENTURY GERMAN LITERATURE.

(Omitted 1964-65). (4 q. hrs.)

Introduction to trends of modern civilization as reflected in contemporary German literature: Hofmannsthal, Rilke, Trakl, Hauptmann.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

361. APPLIED LINGUISTICS. Fall. (4 q. hrs.)

Application of the findings of descriptive linguistics to the study and the teaching of German; the results of linguistic analysis and their practical significance both to the student of that language and to the teacher.

362. SCHILLER'S DRAMAS. Spring. (4 q. hrs.)

A study of the development of German classicism as embodied in Schiller's dramas; the theory, structure and dramaturgy of the classical drama in Germany.

363. LYRICS AND BALLADS. (Omitted 1964-65). (4 q. hrs.)

A poetical and metrical survey of German lyrical verse from its beginning to modern times, with critical analyses of representative poems.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

453. GERMAN LITERATURE TO 1700. (Omitted 1964-65). (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.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

454. GERMAN LITERATURE SINCE 1700. (Omitted 1964-65). (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.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

455. ADVANCED CONVERSATION, COMPOSITION AND SYNTAX. (Omitted 1964-65). (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.

Open to juniors, seniors, and graduates.

456. HISTORY OF GERMAN CIVILIZATION. Fall. (4 q. hrs.)

Analysis of selected topics from German culture and civilization.

Open to juniors, seniors, and graduates.

457. MODERN GERMAN DRAMA. Winter. (4 q. hrs.)

A study of the drama of the Nineteenth and Twentieth Centuries and its relation to World Drama, especially Greek.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

458. GOETHE. Spring. (4 q. hrs.)

Introduction to Goethe's life and works.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

595. THESIS. (4 q. hrs.)

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.

360. MODERN RUSSIAN AUTHORS. (Omitted 1964-65). (4 q. hrs.)

Reading of short selections from a wide range of authors such as Pushkin, Tolstoy, Dostoyevsky, Turgenev, Saltykov-Shchedrin, Lermontov, Gogol, Chekhov, Gorky, Sholokhov, and Simonov.

Prerequisite: Second Year Russian.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

361. MASTERPIECES OF RUSSIAN LITERATURE. The Russian Novel in the 19th Century. (Omitted 1964-65). (4 q. hrs.)

Reading of selected chapters from *War and Peace*, *Anna Karenina*, *Brothers Karamazov*, *Crime and Punishment*, *Dead Souls*, and *Fathers and Sons*.

Prerequisite: Second Year Russian.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

362. RUSSIAN READINGS IN THE SCIENCES AND SOCIAL SCIENCES. (Omitted 1964-65). (4 q. hrs.)

Readings in history, politics, current events, business, industry, steel-making, physics, chemistry, geography, and psychology.

Prerequisite: Second Year Russian.

363. CHEKHOV AND OTHER RUSSIAN DRAMATISTS. (Omitted 1964-65). (4 q. hrs.)

The Three Sisters and *The Cherry Orchard* by Chekhov, *The Lower Depths* by Gorky, and one play of the Soviet period will be read in their entirety.

Prerequisite: Second Year Russian.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

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.

321 (453). INTRODUCTION TO SPANISH LITERATURE FROM 12TH TO 15TH CENTURIES. Fall. (4 q. hrs.)

Study of development of medieval Spanish literature. Lectures and discussion in Spanish.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

322 (454). INTRODUCTION TO SPANISH LITERATURE FROM 16TH TO 17TH CENTURIES. Winter. (4 q. hrs.)

Study of development of Renaissance and Golden Age Spanish literature. Lectures and discussion in Spanish.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

323 (455). INTRODUCTION TO SPANISH LITERATURE FROM 18TH TO 20TH CENTURIES. Spring. (4 q. hrs.)

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

330 (462). INTRODUCTION TO SPANISH AMERICAN CIVILIZATION. Fall. (4 q. hrs.)

A study of contemporary civilization in Spanish America against a view of the history of the area from the period of the discovery.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

331. SPANISH COMPOSITION AND CONVERSATION.

Winter. (4 q. hrs.)

Intermediate level course continuing the skills of speaking and writing developed in the second year. Guided conversation, grammar review, oral and written composition. Course conducted in Spanish.

332. INTRODUCTION TO SPANISH AMERICAN LITERATURE.

Spring. (4 q. hrs.)

A study of selected writings and literary history from the Colonial Period to the present.

340. METHODS IN THE TEACHING OF SPANISH. Winter. (4 q. hrs.)

Prerequisite: Admission to teacher education.

410. ADVANCED COMPOSITION AND CONVERSATION.

(Omitted 1964-65). (4 q. hrs.)

A study of fundamental aspects of spoken and written Spanish. Frequent oral and written reports in Spanish required.

411 (310). MODERN SHORT STORIES OF SPAIN.

(Omitted 1964-65). (4 q. hrs.)

Reading of Spanish short stories from latter part of the 19th century to present. Analysis and oral discussions in Spanish.

412 (461). SURVEY OF SPANISH CULTURE AND CIVILIZATION.

(Omitted 1964-65). (4 q. hrs.)

A study of contemporary civilization in Spain against a view of the history of the Peninsula from ancient times. Lectures and discussions in Spanish.

450. POETRY OF SPAIN. Fall. (4 q. hrs.)

Readings and analysis of Spanish poetry from 15th century to present.

Open to juniors, seniors, and graduates.

451 (311). SELECTED MODERN DRAMA OF SPAIN.

Winter. (4 q. hrs.)

Reading of complete modern dramas of Spain from second half of the 19th century to present, with emphasis in current developments in Spanish theater. Discussions in Spanish.

Open to juniors, seniors, and graduates.

452. MODERN NOVELS OF SPAIN. Spring. (4 q. hrs.)

Reading of complete novels of Spain from latter part of the 19th century to present.

Open to juniors, seniors, and graduates.

456 (336). THE SHORT STORY IN SPANISH AMERICA.

A study of the development of the short narrative in Spanish America, and the reading of short stories from representative authors. Analysis and discussions in Spanish.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities

requirement for a bachelor's degree, subject to regulations governing such use of credit.

457 (337). MODERN POETRY OF SPANISH AMERICA.

(Omitted 1964-65). (4 q. hrs.)

A study of the poetry of Spanish America, from the *modernista* movement to the present. Analysis and discussions in Spanish.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

458 (338). MODERN NOVEL OF SPANISH AMERICA.

(Omitted 1964-65). (4 q. hrs.)

A study of selected 19th and 20th century novels. Analysis and discussions in Spanish.

Open to juniors, seniors, and graduates.

May be used as a literature course to satisfy the humanities requirement for a bachelor's degree, subject to regulations governing such use of credit.

595. THESIS. (4 q. hrs.)

Classics

550. GREEK LITERATURE IN ENGLISH TRANSLATION.

Summer 1965. (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 the Group III requirements for the degree M.S. in Ed.

551. LATIN LITERATURE IN ENGLISH TRANSLATION.

(Omitted 1964-65). (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 the Group III requirements for the degree M.S. in Ed.

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 are planned as a sequence in beginning geography. Generally Geography 150 is considered as prerequisite for more advanced courses.

Geography 300, 301, and 302 are required of students in the elementary curriculum under the old plan, 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 and climate, the factors which influence them, and their importance to man; recent developments in knowledge of weather presented.

No prerequisite.

142. PHYSICAL GEOGRAPHY. Spring. (4 q. hrs.)

A study of the earth's physical surface, the areal interrelationships 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. 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 areal 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. Both the regional and topical approach are utilized in studying the earth as the home of man.

GEOGRAPHY**151. REGIONAL GEOGRAPHY OF NORTH AMERICA.**

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.

241. CLIMATES OF THE WORLD. (Omitted 1964-65). (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. Fall. (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 1964-65). (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 EARTH SCIENCE. Winter. (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. Spring. (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. NORTH AMERICA. 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.

Prerequisite: One course in geography. 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.

351. GEOGRAPHY OF THE CARIBBEAN LANDS.

(Omitted 1964-65). (4 q. hrs.)

An analysis of the resources, culture and problems of Mexico, Central America and West Indian Islands. Recent political, economic and population changes in the area are emphasized.

360. ECONOMIC GEOGRAPHY. Fall and 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 1964-65). (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.

(Omitted 1964-65). (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. (Omitted 1964-65). (4 q. hrs.)

Instruction and practice in the fundamentals of map projection, map construction, and reproduction.

381. FIELD TECHNIQUES AND PROBLEMS. Spring. (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 1964-65). (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 1964-65). (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. Spring. (4 q. hrs.)

This course deals with the countries of South America. The geographic basis for stages of development and for economic relations of South America with the rest of the world treated, but especially the United States. Provides knowledge for better understanding of our South American neighbors.

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. (Omitted 1964-65). (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 1964-65). (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 1964-65). (4 q. hrs.)

A regional study of the Soviet Union. Includes a study of the physical as well as the cultural environment in 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 1964-65). (4 q. hrs.)

A regional approach to climate, settlement, agriculture, industry, trade and transportation of central United States. The emphasis is on the geography of Illinois.

Open to juniors, seniors, and graduates.

470. HISTORICAL GEOGRAPHY OF THE UNITED STATES.
(Omitted 1964-65). (4 q. hrs.)

A study of the elements of geography and the role they have played in the various stages in the settlement and subsequent development of the United States.

Open to juniors, seniors, and graduates.

471. POLITICAL GEOGRAPHY. Winter. (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. Omitted 1964-65). (4 q. hrs.)

A study of the history, uses, and construction of maps, cartographic work and use of aerial photographs; individual projects and problems.

Open to juniors, seniors, and graduates.

487. REGIONAL PROBLEMS IN CONSERVATION.
(Omitted 1964-65). (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. (1-4 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 1964-65). (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.

Primarily for graduates; open to seniors with permission of the instructor and the Dean of the Graduate School.

550. GEOGRAPHY IN WORLD AFFAIRS. Spring. (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 of Science in Education Degree program.

551. A GEOGRAPHY OF MAN. (Omitted 1964-65). (4 q. hrs.)

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 recent developments in geography.

Open only to graduates. A Group III course in the Master of Science in Education 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 of Science in Education Degree program.

553. BIO-GEOGRAPHY. (Omitted 1964-65). (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 1964-65). (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.

Every quarter. (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.

HISTORY

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.

Prerequisite: Health Education 331 or concurrent enrollment in this course.

HISTORY

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.

244. ANCIENT HISTORY. Fall and Winter. (4 q. hrs.)

The ancient Middle East; Ancient Greece; Hellenistic Age; Roman Republic; Roman Empire, its rise and decline. Covers the period of time from c. 3000 B.C. to 500 A.D.

245. MEDIEVAL EUROPE. Fall and Spring. (4 q. hrs.)

Germanic invasions; rise of The Papacy; rise of Frankish Empire; Carolingian empire; feudalism; Mohammedanism; beginnings of national states; Crusades; medieval culture—universities, literature, art; 100 Years' War; decline of Church.

246. EUROPEAN HISTORY, c. 1500-1715.

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

A study of the emergence of modern Europe, rise of national states, Renaissance, Reformation, Catholic Reformation, age of discovery and exploration, age of Philip II—1556-88, rise of absolutism in France—1598-1660, decline of monarchy in England—1603-69, Thirty Years' War—1618-1648. Age of Louis XIV.

247. EUROPEAN HISTORY, c. 1715-1870.

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

Rise of Russia and Prussia in the eighteenth century; colonial rivalry of France and England; the Enlightenment; French Revolution and Napoleon.

248. EUROPEAN HISTORY, 1870 TO PRESENT.

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

Triumph of nationalism in Germany and Italy; Second Industrial Revolution; background of World War I; World War I; Fascism, Nazism, World War II; Cold War.

281. LATIN-AMERICAN HISTORY TO 1830. Fall. (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.

Prerequisite: Sophomore standing.

282. LATIN-AMERICAN HISTORY SINCE 1830. Winter. (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.

Prerequisite: Sophomore standing.

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 1815. 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 1815.
(Omitted 1964-65). (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. (Omitted 1964-65). (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. CONSTITUTIONAL HISTORY OF ENGLAND.
(Omitted 1964-65). (4 q. hrs.)

A study of the English constitution to the time of Henry VII. Emphasis is placed on the development of political institutions that are regarded as essential to western democracy, with special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and the changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor. Open to juniors, seniors, and graduates.

454. CONSTITUTIONAL HISTORY OF ENGLAND.
(Omitted 1964-65). (4 q. hrs.)

A study of the English constitution since the time of Henry VII. Emphasis is placed on the development of political institutions that are regarded as essential to western democracy, with special emphasis on the development of the common law, the court system, the conflicts between king and parliament, and the changing character of the British constitution.

Prerequisite: One year of history or consent of the instructor. Open to juniors, seniors, and graduates.

456. INTELLECTUAL HISTORY OF EUROPE: ANCIENT AND MEDIEVAL.
Fall. (4 q. hrs.)

A study of the history of ideas in the Greece and Rome of antiquity and Europe in the Middle Ages, including the channels

of expressions of ideas in philosophy, art, literature, music, etc., the place of ideas in the political, economic, and social setting of each age, and their influence on later ages.

Prerequisite: History 244 and 245. Open to juniors, seniors, and graduates.

457. INTELLECTUAL HISTORY OF EUROPE: MODERN.

Winter. (4 q. hrs.)

The history of ideas since the Renaissance, including the Reformation, rationalism and the rise of science, the Enlightenment, 19th century romanticism, nationalism, conservatism, liberalism, Marxian radicalism, Darwinism, 20th century science, philosophy and political ideologies.

Prerequisite: History 246, 247, and 248. Open to juniors, seniors, and graduates.

458. HELLENIC HISTORY. Winter. (4 q. hrs.)

An advanced course in the history of the ancient Greeks dealing primarily with the character and achievements of this great culture, centering in the Age of Pericles. Other materials presented are designed to show the relationship of this period to the Hellenistic Age that follows, with specific reference to modern times.

Prerequisite: History 244. Open to juniors, seniors, and graduates.

