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CALENDAR
1925

Fall Quarter
September 7, Monday____________Entrance Examination
September 8, Tuesday____________Registration Day
September 9, Wednesday____________
____________________(8:00 A. M.) Convocation and Classes
October 31, Saturday____________Homecoming Day
November 16 to November 20________Preregistration week
November 23, 24, Monday, Tuesday________Final Exams.
November 24, Tuesday________(5:00 P. M.) Fall Quarter Ends

Winter Quarter
November 30, Monday____________
____________________Entrance Examinations and Registration
December 1, Tuesday (8:00 A. M.) Convocation and Classes
December 18, Friday (5:00 P. M.) Christmas vacation begins

1926
January 4, Monday________(7:00 A. M.) Christmas vacation ends
February 22, to February 26________Preregistration week
March 4, 5, Thursday, Friday________Final Exams.
March 5, Friday____________Winter Quarter ends

Spring Quarter
March 8, Monday________Entrance Examination and Registration
March 9, Tuesday________(8:00 A. M.) Convocation and Classes
April 9, Friday____________Founder's Day
May 16, Sunday____________Junior-Senior Vespers
May 17, to May 21________Preregistration Week
May 19, (M) to May 21 (M)________Final Exams.
May 21, (9:00-9:30 A. M.)________Final Convocation
May 21, Friday____________Class Day
May 22, Saturday____________Alumni Day
May 22, Saturday________Annual Meeting of Board of Trustees
May 23, Sunday____________Baccalaureate Day
May 24, Monday____________Commencement Day

Summer Quarter
May 31, Monday________Entrance Examinations and Registration
June 1, Tuesday________(8:00 A. M.) Convocation and Classes
July 9, Friday________First Special Summer Term Ends
July 12, Monday________Second Special Summer Term Begins
August 2, to August 6________Preregistration Week
August 13, 14, Friday, Saturday________Final Exams.
August 14, Saturday________Summer Quarter and Second Special Summer Term Ends.

Fall Quarter
September 6, Monday________Entrance Examinations
September 7, Tuesday________Registration Day
September 8, Wednesday (8 A. M.) Convocation and Classes
# BOARD OF TRUSTEES

Elected by the Conference

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<td>1924</td>
<td>HAROLD C. BOWMAN,--------------Celina, 1925</td>
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<td>1919</td>
<td>MR. W. W. MORRALL-------------Morrall, 1925</td>
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<td>1899</td>
<td>HON. S. A. HOSKINS-------------Columbus, 1926</td>
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<td>1922</td>
<td>E. C. EDWARDS-----------------Toledo, 1926</td>
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<td>1922</td>
<td>E. E. McCOPPIN----------------Ada, 1926</td>
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<td>1898</td>
<td>REV. D. H. BAILEY, D. D--------Ada, 1927</td>
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<td>1924</td>
<td>DR. A. S. McKITRICK-----------Kenton, 1927</td>
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<td>1922</td>
<td>E. L. MOTTER-------------------Lima, 1927</td>
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<td>1924</td>
<td>REV. B. F. READING, D. D-------Toledo, 1928</td>
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<td>1923</td>
<td>REV. C. C. PEALE, D. D---------Findlay, 1928</td>
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<td>1905</td>
<td>HON. JOHN H. CLARK, LL. B------Marion, 1928</td>
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<td>1924</td>
<td>REV. DAVID F. HELMS, D. D------Lima, 1929</td>
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<td>1918</td>
<td>REV. WILLIAM E. PUTT, D. D------Cincinnati, 1929</td>
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<td>1918</td>
<td>MR. EDGAR J. BROOKHART, LL. B---Celina, 1929</td>
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Elected by the Alumni

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<td>1916</td>
<td>HON. FRANK B. WILLIS, LL. D----Delaware, 1926</td>
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<td>1922</td>
<td>MARY HICKERNELL, A. B---------Ada, 1927</td>
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<td>1923</td>
<td>HON. SIMEON D. FESS, A.M., LLD...Yellow Springs, 1928</td>
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<td>1919</td>
<td>HON. JOHN F. KRAMER, LL. B-----Mansfield, 1929</td>
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<td>1925</td>
<td>HON. JAMES B. RUHL, LL. D------Cleveland, 1930</td>
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At Large, Elected by the Trustees

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<td>1910</td>
<td>JOHN WESLEY HILL, D. D--------New York, N. Y.</td>
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<td>1917</td>
<td>DR. GEORGE FRANKLIN GETTY------Los Angeles, Cal.</td>
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<td>1920</td>
<td>BENJAMIN A. GRAMM, M. A--------Lima, O.