460. RECENT UNITED STATES HISTORY, 1900-1930.

(Omitted 1964-65). (4 q. hrs.)

This course will be an intensive study of America's rise to world power, the Progressive Era, the United States' role in the First World War, the 1920's, and the background to the Great Depression.

Open to juniors, seniors, and graduates.

461. RECENT UNITED STATES HISTORY, SINCE 1930.

Spring. (4 q. hrs.)

This course will be an intensive study of the Great Depression, the New Deal, Isolationism, the U.S. and the Second World War, the Cold War, the Truman Era, and the Eisenhower Years.

Open to juniors, seniors and graduates.

464. MAJOR PROBLEMS IN LATIN-AMERICAN HISTORY.

Fall (4 q. hrs.)

A systematic, analytic, and interpretive examination of the major problems of Latin-American history. Beginning with the

principal aspects of the 300-400 years of Spanish and Portuguese heritage, the study proceeds through the national period to the present, considering in turn each of the main features arising from the environment of the New World, in conjunction with the legacy of the Old.

Open to juniors, seniors, and graduates.

465. LATIN AMERICA AND THE UNITED STATES.

(Omitted 1964-65). (4 q. hrs.)

An examination of the history of the relationships between Latin America and the United States from independence to the present day. The economic, social, and intellectual factors which underlie diplomatic intercourse are analyzed.

Open to juniors, seniors, and graduates.

466. HISTORY OF AMERICAN FRONTIER, THE COLONIAL PERIOD (1492-1783). Fall. (4 q. hrs.)

A study of the discovery, settlement and westward push of population in the area now included in the United States, with emphasis on the effect of the frontier on the institutions and the people of America.

Prerequisite: History 233, or consent of instructor. Open to juniors, seniors and graduates.

467. HISTORY OF THE AMERICAN FRONTIER: THE

TRANS-APPALACHIAN FRONTIER, 1783-1850.

Winter. (4 q. hrs.)

A study of the westward push of Americans into the Mississippi Valley, the growth of new states, the West in the War of 1812, and the role of the frontier west in the growth of sectionalism in the United States prior to the Civil War.

Prerequisite: History 233 and 234. Open to juniors, seniors and graduates.

468. HISTORY OF THE AMERICAN FRONTIER: THE WESTERN FRONTIER. Spring. (4 q. hrs.)

A study of the growth of the Trans-Mississippi West from the earliest Indian and Spanish influences through the period of American expansion and acquisition, and the growth of the West to prominence in American history to 1890.

Prerequisite: History 233, 234, 235, or consent of the instructor. Open to juniors, seniors, and graduates.

469. CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1800. (Omitted 1964-65). (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: History 233, 234, 235 or consent of instructor. Open to juniors, seniors, and graduates.

470. CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1800. (Omitted 1964-65). (4 q. hrs.)

The Marshall decisions; nullification and secession controversy; the reconstruction era; the Court and big business; the New Deal and the Court; modern attitudes toward civil liberties.

Prerequisite: History 233, 234, 235 or consent of instructor. Open to juniors, seniors, and graduates.

471. CIVIL WAR AND RECONSTRUCTION. Spring. (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. SPECIAL PROBLEMS IN AMERICAN HISTORY. (Omitted 1964-65). (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student. The student will be allowed to investigate a significant topic in American history through extensive reading of the primary and secondary material in the field.

Prerequisite: History 233, 234, 235. Open to juniors, seniors, and graduates.

473. SPECIAL PROBLEMS IN EUROPEAN HISTORY. (Omitted 1964-65). (4 q. hrs.)

Special study by intensive reading in an area of history of interest to the student.

Prerequisite: History 244, 245, 246, 247 and 248. 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: History 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: History 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.

483. HISTORY OF CANADA. (Omitted 1964-65). (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. Fall. (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: History 147 or its equivalent. Open to juniors, seniors, and graduates.

485. EUROPE IN THE EIGHTEENTH CENTURY. (Omitted 1964-65). (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 I. (Omitted 1964-65). (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; the Great Depression; the era of dictatorship.

Open to juniors, seniors, and graduates.

489. THE FRENCH REVOLUTION. (Omitted 1964-65). (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 1964-65). (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: History 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 1964-65). (4 q. hrs.)

Jacksonian Democracy; Manifest Destiny; Slavery and Abolition; Lincoln, Douglas and Davis; Secession.

Prerequisite: History 233, 234. Open to juniors, seniors, and graduates.

493. THE LITERATURE OF THE HISTORY OF WESTERN CIVILIZATION. (Omitted 1964-65). (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. Spring. (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 INTELLECTUAL HISTORY OF THE UNITED STATES IN THE COLONIAL PERIOD. Fall. (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: History 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: History 233 and 234. Open to juniors, seniors, and graduates

497. HISTORY OF THE ANCIENT NEAR EAST. (Omitted 1964-65). (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. (Omitted 1964-65). (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. Fall. (4 q. hrs.)

A case study of historical biography. Lincoln biographies, special studies and documents are studied. Off-campus resources are used.

Prerequisite: History 234 or its equivalent. Open only to graduates. May be offered toward the Group III requirements in the Master of Science in Education Degree program.

561. HISTORIOGRAPHY AND HISTORICAL METHODS. (Omitted 1964-65). (4 q. hrs.)

A study of the methods of historical research. Selection of a topic of research and its limitations, the acquisition of material, and the study of style in historical writing.

Open only to graduate students.

563. SEMINAR IN AMERICAN HISTORY. Winter. (4 q. hrs.)

Intensive study of special topics in American history, to be determined by the interests of the students.

Open only to graduate students.

564. SEMINAR IN EUROPEAN HISTORY.
(Omitted 1964-65). (4 q. hrs.)

Intensive study in special topics in European history, to be determined by the interests of the student.

Open only to graduate students.

565. SEMINAR IN COLONIAL AMERICAN HISTORY.
(Omitted 1964-65). (4 q. hrs.)

Research in topics dealing with colonial American history.

Open only to graduate students.

566. SEMINAR IN CIVIL WAR AND RECONSTRUCTION.
(Omitted 1964-65). (4 q. hrs.)

Intensive study in topics dealing with Civil War and Reconstruction.

Open only to graduate students.

567. SEMINAR IN SOCIAL AND INTELLECTUAL HISTORY.
Spring. (4 q. hrs.)

Research in topics dealing with social and intellectual history of the United States.

Open only to graduate students.

568. SEMINAR IN EIGHTEENTH CENTURY EUROPE.
(Omitted 1964-65). (4 q. hrs.)

Intensive study in topics dealing with eighteenth century Europe.

Open only to graduate students.

569. SEMINAR IN NINETEENTH CENTURY EUROPE.
Winter. (4 q. hrs.)

Intensive study in topics dealing with nineteenth century Europe.

Open only to graduate students.

570. SEMINAR IN TWENTIETH CENTURY EUROPE.
(Omitted 1964-65). (4 q. hrs.)

Intensive study in topics dealing with twentieth century Europe.

Open only to graduate students.

595. THESIS. (4 q. hrs.)

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 210, 211, 212, 310, 320, 401, 420, 430 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 is required for Home Economics majors.

4. Health Education 120 is not required for graduation in this curriculum.

101. PRINCIPLES OF CLOTHING CONSTRUCTION.
Every quarter. (4 q. hrs.)

A study of the principles of simple construction processes; interpretation and use of commercial patterns.

102. 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. Every quarter. (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 and Spring. (4 q. hrs.)

Principles involved in the selection of fabrics, designs and patterns. Emphasis on advanced construction techniques and garment fitting.

210. PRINCIPLES OF FOOD PREPARATION. Fall. (4 q. hrs.)

A study of the scientific principles and techniques underlying food preparation with special emphasis on physical and chemical changes involved, and the evaluation of a standard product.

Prerequisite: Chemistry 153, 154, 155 or consent of instructor.

211. PRINCIPLES OF FOOD PREPARATION CONTINUED.

Winter. (4 q. hrs.)

Continued study of the scientific principles and techniques underlying food preparation.

Prerequisite: Home Economics 210.

212 (204). STUDIES IN EXPERIMENTAL FOODS.

Spring. (4 q. hrs.)

The study of physical and chemical reactions in food preparation and their relation to the finished product when experimental procedures are applied.

230. HOUSEHOLD EQUIPMENT. Spring. (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. Fall. (2 q. hrs.)

The significance of clothing choices in all cultures; psychological reasons for clothing selection; political and economic trends affecting clothing; and an analysis of the fashion market.

245. HOME MANAGEMENT THEORY. Fall. (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. FAMILY ECONOMICS. Spring. (4 q. hrs.)

A study of the factors affecting family financial management, including the influence of economic conditions on the welfare of families. Investments and savings; use of credit; insurance, and various types of family accounts are included.

301. TAILORING. Fall and Winter. (4 q. hrs.)

Tailoring techniques used in the construction of a suit or coat.

Prerequisite: Home Economics 201.

302 (344). ADVANCED NUTRITION. Spring. (4 q. hrs.)

Principles of human nutrition and desirable dietary habits as applied to the needs of individuals at various stages in the life span; some emphasis on current nutrition research.

Prerequisite: Home Economics 102.

303. HUMAN NUTRITION AND FOOD STUDY.

Fall, Winter, Spring. (4 q. hrs.)

A course designed to teach the fundamentals of normal nutrition and its application to feeding adults and children, along with the study of the principles involved in menu building, food buying and preparation. Not open to Home Economic majors. No prerequisite.

310 (203). FAMILY FOOD MANAGEMENT.

(Omitted in 1964-65). (4 q. hrs.)

Provides opportunity for application of scientific principles of menu construction, consumer food buying, food preparation and table service for family and company meals at various cost levels. Special emphasis on all phases of management, especially work simplification techniques.

Prerequisite: Home Economics 210, 211.

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; adaptation 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.

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 210, 211, and 245. Advanced registration with department required.

346. CHILD DEVELOPMENT. Spring. (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.

360. INSTITUTIONAL FOOD MANAGEMENT.
(Omitted 1964-65). (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, 210, and 211.

401. PRINCIPLES OF PATTERN DESIGN. Winter. (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. Spring. (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. Winter. (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. 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. (Omitted 1964-65). (4 q. hrs.)

Applications of arithmetic, algebra, geometry, and trigonometry to the laboratory work of industrial arts. Logarithmic tables and applications.

Open only to Industrial Arts majors. No credit toward graduation in other curricula.

131. ENGINEERING GRAPHICS. Every quarter. (4 q. hrs.)

Freehand and instrumental work in multiview orthographic projection, graphs, isometric drawing and isometric projection, oblique projection, sectional views, dimensioning, and working drawings. Fundamental concepts of descriptive geometry are included. A course for pre-engineering students.

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 or industrial arts activities as a teaching device in the lower grades. The laboratory phase of the course will deal with paper, textiles, ceramics, reed, raffia, blueprinting, and contemporary crafts. Activities are organized around the teaching unit theme and the techniques of requisitioning supplies are studied. Two class discussions and six laboratory hours each week.

This course is not open to industrial arts majors.

225. INTERMEDIATE GRADE HANDWORK. Fall. (4 q. hrs.)

The laboratory phase of the course will consist of exploratory experiences in woodcraft, art metal craft, simple block printing, flat plastic work and Keene's cement craft. A study of tools, materials, processes, techniques of requisitions tools and equipment for elementary craft programs will be undertaken. Two class discussions and six laboratory hours each week.

This course is not open to industrial arts majors.

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 Winter. (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 presswork, 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, type design and elementary layout work. Two hours of discussion and six hours of laboratory work each week.

Prerequisite: Industrial Arts 259.

265. WOODFINISHING. Fall and Winter. (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. Fall. (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 341. Admission to teacher education.

341. ORGANIZING AND TEACHING THE GENERAL SHOP.
Fall. (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 work per week.

Prerequisite: Industrial Arts 140.

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, metalurgy, heat-treatment, and gearing. Two hours discussion and six hours of laboratory work 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.

360. LETTERPRESS PRINTING. (Omitted 1964-65). (4 q. hrs.)

Imposition of type forms, advanced platen-press work, make-ready, feeding, and maintenance of automatic platen press, bindery processes, production cost methods. Photo-engravings, advanced lay-out and copyfitting, color printing, special printing processes. Two hours of discussion and six hours of laboratory work per week.

Prerequisite: Industrial Arts 260.

361. LINOTYPE OPERATION AND MAINTENANCE.
(Omitted 1964-65). (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. Spring. (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. Spring. (4 q. hrs.)

A continuation of Industrial Arts 380. Principles of house construction, details of construction, working drawings, and F.H.A. specifications. Two class discussions and six hours of laboratory work each week.

Prerequisite: Industrial Arts 380.

420. GAS AND ELECTRIC ARC WELDING. Fall. (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. Spring. (2 q. hrs.)

Reconditioning and care of hand and power operated saws, straight edge cutting tools, auger-bits and 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 plan, 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.

Fall and 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 needs and progress. Students taking this course for graduate credit must evaluate in the nature of a term paper 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 teaching, or those interested in crafts as a recreational or leisure-time pursuit. Technical information and laboratory experiences in graphics, leather craft, wood sculpturing and fabrication, metal foil tooling, casting crafts, and forming, shaping, sculpturing, and internal carving of plastics. 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. Two class discussions and six hours of laboratory work each week.

Open to juniors, seniors, and graduates.

550. GRAPHIC ARTS IN A CHANGING CULTURE.

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.

Fall. (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. Spring. (4 q. hrs.)

Sociological principles, theories, and beliefs which have contributed to present educational practices; relationships of practical arts education, vocational education, and general education; 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. (Omitted 1964-65). (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

(Taught in the Department of English)

210. 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. Attention is given to the social, economic, and political forces influencing the historical development of the American newspaper. Consideration is also given to the development of the mass media in the twentieth century.

211, 212. 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*. Attention is given to identification of elements of the news, basic news story form and variations, and techniques of reporting. Attention is directed to the art of interviewing, fundamentals of style, feature writing, and specialized areas of reporting.

310, 311. ADVANCED REPORTING AND NEWS EDITING.

Fall and Winter. (4 q. hrs. for each course)

Editing the news, with attention to headwriting and newspaper makeup and design. Advanced types of news investigation and treatment. Writing of editorials and preparation of editorial judgments. A position on the *Eastern State News* is required for credit.

Prerequisite: Journalism 210, 211, 212.

312. FEATURE WRITING AND MAGAZINE ARTICLES.

Spring. (4 q. hrs.)

Writing newspaper features and magazine articles. Attention is given to the study of markets for factual features and articles, selection of subjects for articles, investigation of subjects, organization of story, writing and re-writing of articles, and preparation of manuscripts. Consideration is also given to copyright and queries. Students attempt to sell articles(s).

460. SUPERVISION OF HIGH SCHOOL PUBLICATIONS.

(Omitted 1964-65). (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.

LATIN

(See Foreign Languages)

LIBRARY SCIENCE

The Library Science curriculum provides a sequence of courses basic to the training of librarians.

Minimum state certification requirements for school librarians are as follows:

"Librarian, sixteen (16) semester hours in library science, including three (3) semester hours in organization and administration.

Coordinator of Instructional Materials, twenty (20) semester hours in the field, including twelve (12) semester hours in library science; three (3) semester hours in organization and administration; and five (5) semester hours in audio-visual and related areas."

320 (250). THE SCHOOL LIBRARY MATERIALS CENTER.

Fall. (4 q. hrs.)

Nature and administration of school libraries and their place in the educational system. Early concepts, their developing role as instructional materials centers, functions, organization, and standards. Service to faculty and students.

330. MATERIALS FOR CHILDREN. Winter. (4 q. hrs.)

Types of resources best suited to children of grades 1 through 6. Includes reading and evaluation of materials both

past and present; the study of children's needs and interests; their reading habits and abilities. A background course designed to familiarize the student with the nature, extent, and purpose of children's materials.

332 (326). MATERIALS FOR YOUNG PEOPLE. Fall. (4 q. hrs.)

Types of resources best suited for adolescents. Includes reading and evaluation of materials; the study of young people's needs and interests, abilities, and reading habits. Designed to acquaint the student with extent, selection, and use of materials.

430 (350). ORGANIZATION OF LIBRARY MATERIALS.
Spring. (4 q. hrs.)

Principles and techniques of cataloging, classification, and the assigning of subject headings with practical application to books and other library materials. Detailed study is made of the Dewey Decimal Classification Scheme.

Prerequisite: Library Science 320.

450 (325). REFERENCE MATERIALS AND SERVICES.
Winter. (4 q. hrs.)

Introduction to general and specialized sources of information: their content, evaluation, and use. Includes preparation and use of bibliographies; the study of indexes, dictionaries, encyclopedias, and other reference tools.

Prerequisite: Library Science 320, or consent of instructor.

460 (324). SELECTION OF LIBRARY MATERIALS.
Spring. (4 q. hrs.)

Sources of and criteria for selection of all types of library materials; bibliographical tools, reviewing and evaluating media; publishers and jobbers; purchasing procedures; and other problems related to selection.

Prerequisite: Library Science 320.

490 (441). OBSERVATION AND PRACTICE.

Fall, Winter, Spring. (4 q. hrs.)

Designed to provide practical experience in library work with special emphasis on service to the public. Eight periods per week under professional supervision comparable to student teaching. Part of this experience may be in the audio-visual field.

Prerequisite: At least four Library Science courses including 320, 430, and 450, or consent of instructor.

MATHEMATICS

Notes. In planning student programs it is important to check the course prerequisites as listed with the course descriptions below. "College preparatory mathematics," as used here, includes high school courses in algebra, geometry, and trigonometry and modern courses which integrate these subjects; it does not include "general mathematics," "consumer mathematics," "shop mathematics," etc.

A limited amount of programmed materials and tutoring service is available in the mathematics office for students who may wish to review high school mathematics before enrolling in Mathematics 130.

Students with a weak background in mathematics may satisfy the general mathematics requirements by taking Mathematics 125 if 4 quarter hours are required, Mathematics 125 and 126 if 8 quarter hours are required. Students with a background of two and one-half or more units of college preparatory mathematics in high school should take courses numbered 130 or higher to satisfy general requirements.

Students with a background of three or more units of college preparatory mathematics including trigonometry should take the mathematics department placement test before enrolling in Mathematics 130.

122, 123. NUMBER SYSTEMS AND INFORMAL GEOMETRY.

Fall, Winter, Spring; Winter, Spring.

(3 q. hrs. for each course).

The natural number system is developed starting from experiences with sets of physical objects. The real number system is developed by successive extension of the natural number system. Geometry is developed informally on the basis of experiments, measurements, and observation, using physical objects and drawings.

Prerequisite: Enrollment in the curriculum for elementary teachers. Simultaneous registration in Education 120 is expected. Mathematics 122 is prerequisite to Mathematics 123.

125. ELEMENTARY MATHEMATICS. Every quarter (4 q. hrs.)

A selection of units on the basic concepts of arithmetic, algebra, geometry.

126. ELEMENTARY MATHEMATICS. Winter. (4 q. hrs.)

Topics in elementary algebra and geometry including right triangle trigonometry and elementary statistics.

Prerequisite: Mathematics 125.

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: Mathematics 130, or three years of college preparatory mathematics and satisfactory placement test score.

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 four years of college preparatory mathematics and satisfactory test score.

225. AN INTRODUCTION TO COLLEGE MATHEMATICS.
Spring. (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.

227. SCHOOL GEOMETRY. Winter. (4 q. hrs.)

The foundations of geometry. A study of the elementary concepts of geometry from a modern mathematics point of view.

Prerequisite: Two years of college preparatory mathematics.

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.

231. ELECTRONIC COMPUTER PROGRAMMING.
Fall, Winter, Spring. (4 q. hrs.)

Techniques and digital computer programming applicable to large as well as smaller type computers. Programming digital computers with actual laboratory practice on the IBM 1620 using basic machine language, SPS, FORTRAN, and GOTRAN.

Not open to freshmen.

232. INTRODUCTION TO COMPUTER PROGRAMMING.
Every quarter. (1 q. hr.)

Computer programming in basic machine language and in FORTRAN.

235. CALCULUS. Fall, Winter, Spring. (4 q. hrs.)

Limits and continuity. The derivative concept. Differentiation techniques through transcendental functions. Law of the Mean. Applications.

Prerequisite: Mathematics 134.

236. CALCULUS. Fall, Winter, Spring. (4 q. hrs.)

Differentials. The integral concept. Integration techniques. Applications.

Prerequisite: Mathematics 235.

320. MATHEMATICS IN GRADES K-3. Fall and Spring. (2 q. hrs.)

Methods and materials for teaching mathematics in grades K-3. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

321. MATHEMATICS IN GRADES 4-6. Fall and Spring. (2 q. hrs.)

Methods and materials for teaching mathematics in grades 4-6. Credit for this course does *not* count toward graduation except in the curriculum for the preparation of prospective elementary school teachers.

Prerequisite: Mathematics 122, 123.

340. METHODS OF TEACHING MATHEMATICS.

Fall, 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 or consent of the instructor.

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. 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.

Offered on demand in extension. (4 q. hrs.)

Assigned readings, group discussions, and individual or group projects and reports.

Not open to mathematics majors.

392. SOME NEW UNITS IN MATHEMATICS FOR THE UPPER GRADES.

Offered on demand in extension. (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.

Not open to mathematics majors.

393. NUMBER AND OPERATION.

Offered on demand in extension. (2 q. hrs.)

A study of the basic concepts of arithmetic from a modern point of view. The emphasis in this course is on structure, continuity, and understanding through discovery.

Not open to mathematics majors.

460, 461. ADVANCED CALCULUS.

Winter, Spring. (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. Fall, Winter, Spring; 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 to 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. (Omitted 1964-65). (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 1964-65). (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 quadrature 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 1964. (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 of the Graduate School.

520. HIGHER GEOMETRY. Summer 1965. (4 q. hrs.)

A selection of topics from projective geometry, differential geometry, non-Euclidean 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 of the Graduate School.

530. ANALYSIS. Summer 1966. (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 of the Graduate School.

540. THE TEACHING OF ARITHMETIC IN THE PRIMARY AND INTERMEDIATE GRADES. Summer 1964. (4 q. hrs.)

The techniques, methods, and materials used 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 the Dean of the Graduate School.

541. THE TEACHING OF MATHEMATICS IN GRADES 7, 8, AND 9. Summer 1965. (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 of the Graduate School.

550. MATHEMATICS IN MODERN EDUCATION AND LIFE. Summer 1964. (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 degree M.S. in Ed.

570. PROBLEMS IN THE TEACHING OF MATHEMATICS. Summer 1964. (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 development of the musical skills and understanding of the prospective elementary school teacher through attention to the following: group and individual singing; use of the piano and auto harp as accompanying instruments; responses to rhythm through bodily movements and playing rhythm instruments; ear training and simple dictation; music reading; and acquaintance with music literature used in the elementary general music class.

For Elementary and Junior High School Majors except those taking an area of concentration in music.

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. The fall quarter also includes a brief survey of music literature.

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 expects the development of fundamental vocal techniques, an introduction to song interpretation, and attention to demonstrated methods of teaching singing.

146. CLASS INSTRUCTION IN VIOLIN. Fall. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

147. CLASS INSTRUCTION IN VIOLIN AND VIOLA.

Winter. (2 q. hrs.)

A study of instrumental technique, including methods of teaching.

148 (238). CLASS INSTRUCTION IN VIOLINCELLO AND CONTRA-BASS. Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

200 (236). CLASS INSTRUCTION IN CLARINET, FLUTE AND SAXOPHONE. Fall and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

201 (338). CLASS INSTRUCTION IN FLUTE, OBOE, AND BASSOON. Winter and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

204 (237). CLASS INSTRUCTION IN TRUMPET AND FRENCH HORN. Fall and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

205 (337). CLASS INSTRUCTION IN TROMBONE, BARITONE, TUBA AND DRUMS. Winter and Spring. (2 q. hrs.)

A study of beginning instrumental technique, including methods of teaching.

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. 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. Includes a study of harmonic and contrapuntal devices used for an understanding of the literature of 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)

243, 244, 245. VOCAL DICTION. Fall, Winter, Spring.

(1 q. hr. each quarter)

A course designed for voice majors (vocal performance emphasis); concerned with problems of pronunciation, meaning, dictionary use, and communication in the singing of English, Italian, French, and German. Fall quarter is devoted to English and Italian, Winter quarter to German, and Spring quarter to French.

Prerequisite: Applied voice 133, 134, 135, or equivalent.

256, 257, 258. 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.)

320, 321. HISTORY AND LITERATURE OF MUSIC.

Fall and Winter. (4 q. hrs. for each course)

The first course emphasizes the development of music from its beginning to the present time. A survey is made of schools, nationalities, composers, emphasizing representative music literature. The second quarter's work is designed to assist the student to an understanding and an appreciation of music from the listener's standpoint.

Not open to music majors or minors.

322. HISTORY AND LITERATURE OF MUSIC. Spring. (4 q. hrs.)

This course emphasizes twentieth-century music. An analysis of small and large forms points the direction of contemporary styles in composition. American composers, their contribution to form and harmonic style, and their literary offerings are included.

Not open to music majors or minors.

328 (228). MUSIC IN ELEMENTARY SCHOOLS.

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. For Elementary Education Majors except those taking an area of concentration in music.

333, 334, 335. THE THIRD YEAR'S WORK IN APPLIED MUSIC.

Every quarter. (1 q. hr. for each course)

Prerequisite: Admission to teacher education with major or minor in Music, or elementary major with concentration on music.

339. METHODS OF TEACHING VOCAL MUSIC IN ELEMENTARY SCHOOLS. 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.

340. METHODS OF TEACHING MUSIC IN SECONDARY SCHOOLS. Winter. (4 q. hrs.)

The music curriculum is studied with special emphasis upon the purposes and objectives of secondary school music; principles of organizing and developing music classes and performing groups; and selection of appropriate materials for programs, contests and festivals.

Prerequisite: Admission to teacher education.

342. OPERA WORKSHOP. Fall, Winter, or Spring. (2 q. hrs.)

The course will be offered during the quarter in which an opera is performed. The class will be four times per week and will include all aspects of staging, acting and singing. The opera preparation will serve as a laboratory period.

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. HISTORY AND LITERATURE OF MUSIC. Fall. (4 q. hrs.)

The development of music from the ancient times to the Baroque.

Open only to music majors and minors.

352. HISTORY AND LITERATURE OF MUSIC. Winter. (4 q. hrs.)

Music from the Baroque to the Romantic Period.

Open only to music majors and minors.

353. HISTORY AND LITERATURE OF MUSIC. Spring. (4 q. hrs.)

Music from the Romantic Period to the present.

Open only to music majors and minors.

356, 357, 358. 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, 435. THE FOURTH YEAR'S WORK IN APPLIED MUSIC. Every quarter. (1 q. hr. for each course)

442. OPERA WORKSHOP. Fall, Winter, or Spring. (2 q. hrs.)

The course will be offered during the quarter in which an opera is performed. The class will be four times per week and will include all aspects of staging, acting and singing. The opera preparation will serve as a laboratory period.

Prerequisite: Music 342.

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 1964-65). (4 q. hrs.)

A study of concepts of musical factors and their psychological 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 1964-65). (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, 457, 458. ENSEMBLE: CHORUS, SYMPHONIC BAND, ORCHESTRA, CECILIAN SINGERS, MEN'S GLEE CLUB. (1 q. hr. for any combination of three organizations in a given quarter.)

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.

Open to juniors, seniors, and graduates.

460. MARCHING BAND PROCEDURE. (Omitted 1964-65). (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. (Omitted 1964-65). (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.

462. PIANO PEDAGOGY AND LITERATURE. Spring. (4 q. hrs.)

A study of the piano literature by periods with emphasis on elementary teaching material from each era, together with a study of style, performance practices and problems of the music of individual composers.

Prerequisite: Music 133A, 134A, 135A, 233A, 234A, 235A. Open to juniors, seniors, and graduates.

463 (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.

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 of the Graduate School.

504, 505, 506, 507. INDIVIDUAL INSTRUCTION.

Every quarter. (2 q. hrs.)

Advanced study in piano, voice, band, and orchestral instruments. Designed to increase personal performance as well as to develop a repertoire.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

510. COUNTERPOINT. Fall. (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 of the Graduate School.

511. ADVANCED COUNTERPOINT. Winter. (4 q. hrs.)

The course includes a study of eighteenth century counterpoint in strict and free styles. A study is made of canon and fugue.

Prerequisite: Music 510. Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

512. COMPOSITION IN SMALL FORMS. Winter. (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 of the Graduate School.

513. BAND LITERATURE FOR THE PUBLIC SCHOOLS.

(Omitted 1964-65). (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 of the Graduate School.

514. MATERIALS OF THE ORCHESTRA.

(Omitted 1964-65). (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 of the Graduate School.

515. MATERIALS OF VOCAL GROUPS. (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 of the Graduate School.

516. ADVANCED CONDUCTING AND PERFORMANCE PRACTICES.

(4 q. hrs.)

A study of the styles of choral, band, and orchestra literature as they pertain to the problems of the conductor. The work of the course will include score reading, interpretation and study of compositions of the significant composers in both instrumental and choral fields. The student will concentrate in the area of his special interest.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

517. ANALYTICAL TECHNIQUES. (4 q. hrs.)

An investigation of structure, stylistic characteristics and compositional techniques.

Prerequisite: Music 453. Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

530. CHAMBER MUSIC LITERATURE. (4 q. hrs.)

Survey of the literature of chamber music, quartet, trio, quintet, etc., in various instrumental combinations. The literature is presented through analysis of formal structure and aesthetic values. The core material will include the music of Haydn, Mozart, Beethoven, and Brahms.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

531. PRINCIPLES OF SINGING. (4 q. hrs.)

A consideration of the processes involved in voice production: respiration, phonation, articulation, and resonance. The psychological, physiological, and acoustical problems involved in the teaching of singing, either in private or class lessons: voice classification, quality, diction, registration, breath support, and breath control. The course is designed for the advanced student.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

532. SYMPHONIC LITERATURE. Fall. (4 q. hrs.)

A survey of orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, the National schools, and late European and American developments. Works will be analyzed and their historical, cultural, and philosophical background discussed.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

534. SONG LITERATURE. 1965. (2 q. hrs.)

Prerequisites, diction and elementary grammar in either French or German. Techniques of song study, interpretation, and program building. Application of these techniques to the song literature of Germany, France, Italy, England, America, and other national areas.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

536. OPERA AND ORATORIO. 1965. (4 q. hrs.)

A survey of oratorio and opera literature from the beginning to contemporary times. Arias will be sung and recorded music will be studied.

Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

550. MUSIC IN HISTORY. (Omitted 1964-65). (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 aesthetic epochs of the growth of civilization.

Open only to graduates. May be offered toward the Group III requirements for the degree M.S. in Ed.

551. MUSIC IN CONTEMPORARY CULTURE.

(Omitted 1964-65). (4 q. hrs.)

This course is designed for the non-music student and is planned to survey the place of music in the cultural pattern of today. A study is made of the music of the radio, moving pictures, stage, and the concert hall. Contemporary personalities, organizations, and centers of musical activity are surveyed.

Open only to graduates. May be offered toward the Group III requirements for the degree M.S. in Ed.

553. MUSIC IN WESTERN CIVILIZATION. (4 q. hrs.)

A study of the place of music in the evolution of civilization.

Open only to graduates.

555. TEACHING TECHNIQUE OF STRINGS. (2 q. hrs.)

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.

(Omitted 1964-65). (2 q. hrs.)

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.

Fall. (2 q. hrs.)

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 for assemblies in music, community relationships and materials in music are included for detailed study.

Open only to graduates.

565. COMMUNITY MUSIC. Summer. (2 q. hrs.)

A study is made of music appropriate for community gatherings. The community sing, camp-fire singing, and the church choir are given comprehensive study.

Open only to graduates.

570. SURVEY OF MUSIC LITERATURE.

(Omitted 1964-65). (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.

578. PERFORMANCE IN MUSIC. Winter and Spring. (4 q. hrs.)
Areas of special interest in preparation for the performance major.

Open only to graduates.

580. SEMINAR IN THE PROBLEMS OF MUSIC EDUCATION.
(Omitted 1964-65). (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.

581. MUSIC OF THE TWENTIETH CENTURY.
(Omitted 1964-65). (4 q. hrs.)

The chief musical developments in Western Europe and the Americas from 1890 to the present.

Open only to graduates.

595. THESIS. (4 q. hrs.)

Applied Music

Special lessons are offered in the principal instruments and performance. Instruction is available in strings: violin, viola, violoncello, contrabass; 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 pages 116, 117, 123, 133.

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 q. hrs.
Minor	Piano or Voice	6 q. hrs.
2nd Minor	Band or Orch. Instrument	3 q. hrs.
or		
Major	Band or Orch. Instrument	15 q. hrs.
Minor	Piano	3 q. hrs.
2nd Minor	Voice	3 q. hrs.

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 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.

CHORUS

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.

SYMPHONIC BAND

A marching unit during the football season and a concert organization throughout the year, giving concerts for student body and the public. Some instruments are furnished to members by the University.

ORCHESTRA

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.

CECILIAN SINGERS

A women's glee club open to all women students who enjoy singing. This group presents programs several times throughout the year.

MEN'S GLEE CLUB

A men's chorus open to all men students who enjoy singing. Programs are presented 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 appropriate junior and senior recitals 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

It is an aim of the study of philosophy to develop a perspective and a clearer understanding of the nature and relation of Man, God, the World, and Value. The courses described below explore these areas of concern through examination of primary source materials, lectures, and class discussions.

Course Sequences

Philosophy 300 (Introduction) provides a problems approach to techniques and issues of philosophy. It is recommended as the best choice for students who elect a single course. It establishes a background for further work in philosophy.

Philosophy 301 (History of Philosophy: Ancient) utilizes an historical rather than a problems approach to philosophic inquiry. This course can supplement Philosophy 300 or can serve as an introduction. If a student anticipates the election of more than one of the history courses, it would be advisable to take them in the order of their historical sequence.

For students who may elect Philosophy as their option to satisfy the Humanities requirement, at least two approaches are feasible (depending on the student's interest): Philosophy 300 and/or 301 plus additional work in History of Philosophy or a selection of advanced courses.

The Minor in Philosophy (B.A. and B.S. degrees) should be planned in consultation with the department head.

300. INTRODUCTION TO PHILOSOPHY.

Fall, Winter, Spring. (4 q. hrs.)

The nature and methods of philosophy presented through analysis of selected 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 Values in which the ideas of philosophers from the Pre-Socratics through Aristotle are examined.

305. HISTORY OF PHILOSOPHY: MEDIEVAL. Winter. (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.

Prerequisite: Philosophy 300 or 301.

306. HISTORY OF PHILOSOPHY: MODERN. Spring. (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.

Prerequisite: Philosophy 300 or 301.

400. LOGIC. Winter and 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. Fall. (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. Winter. (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 degree M.S. in Ed.

PHOTOGRAPHY

(See Chemistry 300)

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 each quarter of residence unless this requirement is modified by the University 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 includes 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 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 lock, see page 72.

Service Courses

Service courses in physical education are numbered to indicate the level of the work. Courses in the 100 series are intended for beginners; 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.

- 002. BASEBALL (Varsity). Spring. (1 q. hr.)
- 003. BASKETBALL (Varsity). Winter. (1 q. hr.)
- 005. SOCCER (Varsity). Fall. (1 q. hr.)
- 009. FOOTBALL (Varsity). Fall. (1 q. hr.)
- 012. GOLF (Varsity). Spring. (1 q. hr.)
- 013. GYMNASTICS (Varsity). Winter and Spring. (1 q. hr.)
- 014. TENNIS (Varsity). Spring. (1 q. hr.)
- 015. WRESTLING (Varsity). Winter. (1 q. hr.)
- 016. TRACK (Varsity). Fall and Spring. (1 q. hr.)
- 018. SWIMMING (Varsity). Winter. (1 q. hr.)
- 100. BASIC PHYSICAL EDUCATION. Fall and 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.
- 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.)
- 110. ARCHERY (Beginning). Fall and Spring. (1 q. hr.)
- 111. BADMINTON (Beginning). Fall and Spring. (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 (Beginning). Spring. (1 q. hr.)
- 117. STUNTS AND TUMBLING. Winter. (1 q. hr.)
- 118. SWIMMING (Beginning). Every quarter. (1 q. hr.)
For beginning swimmers only. Persons able to swim the width of a 35-foot pool should enroll in P.E.M. 318.
- 119. BOWLING (Beginning). Winter and 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.
Fall and Spring. (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.
Winter and 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. Open to men and women.

252. ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL-CHILD.

See Physical Education (Women).

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: Four quarter hours of physical education activities at the 200 level; admission to teacher education.

347. BASKETBALL COACHING. Fall and Spring. (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. Spring. (4 q. hrs.)

Organization and administration of camps including program planning; counselor problems; camp policies.

357. GOLF COACHING. (Omitted 1964-65). (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 1964-65). (4 q. hrs.)

Fundamentals of heavy apparatus; rings; trampoline; free exercise.

359. TENNIS COACHING. (Omitted 1964-65). (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 1964-65). (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. (Omitted 1964-65). (2 q. hrs.)

Study of rules and fundamentals of officiating. Relation of the official to the Illinois High School Athletic Association, coaches, and team members.

455. BASKETBALL OFFICIATING. (Omitted 1964-65). (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. Fall. (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. Winter. (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 of the Graduate School. 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 of the Graduate School. 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 of the Graduate School. Open to both men and women.

550. SPORTS AND PHYSICAL EDUCATION IN AMERICAN SOCIETY. Summer. (4 q. hrs.)

A course designed for the non-major of physical education to give the student an appreciation of the contributions of physical education and athletics in our American culture. Some time is devoted to examining the role of physical education in early civilization.

Open only to graduates. May be offered toward the Group III requirements for the degree M.S. in Ed. 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. Before completing the six terms of required physical education, the student shall have taken:

3 courses in sports (some team and some individual)

2 courses in dance

1 course in fundamentals

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 those 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. No course shall be repeated for credit without permission of the head of the Physical Education Department. Upperclassmen are encouraged to elect courses that interest them.

During freshman orientation each new student is given a general motor ability test, results of which are used in the Fundamentals course. Regulation costumes should not be purchased until students are notified by the instructor.

Service Courses

098, 099. 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.

172. BASKETBALL (Beginning). Winter. (1 q. hr.)

173. FIELD 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, Spring, and Summer. (1 q. hr.)

184. RECREATIONAL GAMES. Winter and Spring. (1 q. hr.)

185. STUNTS AND APPARATUS. Fall and Spring. (1 q. hr.)

186. SWIMMING (Beginning). Every quarter. (1 q. hr.)

187. TENNIS (Beginning). Fall and Spring. (1 q. hr.)

190. FOLK AND SQUARE DANCE. Every quarter. (1 q. hr.)
Open to both men and women.

191. MODERN DANCE. (Beginning). Fall, Winter and Spring.
(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.

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. FIELD HOCKEY (Intermediate). (Omitted 1964-65). (1 q. hr.)

Prerequisite: Physical Education 173 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). Every quarter. (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). Every quarter. (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. GAMES FOR THE ELEMENTARY SCHOOL. Winter. (1 q. hr.)
Prerequisite: Physical Education 130. For physical education majors only.

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.
Prerequisite: Physical Education 391. For physical education majors and minors only, or permission of the instructor.

Professional Courses

130. PLAYS, GAMES AND ACTIVITIES OF LOW ORGANIZATION.
 Fall. (4 q. hrs.)
 Games, stunts, athletic and rhythmic activities for the elementary grade children as basic to the high school activities.
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 upon 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. (4 q. hrs.)

See Physical Education (Men).

Prerequisite: Zoology 225.

252 (352). ACTIVITY NEEDS AND INTERESTS OF THE ELEMENTARY SCHOOL CHILD. Spring. (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 1964-65). (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. (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. (Omitted 1964-65). (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. (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. Summer. (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.

360. INTRODUCTION TO ELEMENTARY SCHOOL PHYSICAL EDUCATION. Fall, Winter, Spring. (2 q. hrs.)

A study of physical education as it relates to the total education of children K-6. Emphasis on physical education as planned, developmental experiences within rhythms, games, stunts, tumbling, track and field, and self-testing activities geared to the organic, social and emotional needs of boys and girls.

Required of men and women majors in the School of Elementary and Junior High School Teaching.

361. PHYSICAL EDUCATION ACTIVITIES FOR ELEMENTARY SCHOOLS. Spring. (4 q. hrs.)

A study of body mechanics and games (exclusive of sports, rhythms, stunts, apparatus, and tumbling). Emphasis is on the

analysis of and practice in such basic skills as throwing, catching, dodging, striking an object.

Prerequisite: Physical Education 360 or 130. Open to both men and women, especially those who have selected physical education as their area of concentration.

362. RHYTHMICAL ACTIVITIES FOR ELEMENTARY SCHOOLS.
(Omitted 1964-65). (4 q. hrs.)

A study of dance as used in the instructional phase of the elementary school physical education program. Emphasis is on the basic locomotor and nonlocomotor activities as they relate to movement in general as well as to movements specified in folk dance or to movements incorporated in singing games and dance exploration.

Prerequisite: Physical Education 360 or 130. Open to both men and women, especially those who have selected physical education as their area of concentration.

363. TUMBLING AND APPARATUS ACTIVITIES FOR ELEMENTARY SCHOOLS. Winter. (4 q. hrs.)

A study of tumbling and apparatus work is used in the instructional phase of the elementary school physical education program. Particular attention to activities performed on mats, balance beams, climbing ropes, and playground apparatus. Analysis of and practice in spotting technique, supporting, vaulting, hanging, mounting, and dismounting techniques.

Prerequisite: Physical Education 360 or 130. Open to both men and women, especially those who have selected physical education as their area of concentration.

450. EVALUATION OF PHYSICAL EDUCATION ACTIVITIES.
Fall and Spring. (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 1964-65). (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 student who is a minor in physical education and for the student who is a major in the School of Elementary and Junior High School Teaching. No credit toward a major in physical education.

459. CURRENT TRENDS IN THE TEACHING OF PHYSICAL EDUCATION IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL.
(Omitted 1964-65). (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 252 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. Fall. (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 of the Graduate School. Open to both men and women.

512. APPLICATION OF PSYCHOLOGY TO PHYSICAL EDUCATION. Spring.

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 of the Graduate School. Open to both men and women.

513. PLANNING THE RECREATION PROGRAM.

(Omitted 1964-65). (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 of the Graduate School. 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.

(Omitted 1964-65). (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.

Summer. (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. (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.

(Omitted 1964-65). (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.)

PHYSICAL SCIENCE, GENERAL

100. PHYSICAL SCIENCE. Fall, Winter and Spring. (4 q. hrs.)

Basic concepts of physical science are presented through 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, Winter, and Spring. (4 q. hrs.)

Principles of chemistry having particular application in the field of elementary education are presented.

102. PHYSICAL SCIENCE. (Omitted 1964-65). (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.

Fall, Winter, Spring. (4 q. hrs. for each course)

Physics 120, astronomy, mechanics, and heat; Physics 121, sound and acoustics as applied to music; Physics 122, light, electricity, and modern physics. Enrollment limited to music majors or minors.

130, 131, 132. FIRST YEAR COLLEGE PHYSICS.

Every quarter. (4 q. hrs. for each course)

Physics 130, mechanics; 131, wave motion, heat, and electricity; 132, magnetism, light, and nuclear physics.

Acceptable as a year of laboratory science in any curriculum. These courses should be taken in the order listed.

236. PHYSICAL OPTICS AND QUANTUM THEORY.

Every quarter. (4 q. hrs.)

This is a continuation of the first year college physics sequence. Polarization; interference; diffraction; atomic models; spectra; relativity; X-rays; matter waves.

Prerequisite: First year college physics.

Co-requisite: Mathematics 235.

239. MECHANICS. Fall and Winter. (4 q. hrs.)

Motion of a particle in one dimension; simple harmonic motion; damped motion; forced harmonic oscillator; vector algebra; vector operators in various coordinate systems.

Prerequisite: First year college physics and Mathematics 235, co-requisite Mathematics 236. Four hours a week.

240. MECHANICS. Winter and Spring. (4 q. hrs.)

Conservative fields; central force motion; motion of a system of particles; gravitational potential; gravitational fields, vibrating string; accelerated coordinate systems.

Prerequisite: Physics 239. Four hours a week.

250. ELECTRONICS. Spring. (4 q. hrs.)

A study of the fundamentals of tube and transistor electronics. Emphasis is on amplifiers and the special circuits used in applied science, such as cathode followers, multivibrators and timing 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. ELECTRICITY AND MAGNETISM.

Fall and Spring. (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. 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 and 236. 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 one year of calculus. Open to juniors, seniors, and graduates.

465. HEAT AND THERMODYNAMICS. Spring. (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 one year of calculus. 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; interaction of photons with matter; atomic structure; atomic spectra; an introduction to the ideas of quantum mechanics.

Prerequisite: First year college physics and one year of calculus. Four hours a week. Open to juniors, seniors, and graduates.

467. INTRODUCTION TO QUANTUM MECHANICS. Fall. (4 q. hrs.)

Limitations of classical mechanics; Schrodinger equation; harmonic oscillator; uncertainty principle; exclusion principle; periodic table; perturbation theory; hydrogen atom; electron spin.

Prerequisite: First year college physics and one year of calculus. Four hours a week. Open to juniors, seniors, and graduates.

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. Open to juniors, seniors, and graduates.

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. Open to juniors, seniors, and graduates.

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. Offered on demand. (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: Physics 240 or equivalent and Mathematics 351. Four hours a week. Primarily for graduates. Open to seniors with permission of the instructor and the Dean of the Graduate School.

535. THEORETICAL MECHANICS. Offered on demand. (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 of the Graduate School.

580. CURRENT LITERATURE IN PHYSICS.

Offered on demand. (4 q. hrs.)

Reading, conference, oral reports.

Prerequisite: Two years' work in physics. Open only to graduates.

595. THESIS. (4 q. hrs.)

PHYSIOLOGY

(Taught in Department of Zoology)

345. PHYSIOLOGY. Fall, Winter, Spring; Summer. (4 q. hrs.)

A study of the basic physiological principles is followed by experimental studies of muscle-nerve complexes, circulation, respiration and digestion.

Prerequisite: Zoology 110 or 120.

346. PHYSIOLOGY. (Omitted 1964-65). (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

(Taught in the Social Science Department)

100. ELEMENTS OF GOVERNMENT.

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

A comparative analysis of the institutions and ideologies of contemporary democratic and dictatorial governments designed to provide a systematic overview of the field for students who will not major or minor in Political Science.

Not open to students who have received credit for Social Science 261. Students in pre-law or who will major or minor in Political Science should take 110 as their first course instead.

110, 111. AMERICAN NATIONAL GOVERNMENT.

Every quarter. (4 q. hrs. each)

A comprehensive examination and analysis of the fundamental principles of the American constitutional system. First quarter covers limited government, the *Constitution*, and constitutionalism; federalism; the roles of the judiciary; the areas of civil liberties, citizenship and immigration; the suffrage, nominations, and elections. Second quarter treats the popular, legislative, and administrative processes, and the roles of government in the economic order.

Not open to students who have received credit for Social Science 265. Students who do not plan to take 110 and 111 should take 100 instead.

112. AMERICAN STATE AND LOCAL GOVERNMENTS.

Fall and Spring. (4 q. hrs.)

A comprehensive analysis of the structures and functioning of provincial governments and their political subdivisions in the United States with particular attention to the governments of Illinois and to problems of administrative reorganization.

Not open to students who have received credit for Social Science 262.

220. INTRODUCTION TO INTERNATIONAL POLITICS. Fall. (4 q. hrs.)

A comprehensive examination and analysis of the nature of the State system, of forces affecting international politics, of the sources of conflicts in the international community, and of the possibilities of their solution by "power politics" and/or by the development of international institutions.

Open to freshmen.

221. CONTEMPORARY WORLD POLITICS. Winter. (4 q. hrs.)

A comprehensive examination and analysis of the course of world politics since 1941 with particular attention to the impact of continuing crises upon the external policies of major powers and to the interaction of foreign and domestic policy considerations.

222 (468). INTERNATIONAL ORGANIZATION. Spring. (4 q. hrs.)

A comprehensive examination and analysis of the development, scope, and functions of general international organization with chief emphasis upon the United Nations system and the maintenance of international peace and security.

Not open to students who have received credit for Social Science 468.

280. INTRODUCTION TO POLITICAL ANALYSIS.

(Omitted 1964-65). (4 q. hrs.)

Analytical approaches to the study of Western and Non-Western political systems with emphasis on political problems, functions, and processes.

Prerequisite: Political Science 110, 111 (or Social Science 265), or consent of the instructor.

330. COMPARATIVE GOVERNMENTS: THE UNITED KINGDOM.

Fall. (4 q. hrs.)

An intensive study of the political system of the United Kingdom of Great Britain and Northern Ireland with particular attention to the nature of the Constitution, the party system, Parliament, the Crown, and the Commonwealth of Nations.

Prerequisite: Political Science 100 or 110 (or Social Science 261 or 265), or consent of the instructor.

331. COMPARATIVE GOVERNMENTS: WESTERN EUROPE.

Winter. (4 q. hrs.)

An intensive study of the political systems of France, West Germany, and/or other countries of Western Europe selected by the instructor.

Prerequisite: Political Science 100 or 110 (or Social Science 261 or 265), or consent of the instructor.

332. COMPARATIVE GOVERNMENTS: THE U. S. S. R.

Spring. (4 q. hrs.)

An intensive study of the political system of the Union of Soviet Socialist Republics with particular attention to the role of

the Communist Party, the nature of the constitutional system, and the evolution of Marxism-Leninism-Stalinism.

Prerequisite: Political Science 100 or 110 (or Social Science 261 or 265), or consent of the instructor.

336. GOVERNMENTS OF ASIA. Winter. (4 q. hrs.)

A comprehensive study of the historical growth and the structural development of political concepts and institutions in the three major powers of Asia-China, Japan, and India. Treatment is given to the role played by these countries in world politics and regional developments in southeast Asia.

Prerequisites: One academic year of Political Science (three 4 q. hr. courses) or consent of the instructor. Open to juniors and seniors.

364 (464). PROBLEMS OF LOCAL GOVERNMENT.

Winter. (4 q. hrs.)

An intensive study and critical analysis of the problems of local government at the county, municipal, township, and special district levels with particular attention to existing situations in Illinois and to proposals for reform and/or reorganization of governmental units.

Prerequisite: Political Science 112 (or Social Science 262), or consent of the instructor. Not open to students who have received credit for Social Science 464.

365. POLITICAL BEHAVIOR. (Omitted 1964-65). (4 q. hrs.)

Analysis of individual and group behavior in the political context with emphasis on the literature of current research in American political institutions and processes.

Prerequisite: Political Science 110, 111, or consent of the instructor.

366 (466). POLITICAL PARTIES AND ELECTIONS.

Fall. (4 q. hrs.)

An intensive analysis of political parties, party systems, policies, and electoral arrangements, both in the United States and abroad, with particular attention to the organization, functions, and methods of American political parties and to the interrelationships of electoral and party systems.

Prerequisite: Political Science 100, or 110 and 111, or 112 (or Social Science 261, 265, or 262), or consent of the instructor. Not open to students who have received credit for Social Science 466.

367. INTEREST GROUPS. (Omitted 1964-65). (4 q. hrs.)

Analysis of the role and techniques of labor, business, agrarian, ethnic, and other groups in the political process. Emphasis on American groups and political institutions.

Prerequisite: Political Science 110, 111, (or Social Science 265), or consent of the instructor.

369. THE LEGISLATIVE PROCESS. (Omitted 1964-65). (4 q. hrs.)

A comprehensive examination of the institutional structures and function of legislative bodies with emphasis on American examples.

Prerequisite: Political Science 110, 111 (or Social Science 265), or consent of the instructor.

370 (467). AMERICAN FOREIGN POLICY. Spring. (4 q. hrs.)

An intensive analysis of the place of the United States in the State system, of the factors shaping contemporary American external policies, of the conduct of American foreign relations, and of the major problems of implementing American policy decisions.

Prerequisite: Political Science 220, 221, or 222 (or Social Science 468), or consent of the instructor. Not open to students who have received credit for Social Science 467.

451. AMERICAN CONSTITUTIONAL LAW. Spring. (4 q. hrs.)

This course is concerned principally with the important and unique role of the Supreme Court as a policy-making body in American government. Through the consideration of leading decisions of the Court, both past and present, this course attempts to discover the reasoning behind the Court's views in many areas, including freedom of property, the role of the judiciary, presidential powers in an emergency, "equal protection of the laws," coerced confessions, and "states' rights."

Prerequisites: Political Science 110, 111 or History 233, 234, 235 or consent of the instructor. Open to juniors, seniors, and graduates.

465. PUBLIC ADMINISTRATION. (Omitted 1964-65). (4 q. hrs.)

An introduction to the study of governmental administration including an analysis of the rise, significance, and roles of public administration and the public administrator; and of the problems of executive leadership, administrative organization, personnel and fiscal management, administrative legislation and adjudication, and popular control of administration.

Prerequisite: Political Science 100, or 110 and 111, or 112 (or Social Science 261, 265, or 262), or consent of the instructor. Not open to students who have received credit for Social Science 465. Open to juniors, seniors, and graduates.

480. POLITICS OF THE EMERGING NATIONS.

(Omitted 1964-65). (4 q. hrs.)

A comparative survey of the politics and governments of the emerging nations in Africa, Asia, the Middle East, and Latin America.

Prerequisite: Political Science 100 or 110, 111 or consent of the instructor. Open to juniors, seniors, and graduates.

481. LATIN AMERICAN GOVERNMENT AND POLITICS.

Winter. (4 q. hrs.)

A systematic study of the constitutions and formal structure of Latin-American governments; and, an analytical and interpretive examination of the political processes which underlie them.

490. POLITICAL THEORY: ANCIENT AND MEDIEVAL.

(Omitted 1964-65). (4 q. hrs.)

A systematic description and analysis of the origins and evolution of major concepts in Western political thought from the time of Pericles through the Conciliar Movement.

Open to majors in History, Social Science, Political Science, or consent of the instructor. Open to juniors, seniors, and graduates.

491. POLITICAL THEORY: RENAISSANCE AND MODERN.

(Omitted 1964-65). (4 q. hrs.)

A systematic description and analysis of the origins and evolution of major concepts in Western political thought from the time of Niccolo Machiavelli to the French Revolution.

Restricted to majors in History, Social Science, Political Science, or consent of the instructor. Open to juniors, seniors, and graduates.

492. RECENT POLITICAL THEORY. (Omitted 1964-65). (4 q. hrs.)

A systematic description and analysis of the origins and evolution of major concepts in Western political thought from the time of Edmund Burke to the present with primary emphasis upon the development of modern conservatism, liberalism, Marxism, and fascism or national socialism.

Restricted to majors in History, Social Science, Political Science, or consent of the instructor. Open to juniors, seniors, and graduates.

493. LATIN AMERICAN POLITICAL THEORY. Spring. (4 q. hrs.)

A thorough study of Latin-American political thought beginning with its origins in Spain and Portugal, and proceeding from the colonial period and independence, tracing the adaptations and changes successively brought about under "the republics."

550. THE AMERICAN PRESIDENCY. (Omitted 1964-65). (4 q. hrs.)

A description and comparative analysis of the development, powers, and limits of the American presidency designed to contribute to the continued cultural and intellectual development of the mature student with little or no background in the study of Government.

Not open to students who have received credit for Political Science 465 (or Social Science 465). Open only to graduates. May be offered only toward the Group III requirements for the degree, Master of Science in Education.

PSYCHOLOGY

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. Fall and Summer 1965. (4 q. hrs.)

Scope of field; principles applied in testimony and crime detection; employment practices, industrial efficiency and accident prevention; advertising and retail business.

Prerequisite: Psychology 231.

352. ADOLESCENT PSYCHOLOGY. Winter and Spring. (4 q. hrs.)

The psychology of the adolescent in relation to: his family; his friends; the opposite sex; delinquent behavior; growth and development; his attitudes; his interests; and his values.

Prerequisite: Psychology 231.

360. PSYCHOLOGICAL MEASUREMENTS: FUNDAMENTAL PRINCIPLES. Winter; Summer 1965. (4 q. hrs.)

Statistical background of psychological test construction and interpretation; description, administration, interpretation and evaluation of interest, aptitude, intelligence and personality tests.

Prerequisite: Psychology 231.

447. SOCIAL PSYCHOLOGY.

Fall, Winter, Spring; Summer 1965. (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.

450. PSYCHOLOGY OF EXCEPTIONAL CHILDREN.

Spring; Summer 1965. (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. Open to juniors, seniors, and graduates.

451. ABNORMAL PSYCHOLOGY. Fall; Summer 1965. (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. Open to juniors, seniors, and graduates.

452. PSYCHOLOGICAL MEASUREMENTS: PERFORMANCE AND INTELLIGENCE TESTING. Spring. (4 q. hrs.)

Advanced study of individual intelligence tests; practice in administration and interpretation.

Prerequisite: Psychology 231 and Psychology 360. Open to juniors, seniors, and graduates.

455. MENTAL HYGIENE. Winter; Summer 1965. (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. Open to juniors, seniors, and graduates.

RUSSIAN

(See Foreign Languages)

SOCIAL SCIENCE

NOTE: The courses listed as Anthropology, Economics, Political Science, and Sociology are taught in the Department of Social Science.

Social Science 340 is the course in teaching of the social studies, including the social sciences and history.

340. METHODS AND MATERIALS IN THE SOCIAL STUDIES IN THE SECONDARY SCHOOL. Fall, Winter, 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.

SOCIOLOGY

(Taught in the Social Science Department)

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.

Winter and 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.

365. SOCIAL SYSTEMS AND SOCIAL ROLES. Winter. (4 q. hrs.)

A consideration of the nature of individual social roles, social interaction, problems of mental health as related to the social milieu, culture and personality; social theories of C. Cooley, W. I. Thomas, G. H. Mead, S. Freud and selected neo-Freudians are analysed. The social action frame of reference of Talcott Parsons is presented.

Prerequisite: Sociology 271 or consent of the instructor.

366. THE SOCIOLOGY OF RELIGION. Spring. (4 q. hrs.)

The development and function of religious groups and institutions; an analysis of the functional significance of beliefs and rituals of selected systems of religious thought; roles of religious leaders and thinkers; religious attitudes and personality.

Prerequisite: Sociology 271 or consent of the instructor.

368. PUBLIC OPINION AND PROPAGANDA. Fall. (4 q. hrs.)

Analysis of the opinion making process; methods of opinion and attitude manipulation; propaganda techniques and methods of public opinion measurement.

Prerequisite: Sociology 271 or consent of the instructor.

381. THE SOCIOLOGY OF URBAN LIFE. Spring. (4 q. hrs.)

A systematic study of urban structure and organization; urban planning and renewal as related to problems of ecology; growth and development of urban communities.

Prerequisite: Sociology 271 or consent of the instructor.

390. METHODS OF SOCIOLOGICAL INVESTIGATION.

(Omitted 1964-65). (4 q. hrs.)

A consideration of basic methods of sampling, polling, and interviewing. Particular attention is given to the problems associated with forms of questioning; fundamental statistical techniques are presented such as types of errors, measures of dispersion, central value, the normal curve and the binomial distribution.

Restricted to majors and minors in Sociology and Social Science.

452. THE DEVELOPMENT OF SOCIOLOGICAL THOUGHT.

Winter. (4 q. hrs.)

This course treats the growth of social thought from the pre-scientific to the modern empirical approach based on current modes of sociological inquiry. Significant theoretical contributions of outstanding sociologists of the past and present are considered.

Restricted to majors and minors in Sociology and Social Science. Open to juniors, seniors, and graduates.

472. SOCIAL STRATIFICATION. Fall. (4 q. hrs.)

The problems of status, power, differential behavior; social mobility created by class differences in American society.

Prerequisite: Sociology 271 or consent of the instructor. 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.

Winter. (4 q. hrs.)

A survey of the minority groups in the United States; their history, relationship to other groups, and their contributions to American culture; the relationship of the schools to minority groups and to the establishment of better human relations. This course is designed to aid the social studies teacher and the school administrator.

Prerequisite: Sociology 271 or consent of the instructor. 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.

Prerequisite: Sociology 271 or consent of the instructor. Open to juniors, seniors, and graduates.

491. INDIVIDUAL PROBLEMS IN SOCIOLOGY.

Spring. (4 q. hrs.)

Special readings and topics in sociology; substantive evidence of independent scholarship is required.

Open to juniors, seniors, and graduates. Restricted to majors in Sociology and Social Science.

SPANISH

(See Foreign Languages)

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.

230. SPEECH COMPOSITION. Spring and Summer 1966. (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. Fall, Winter, and Summer 1965. (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.

330. INTERVIEW AND CONFERENCE. Spring. (4 q. hrs.)

The selection, organization, and oral presentation of ideas and supporting materials in interview, conference, and interpersonal situations.

Prerequisite: Speech 131.

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.

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.

352. RADIO PRODUCTION DIRECTING. Fall. (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.

470. PSYCHOLOGY OF SPEECH.

Winter and Summer 1966. (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.

Summer 1965. (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.

472. AMERICAN PUBLIC ADDRESS.

Winter; Summer 1965. (4 q. hrs.)

A study of the influence of public speakers on the creation of American ideals and policies.

Open to juniors, seniors, and graduates.

555. RESEARCH IN SPEECH. Fall. (4 q. hrs.)

An introduction to research methods, bibliographical resources, and professional writing in the field of speech. The course has a two-fold purpose: (1) it is designed to be helpful to those who intend to do research, (2) it is also intended for those who are primarily consumers of research, as a guide to its assessment.

Open only to graduates.

560. DELIBERATION OF HUMAN PROBLEMS.

Winter and Summer 1965. (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. Summer 1965. (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.

572. BRITISH PUBLIC ADDRESS. Spring; Summer 1966. (4 q. hrs.)

A study of twelve selected British public speakers with emphasis upon their abilities to utilize the canons of rhetoric to influence given audiences on given occasions.

Open only to graduates.

595. THESIS. (4 q. hrs.)

SPEECH CORRECTION

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.

260. SPEECH PATHOLOGY. Winter and Summer. (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.

451. INTRODUCTION TO CLINICAL PRACTICE IN SPEECH CORRECTION.
Fall. (4 q. hrs.)

Training in specific diagnostic techniques for speech disorders. The students are responsible for the weekly diagnostic out-patient 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 and Summer 1966. (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 and Summer 1965. (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 and Summer 1965. (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.

Every quarter. (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.

THEATRE ARTS

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, Spring and Summer. (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.

240. INTRODUCTION TO THE THEATRE. Spring. (4 q. hrs.)

A general introduction to theatrical and dramatic art. Emphasis is on providing the student with the tools of analysis which will give him insight into the total imaginative process that makes up the art of the theatre.

244. ACTING. Spring. (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.

257. TECHNICAL DIRECTION. Fall. (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 Players' productions

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 experience 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. 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.

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, pro-

gram 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.

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.

358. DESIGN AND HISTORY OF COSTUME. Spring. (4 q. hrs.)

History of Costume from the early Egyptians to the present day. Costume design for theatrical productions.

431. CHILDREN'S DRAMATICS. Fall. (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.

473. THEATRE HISTORY. Fall. (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. 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.

563. HISTORY OF DRAMATIC ART. Fall. (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.)

ZOOLOGY

Zoology 120, 121, and 122 are planned as a general cultural course. They satisfy the general education requirement of a year of laboratory science.

Zoology 110, 111, and 212 are designed for Zoology majors and minors.

110. BASIC GENERAL ZOOLOGY. Fall. (4 q. hrs.)

A survey of the fundamental structures and principles of animal processes. Up-to-date information on protoplasm, cells, tissues, organs, and systems considered. Physiological processes and simple Mendelian inheritance included.

Open only to majors and minors in zoology.

111 (222). INVERTEBRATE ZOOLOGY. Winter. (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.

Prerequisite: Zoology 110 or equivalent. Open only to majors and minors in zoology.

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 1964-65). (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.

212. VERTEBRATE ZOOLOGY. Spring. (4 q. hrs.)

A study of the natural history of vertebrates with emphasis on Midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification.

Prerequisite: Zoology 110 or the equivalent.

214. COMPARATIVE ANATOMY OF VERTEBRATES.

Fall. (4 q. hrs.)

A study of structures and their evolutionary relationships in vertebrates. Based on laboratory work with typical forms.

Prerequisite: Zoology 110, 111 or equivalent.

215 (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.

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 1964-65). (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 or equivalent.

336. GENETICS. Spring. (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: Junior standing or 20 q. hrs. of zoology.

338 (125). ELEMENTARY ENTOMOLOGY. Fall. (4 q. hrs.)

A study of insects which are common in the local environment. Means of recognition and life-history studies are stressed. Insects of fields, woods, and waters are studied as well as those found on various farm crops. Some of the work is done in the field.

Prerequisite: Two courses in biological science. Open only to elementary education majors.

340. METHODS OF TEACHING BIOLOGICAL SCIENCE IN THE HIGH SCHOOL. Winter and Summer. (4 q. hrs.)

The collection and use of materials for demonstration and laboratory experiments are stressed.

Prerequisite: Admission to teacher education and junior standing.

341. PROBLEMS IN ZOOLOGY. Any quarter. (4 q. hrs.)

Designed 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 110, 111, 212 or equivalent.

347. FISHERIES BIOLOGY. Spring. (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 110, 111, 212 or equivalent.

350. GENERAL PHYSIOLOGY. Winter. (4 q. hrs.)

A study of basic principles underlying the functions of protoplasm and organ systems.

Prerequisite: Zoology 110 or the equivalent.

445. CYTOLOGY AND HISTOLOGY. (Omitted 1964-65.) (4 q. hrs.)

Study of microscopic structures and functions of cytoplasmic, nuclear and membrane components of cells and tissues.

Prerequisite: One year of biological science.

449. SPECIAL PROBLEMS IN ZOOLOGY. Any quarter. (4 q. hrs.)

An advanced course for those interested in studying some special problem in the zoology field. The work is done independently with advice of the instructor.

Prerequisite: Two years of zoology and permission of the department head.

450. ANIMAL HISTOLOGY. (Omitted 1964-65). (4 q. hrs.)

A microscopic study of animal tissues and organs and their origins and functions; advanced microscopic techniques.

Prerequisite: Zoology 110, 111, 212 or equivalent. Open to juniors, seniors, and graduates.

451 (446). MICROTECHNIQUE. Fall. (4 q. hrs.)

Methods and practice in the preparation of microscope slides of animal tissues. Some histological studies are included. A suitable collection of slides may be made for later use in teaching.

Prerequisite: Two years of zoology. Open to juniors, seniors, and graduates.

452 (447). ANIMAL BEHAVIOR. (Omitted 1964-65). (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. Open to juniors, seniors, and graduates.

453 (448). ANIMAL ECOLOGY. (Omitted 1964-65). (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 equivalent and permission of the department head. Open to juniors, seniors, and graduates.

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. Primarily for graduates. Open to seniors with permission of the instructor and approval of the Dean of the Graduate School.

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 the Group III requirements for the degree, M.S. in Ed.

551. LOCAL FAUNA. (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 the Group III requirements for the degree, M.S. in Ed.

595. THESIS. (4 q. hrs.)

XII. STATISTICS AND GRADUATES

SUMMARY OF ATTENDANCE

Twelve Months Ending May 29, 1964

SCHOOL YEAR—June 3, 1963, to May 29, 1964.
UNIVERSITY

Full-Time, On Campus		Summer	Fall	Winter	Spring
Seniors:	Men	200	343	347	383
	Women	185	266	267	288
	Total	385	609	614	671
Juniors:	Men	143	474	498	487
	Women	140	333	336	356
	Total	283	807	834	843
Sophomores:	Men	88	491	494	491
	Women	128	402	359	302
	Total	216	893	853	793
Freshmen:	Men	95	645	679	615
	Women	74	562	540	488
	Total	169	1207	1219	1103
Unclassified:	Men	34	13	11	11
	Women	14	6	6	8
	Total	48	19	17	19
Graduates:	Men	209	42	47	57
	Women	56	18	19	26
	Total	265	60	66	83
Total:	Men	769	2008	2076	2044
	Women	597	1587	1527	1468
	Total	1366	3595	3603	3512
Part-Time, On Campus		Summer	Fall	Winter	Spring
Graduates:	Men	49	84	61	70
	Women	34	49	37	44
	Total	83	133	98	114
Undergraduates:	Men	110	54	50	65
	Women	112	65	68	83
	Total	222	119	118	148
Workshops:	Men	61			
	Women	65			
	Total	126			
Total:	Men	220	138	111	135
	Women	211	114	105	127
	Total	431	252	216	262
Total, On Campus					
	Men	989	2146	2187	2179
	Women	808	1701	1632	1595
	Total	1797	3847	3819	3774

		Summer	Fall	Winter	Spring
Full-Time Equivalent (Resident)		1564	3696	3696	3619
Part-Time, Off Campus	Men	10	63	—	55
	Women	28	130	—	159
	Total	38	193	—	214
Total University	Men	999	2209	2187	2234
	Women	836	1831	1632	1754
	Total	1835	4040	3819	3988
Full-Time Equivalent		1577	3760	3696	3683
LABORATORY SCHOOL					
	Boys	127	284	287	284
	Girls	130	261	261	263
	Total	257	545	548	547

Degree Graduates

Master of Science in Education

May, 1963

NAME	POST OFFICE
Anderson, Eulalee, Long	Mattoon
Beno, John Andrew	Charleston
Boals, Mildred	Effingham
Brackney, James Willis	Altamont
Clark, Jo Anne	Delta Junction, Alaska
Culberson, Harley Dale	Pana
Decker, David Melvin	Morrisonville
Drury, Thomas R.	Dupo
Dunlap, George Earle	Hoopeston
Fair, Glen Dale	Charleston
Fleming, Robert Frank	Fairfield
Fritschle, George William	Danville
Gregg, Vergil Vernon	Westfield
Hockman, Dan M.	Vandalia
Hull, James Frederick	Charleston
Hussey, David Lee	Charleston
Kirby, Ronald Francis	Benson
Taylor, James F.	Crete
Walstrom, John A. J.	Charleston
Men	16
Women	3
Total	19

Master of Arts

May, 1963

NAME	POST OFFICE
Rawls, Shirley Nelson	Charleston

Bachelor of Science in Education

May, 1963

NAME	POST OFFICE
Adam, Paul Christian	Kankakee
Adams, Bonnie Marie	Danville
Adams, Harold Stephen	Paris
Agney, Reuben Dean	Tower Hill
Alderson, Joyce Lynn	Decatur
Alderson, Ronald Clifford	Blue Island
Anderson, Elizabeth Joann	Salem
Anderson, Gerald Kent	West York
Anderson, Loren Dean	Blue Island
Armour, John Eldon	Atwater
Arzig, Sandra Kay	Staunton
Atkinson, Charles Lee	Effingham
Augenstein, Bill Leon	Vandalia
Bailey, Jerry R.	Oblong
Baird, Carroll Franklin	Indianola
Baker, Marsha Kaye	Terre Haute, Ind.
Baldwin, Judith Lee	Jacksonville
Bauer, James Edward	Murdock
Baumgarten, Gary A.	Stewardson
Beard, Ronnie Lee	Flora
Bee, Floyd Allen	Charleston
Bell, Carolyn Joyce	Westfield
Bell, Edwin Jay	Metcalf
Bell, Sara Sue	Brocton
Bernardi, Gretchen Westendorf	St. Louis, Mo.
Bieritz, Carolyn Alma	Yorkville
Bingham, Judith Ann	Staunton
Bird, Sandra Virginia	Casey
Blievernicht, David Lincoln	Crete
Boardman, Sharon Lee	Champaign
Boland, James Ryan	Decatur
Boley, Kathryn Carole Askew	Olney
Bomkamp, Judith Cecelia Breen	Tuscola
Bond, Joyce Dale	Robinson
Bookhout, Janice Kay	Salem
Borkowski, Arthur Leonard	Oak Lawn
Bradley, Maxine Louise	Nokomis
Brethorst, Larry Dean	Paxton
Broadway, Sheran Lynn	East Alton
Brockmeier, Donna Mae	Edwardsville
Brown, Nathaniel Michael, Jr.	New Orleans, Louisiana
Browning, Donna Gail Reese	Tuscola
Bush, Philip Robert	Oakland
Caldwell, Suzannah Marie	Albion
Calvert, Carolyn Joyce	Newton
Carroll, Barbara Ann	Arcola
Case, Norman Elroy	Charleston
Caywood, Jerry Dickinson	Le Roy
Chancellor, Cora Rosalee	Greenup
Chapman, Dale D.	Willow Hill
Clark, Barbara Walsh	Aspen, Colorado
Coates, Judith A.	Mattoon
Coe, Nancy M.	Springfield
Coleman, John Park	Ridge Farm
Conrady, Larry Keith	Mt. Carmel
Cooper, Myrna Joann	Neoga
Cox, James William	Tuscola
Crain, Carolyn Joan	Broadlands
Crouse, Gale Kent	Bogota
Curran, Charles James	Mattoon
Dawkins, Charles Warren	Louisville
Debolt, Ronald A.	Peoria
DeMotte, Ada Arlene	Beecher
Dennis, Phillip Walter	Danville
Deshleria, Jayne Lee	Alton
Deyoe, John Stephen	Urbana
Dorney, M. Shannon	Bridgeport
Douglas, Arlene Rae	Springfield
Douglas, Dwight Oliver	Mt. Carmel
Drake, Paula Kay Ferguson	Paris
Durbin, Deloris Jean	St. Elmo
Durham, Robert Eugene	Wood River

Eardley, Arthur LeeNew Douglas
 Easton, Delores LeonaCharleston
 Eells, Richard A.Rossville
 Egger, Mary E.Pekin
 Eggers, Lloyd DeanToledo
 Elder, Janet ElaineSullivan
 Ellison, Harry E.Charleston
 Epperson, Ramon GaryMattoon
 Ermovick, Dorothy AnnPana
 Etwiler, Carol AnnTuscola

Fickes, Dennis JohnMattoon
 Fielding, George L.Milford
 Findley, Sharon E.Paris
 Fitzhenry, Brenda JoyceRankin
 Franklin, Harold EugeneCharleston
 Fryer, Sandra Rae HicksKankakee
 Fulk, Richard DaleMoweaqua
 Fuller, Judith ElaineTuscola
 Fulton, Verlyn KaySullivan

Gardner, Carolyn LaurenceCasey
 Garver, William PhillipKansas
 Gibson, Richard FranklinRamsey
 Goddard, David GlennWindsor
 Goodman, Darlene BaldwinCharleston
 Gorka, Wanda A.Glenview
 Gover, Philip EugeneMattoon
 Gravenhorst, Sandra Sue MascherEffingham
 Green, Shirley MarieSpringfield
 Greeson, David LloydNeoga
 Gregg, Judith IreneMartinsville
 Griffith, Robert GeorgeTuscola
 Grissom, Gary ThomasGreenup
 Gruenewald, Bobbie ElaineDecatur
 Gueldner, Gary L.Charleston
 Gunn, Richard LandonDanville

Haddock, Danny LeroyCasey
 Hahn, Karen LucilleChicago
 Hainley, Leonard LeeMartinsville
 Hall, James BryceHillsboro
 Harper, Ronald TrentBonnie
 Harter, James RonaldPittsfield
 Hastings, Ramona RuthCalumet City
 Hattabaugh, Fred L.Milford
 Havener, Jerald EugeneTaylorville
 Hawkins, James ArthurOlney
 Hay, John MichaelOgden
 Hayden, Jay EdwardGreenup
 Haynes, Audrey JeanDecatur
 Hays, George BurnsRobinson
 Heaney, Edwin DaleCharleston
 Hellrung, James EdwardEast Alton
 Helton, Cynthia JoBrocton
 Helton, Victor DeanCharleston
 Hemann, Ralph JohnNew Douglas
 Henderson, Stephen AlanRobinson
 Herr, Sandra KayePiper City
 Higgins, James EdwardCharleston
 Hilderbrand, Leona RuthClay City
 Hinton, George Franklin, Jr.Nokomis
 Hodge, James LeeSumner

Ingram, Carole WilliamsBrocton

Jennings, James StewartPalestine
 Johnson, Dale E.Elgin
 Johnson, Norma RuthCharleston
 Jones, Alan KeithTower Hill
 Jones, Helen LouiseMt. Zion
 Jones, Joyce AnnOlney

Kahl, Robert EugeneLitchfield
 Kelley, Joanna MarieEast Lynn
 Klotz, Audrey DorleneStaunton
 Kruger, Carole JamesMartinsville
 Kuhl, Marsha BridgesBogota
 Kutz, Harold EugeneOlney

Lamb, Martha LeeParis
 Lanman, William A.Harvey

Larson, Karen EileenMt. Morris
 Leibig, Ronald A.Hillsboro
 Leighty, Leslie HowardBridgeport
 Lewis, Carole BethMarshall
 Lindsey, SuellynCisne
 Love, Ralph DeneRobinson
 Lumsden, Mary LouBethany

MacDonald, Daniel RobertCharleston
 Macey, Christine AnneMarshall
 Mahon, Patricia L.Quincy
 Main, Paul J.Olney
 Major, Ruth EileenTeutopolis
 Martin, Burl RayRobinson
 Maxwell, Mary FerneLongview
 Mayberry, Janet LeeGarrett
 McDonald, Charles RobertArthur
 McFadden, John WallaceDowners Grove
 McGrath, William EdwinTuscola
 McLaughlin, Beverly RoseStewardson
 McMillen, Charles KennethCowden
 McMorris, Donald GeneGreenup
 McVicker, Sharon KayAltamont
 Mefford, Deette YvonnePalestine
 Mehok, Garrett JosephBlue Island
 Metcalf, Winifred KayCharleston
 Millam, Phyllis CaspersonMattoon
 Miller, Danny LeonRobinson
 Miller, Frances DeeBethany
 Miner, LindaRidgway
 Mitchell, Clyde KennethNewton
 Montgomery, Anna LouiseLawrenceville
 Moore, David MichaelOlney
 Morris, Ronald EdwardArcola
 Mullins, Glenn AllenCharleston
 Myers, Gus EdwardWindsor

Neff, Mae ElizabethDanville
 Nelson, Dora JeanDanville
 Nelson, Kenneth AlvinGary, Indiana
 Nevrenchan, MiltonChicago
 Niebrugge, Barbara MarieEffingham
 Ninnis, Sylvia Ann AndersonCaseyville

Oakley, Sandra SueHume
 Olmstead, Eleanor ArleneAltamont
 Osborne, Marilyn RaeRobinson
 Overton, Donald GeneHume
 Ozier, JayneToledo

Peak, Elmer KentonCharleston
 Pellegrini, Donna LeeWilsonville
 Perrin, Richard EugeneTuscola
 Phillips, Aaron W.Sailor Springs
 Phillips, David LorraneWillow Hill
 Potter, Everett WarrenHarvard
 Pound, Estelle LelenLovington
 Price, Larry WayneMattoon
 Primrose, Joseph MueriEdwardsville
 Prince, Carol LeeOblong
 Pruitt, Donna MarieSpringfield

Quinlan, James GrahamRantoul

Reed, Judith AnnChicago Heights
 Reed, Maurice LeeArcola
 Reeves, Janice AnnBurnt Prairie
 Reis, Karen SueWillow Hill
 Rennels, Florence AnnWestfield
 Reynolds, Charlene SueEffingham
 Reynolds, Linda LeeBridgeport
 Richards, Eula PinkstonParkersburg
 Richards, James EarlHoopeston
 Richards, James MarvinCharleston
 Richards, Judith ElaineMattoon
 Rindt, Marilyn DeanDanville
 Roberts, Linda RaeUrbana
 Roberts, William GeneBushton
 Root, Sandra MarieAssumption

St. Pierre, Dean PaulKankakee
 Salem, Terry MichaelVenice

Salmons, Neveta Jean Gillespie
 Salrin, Judith A. Peoria
 Saums, Martha Irene Bridgeport
 Schaefer, Elizabeth Anne Edwardsville
 Schauburger, Caroline Widdersheim Decatur
 Scott, Michael Andrew Charleston
 Scott, Rose Ann Chrisman
 Shadwick, Larry MacPeers Mattoon
 Sherrell, Sandra Jeannine Springfield
 Shoulders, Jane Alice Bridgeport
 Slowinski, Jerome Edward Chicago
 Smith, George Erwin Villa Park
 Smith, Jeanne G. Chicago
 Smith, Robert Lee Charleston
 Smith, Sue Ann Sullivan
 Smith, Thomas Eugene Charleston
 Snyder, Sara Jane Rankin
 Sorensen, Robert Rask Elmwood Park
 Sparks, Lewis Thomas Charleston
 Staley, Sandra Lee Casey
 Stanek, Kay Frances Belleville
 Stanfield, Abraham Lincoln Chrisman
 Stephens, Mary Jane Reiss Effingham
 Stevens, Shirley Ann Charleston
 Stone, George Lawrence Harvey
 Stonecipher, Marilyn Jean Farina
 Strain, Marilyn June Sievers Witt
 Strain, Owen Eugene Effingham
 Sullivan, Kathleen M. Champaign
 Swanstrom, Janice Dale Holstlaw Decatur
 Swikle, Barbara Kay Kankakee
 Swikle, Gary Charles Kankakee
 Taylor, Shirley Joanne Decatur

Thompson, Anna Marie Dalton City
 Thompson, Arthur Stanley Charleston
 Thorp, Linnea Ann Watseka
 Tipler, Larry Glenn El Paso
 Tipsword, Wilma Dell Mattoon
 Tolliver, Jerry L. Louisville
 Trage, Barbara Claire Oak Park
 Trimble, Esther Gale Grant Park

Van Deventer, Roger Dean Assumption

Wayne, Evelyn D. Charleston
 Weber, David Edwin Venice
 Weber, Sharon Bundy Charleston
 Webner, Margaret J. S. Bethany
 Weck, Larry Delno Robinson
 Wenger, John W. Mattoon
 Wheeler, Jenneth Sue Bethany
 Whelton, Mary Elizabeth Decatur
 Wilcoxon, Martin Oscar Danville
 Williams, Carolynne Ann Pana
 Williams, Marolyne Sue Pana
 Williams, Nancy Alyce Tuscola
 Wisner, Bruce Dean Olney
 Wold, Joyce Elayne Earlville
 Wonderlin, Thomas Alan Mattoon
 Wood, Gay Ann Charleston
 Wood, Janice Lee Robinson
 Wood, Richard J. Fairfield
 Woods, Brenda Elaine Willow Hill
 Woolery, Dona Louise Neoga
 Wright, Gareth William Robinson
 Wunderle, Steven Lee Mason City

Young, Connie Jo Charleston
 Young, James Dale Mattoon

Zachow, Mildred Joyce Mattoon
 Zeller, Barton Wallace Olympia Fields
 Zuber, Vincent H. West Liberty

Men 142
 Women 149
 Total 291

Bachelor of Science

May, 1963

NAME	POST OFFICE
Abernathy, James Oren	Robinson
Adkins, Lawrence Richard	Decatur
Arnett, Robert George	Charlinville
Ballinger, Jack Troy	Charleston
Bingaman, Frederick L.	Brownstown
Bissey, George Marion	Clay City
Brunk, Samuel J.	Glenarm
Burford, Carl Ralph	Teutopolis
Collins, John Michaels	Casey
Corte, Phillip Emil	Casey
Craig, Michael Edward	Greenup
Crail, George William	Charleston
David, Charles Michael	Lawrenceville
Davis, Edward Arthur	Charleston
DeMumbrum, Donald James	Aurora
Deters, Kenneth Arthur	Effingham
Esler, Thomas Leroy	Effingham
Finley, Larry L.	Paris
Grabb, Laurence William	Windsor
Hahn, Richard Allen	Urbana
Henderson, Leonard Ray	Casey
Jenkins, James L.	Effingham
Johnson, Roger Lee	Pana
Jones, Ossian R. Keith	Paris
Keith, Allan Hoiles, Jr.	Greenville
Lafferty, Thomas Everett	Charleston
Leden, Richard Allen	Winebago
Leonard, Ray Don	Mattoon
Lind, Stanley L., Jr.	Highland Park
Littleton, Stephen Evert	Mattoon
Martin, Donald L.	Mattoon
Martin, John Kent	River Forest
Mason, Donald Lawrence	Charleston
Mathews, Larry Dean	Mattoon
Matthews, John Philip	Joliet
Milliner, Jerry Lee	Philo
Mockaitis, Vitus Joseph	Georgetown
Musgrave, David Lee	Robinson
Nix, Neal Lawrence	Olney
Norris, Ruth Dallas	Charleston
Okraj, Robert Jerome	Calumet City
Orr, Donald Dean	Dewey
Orr, James Harold, Jr.	Paxton
Ostapowicz, Robert C.	Oak Lawn
Prince, Wayne O.	Charleston
Reynolds, Calvin Clyde	Charleston
Richardson, John E.	Wyoming, Michigan
Ruwe, H. K.	Charleston
Shafer, Jerome Wayne	Mattoon
Sheerer, Patricia Louise	Paxton
Smith, Gordon K.	Mattoon
Smith, Larry Lee	Charleston
Smith, Norman Dean	Danville

Unekis, Joseph Keith	Westville
Voke, Neal D.	Oblong
Waheed, Abdul	Karachi, Pakistan
Walters, David John	Charleston
Webb, James H.	Hoopeston
Whitley, Walter Joseph	Mattoon
Wilson, Darrell R.	Fisher
Young, Richard Douglas	Charleston

Men	59
Women	2
Total	61

Bachelor of Arts**May, 1963**

NAME	POST OFFICE
Alkire, John Albert	Danville
Bowers, Larry Dean	Arcola
Crippin, Larry Glenn	Westville
Grant, Richard Joel	Paris
Guinagh, Barry Joseph	Charleston
Hatton, Raymond Allen	Chicago
McColl, Christine Ellen	Charleston
Millis, Robert Lowell	Martinsville

Men	7
Women	1
Total	8

Master of Science in Education**August, 1963**

NAME	POST OFFICE
Adamson, Alan Duane	Moweaqua
Allen, David Clinton	Pana
Ambler, Ralph Benton	St. Joseph
Ankenbrand, Ralph James	Charleston
Atkinson, Donald Eugene	Charleston
Bogle, Frank William	Arthur
Boland, Richard Brian	Charleston
Buesking, Ralph E.	Charleston
Cralle, Jan Lee	Olney
Davis, Aileen A.	Effingham
Duns, Richard Livingston	Redmon

Eberhart, David Karl	Edwardsville
Ellinger, Richard Rolland	Neoga
Figura, Dennis Joseph	Chicago Heights
Fortman, Terrence Harcourt	Kenney
Frantz, Edythe Una	Lerna
Frantz, Elaine	Grayslake
Frantz, Lorraine	Grayslake
Gardner, James LaRue	Springfield
Greathouse, Dorothy Ann	Mattoon
Grigsby, Donald Linn	Charleston
Guy, Ralph Richard	Mattoon
Haak, Irvin M.	Hutsonville
Harder, James Edward	Altamont
Hardin, Thomas Lewis	Chicago
Hardin, William Richard	Charleston
Howard, Harrell M.	Casey
Hudson, Virgil LeRoy	Gibson City
Isenogle, Richard L.	Mattoon
James, Danny Joe	Charleston
Kelley, Richard L.	Mattoon
Kirkham, James Donald	Evanston
Lamkey, Ernest Richard	Oakland
Lape, Keith Rollin	Mattoon
Madix, Edward E.	Decatur
Manuel, Harold Roger	Granite City
Maulding, Roger Lee	Charleston
Moore, George Bernard	Charleston
Moyes, Paul G.	Olney
Neibch, William R.	Paris
Norsuvan, Jarce	Bangkok, Thailand
Overton, Mary Elizabeth	Hume
Owens, Barbara Hires	Terre Haute, Indiana
Phillips, Robert Leland	Noble
Porter, Jerry Lee	Charleston
Richardson, Gail Lee	Mattoon
Rotter, Joseph Charles	Edwardsville
Rush, C. Dale	Charleston
Seaton, Linda Jane	Martinsville
Shimp, Douglas Eugene	Sullivan
Shoot, John D.	Oakland
Simcox, Loy Morris	Altamont
Slowinski, Jerome Edward	Chicago
Spear, Nate Duane	Olney
Strole, Hallie Eugene	Greenup
Swartz, Phillip Scott	Robinson
Szabo, Joseph	Tovey
Turner, George Augustus	Herrick
Unfried, Hubert A.	Evansville, Indiana
Vice, Mildred Louise	Sullivan
Wallace, Frances Caspers	Effingham
Williams, Melvin Morris	St. Elmo
Woelfer, Wilmer Frederick	Effingham
York, Troyt Button	Charleston
Young, James Dale	Charleston

Men	54
Women	11
Total	65

Bachelor of Science in Education

August, 1963

NAME	POST OFFICE
Anderson, Teddy Eugene	Strasburg
Arnholt, Philip John	Hoopeston
Bailey, Janice Louise	Decatur
Baker, Barbara Bilyeu	Assumption
Baugh, Karol Raymond	Monroe
Beason, Jack M.	Greenwood, Indiana
Bennett, Sherry Lou	Martinsville
Bierman, Phyllis Ann	Wheeler
Bogardus, William Loren	Belvidere
Booker, Janet L.	Paris
Brandt, Mae Barnett	Albion
Brock-Jones, Richard Burl	Vandalia
Brown, F. Dale	Greenup
Burton, John Ward	Mattoon
Butler, Ben Crail	Charleston
Butler, Ronald Eugene	Lawrenceville
Button, Robert Stephen	Greenup
Callahan, Constance Carolyn	Milford
Cawley, LaVina Eileen	Springfield
Cerf, Mary Nancy	Kankakee
Chance, James Eddie	Salem
Chance, Wilmetta Mae Loy	Salem
Chaney, Dwayne Carl	Fairfield
Cheuvront, Diane Marion	Des Plaines
Clark, Wilmer Thomas	Newton
Claypool, Stanley Russell	Casey
Cougill, Roscoe McDaniel	Charleston
Crackel, Elzela Jean	Mason
Creek, Ronald Eugene	Peoria
Crociani, Lawrence Edward	Peoria
Cutts, Anita Claire	Toledo
Darr, Patsy Lou	Xenia
Davis, Jr., Howard Allen	Mattoon
Denham, Ronald Eugene	Windsor
Dickerson, David Lawrence	Moline
Drake, Donald Erick	Champaign
Edgar, Karen Kinsall	Charleston
Ellett, Ronald A.	Sidell
Ellis, Robert Kenton	Charleston
Engel, Bonnie Lou	Stewardson
Ernst, Sue Eileen	Kinmundy
Fidler, Donald R.	Pittsfield
Finney, Bruce Allen	Casey
Fogelsanger, Ardath	Casey
Freeman, Edward Henry	Danville
Freese, George Thomas	Arthur
Funk, Elke Sievertsen	Bement
Gard, Jr., Ivan E.	Charleston
Ginder, Linda Sue	Mattoon
Glosser, Gary Eugene	Greenup
Goddard, Evelyn Rose	Windsor
Goodfellow, John F.	Effingham
Gregory, Judith Wallace	Sullivan
Gunnigle, Sharon Marie	Pana
Hall, Eva Mae	St. Francisville
Hall, Mary Ann	Charleston
Hamilton, William Melvin	Springfield
Hannagan, Gary F.	Penfield
Hannon, Ralph Harold	Shelbyville
Harris, Darrell C.	Edwardsville
Hayes, Frederick Eugene	Charleston
Hedge, Phyllis Kay	Flora
Heidenfeldt, Gail Ardis	Des Plaines
Heise, Jr., William Joseph	Litchfield
Hittmeier, Betty Lay	Litchfield
Hollister, Sarah Margaret	Lawrenceville

Honn, Loren Daniel	Charleston
Hull, Carolyn Jean West	Humboldt
Jacoby, Jr., Arthur Amos	Decatur
James, Mary Eleanor	Effingham
James, Ruth Ann	Browns
Jones, Emily Frances Best	Lerna
Jones, Max Lee	Greenup
Keller, Doris R.	Monmouth
Kelley, Daniel Lawrence	Chicago
Kelsheimer, Donald Robert	Paris
Lambert, Virginia May	Albion
Lockart, Carolyn Specht	Cowden
Lunn, Diane E.	Wooddale
Malinovich, Roseanne	Joliet
Matheny, Donald Allen	Oblong
Maxon, Larry Wilson	Kankakee
McClain, C. Richard	Waverly
Meatte, Jeanette Jourdan	Newton
Miller, Jr., Charles Earl	Stoy
Miller, William Spencer	Lovington
Morris, Karen Lee	Arcola
Newton, Jesse Carl	Oblong
Painter, David Darrell	Venice
Phipps, Thelma Pauline Stoner	Charleston
Planck, Richard Lee	Charleston
Potter, Katherine Bonner	Lawrenceville
Pottorf, Sandra Carson	Arcola
Rafaj, Arleen Frances	Chicago Heights
Repp, John Vernon	Casey
Reynolds, James Jay	Homer
Reynolds, Michael Eugene	Toledo
Richardson, Nadene	Shelbyville
Riebe, Susan Elaine	Charleston
Rohr, Theodore Vincent	Newton
Roll, Shirley D.	St. Elmo
Salmons, Clarence Eugene	Brownstown
Sanders, John Allan	Litchfield
Sanders, Mildred Ann	Indianapolis, Indiana
Schwartz, Sylvia Charleen	Alton
Sherrick, Wilma Marie	Effingham
Shuler, Jack R.	Salem
Smith, Pauline B.	Olney
Smithson, Betty Ann	Paris
Spencer, John Howard	Findlay
Starkweather, Dianna Sue	Robinson
Stokes, Joseph Donald	Ridgefarm
Stracke, Jr., Paul T.	Wood River
Stukey, Virginia L.	Effingham
Taylor, Corene	Champaign
Tipton, Thelma Marie	Oblong
Traub, Terry Gene	Dietrich
Truitt, David Michael	Chicago
Van Dyke, Cecil Gerald	Effingham
Varner, Donald Ray	Loda
Vaupel, Jr., Carl Frank	Kankakee
Volle, Flossie R.	Chestnut
Voyles, Dorothy M.	Effingham
Warnelis, Joseph Dominic	Olney
Watkins, Paula Jo Ann	Newton
Watson, Marietta Jane	Decatur
Weaver, Nina Alice	Rosamond
Weber, Joseph Alfred	Teutopolis
Wellwood, Wilma A.	Blue Mound
White, Robert Doyle	Charleston
Wilhelm, James Phillip	Charleston
Winbrenner, Ronald E.	Charleston
Young, Kay Ann	Carlinville
Zankovitz, Sharon	Joliet

Men	71
Women	63
Total	134

Bachelor of Science**August, 1963**

NAME	POST OFFICE
Bingman, Ronald E.	Carmi
Canaday, Jerome Burke	Urbana
Cearlock, Jerry Lee	Nokomis
Grottinger, Ralph Evan	Newman
Dawkins, Ronald K.	Kankakee
Douglas, Robert Lee	Oblong
Fell, George Edward	Charleston
Gidcumb, James Frederick	Carmi
Gorski, Raymond Norbert	Chicago
Gunnigle, John Robert	Oconee
Hambleton, Larry Gale	Effingham
Harlow, Judy Ruth	Madison
Heiney, III, Elmer Thomas	Dunellen, New Jersey
Helfrich, James F.	Hammond
Higsmith, Ronald Earl	Olney
Holderread, James Edward	Litchfield
Holdner, Preston William	Carmi
Honn, Marvin Duane	Sullivan
Huber, C. Nash	Hillsboro
Huttes, Jerry L.	Pana
Jackson, John Thomas	Charleston
Johnson, David Blaine	Arcola
Jones, Robert Lee	Charleston
Koop, Gene Wendell	Teutopolis
Meyer, Karen Tucker	Belleville
Michael, R. Mark	Sullivan
Miller, Charles Meredith	Danville
Miller, Frederick Leo	Mattoon
Mosby, Larry Wayne	Edwardsville
Phelps, Barry Stephen	Mattoon
Roark, Delwyn Michael	Hoopeston
Root, Charles Brian	Albion
Sanderson, Steven Carl	Urbana
Thacker, Lester L.	Litchfield
Trout, Richard Alan	Mattoon
Weerts, Richard Carl	Hillsboro
Men	33
Women	2
Total	35

Bachelor of Arts**August, 1963**

NAME	POST OFFICE
Boerngen, Lyle Delaine	Effingham
Gates, Larry James	Mattoon
Lamkin, Raymond William	Charleston
Schwartz, David E.	Mattoon
Men	4
Women	0
Total	4

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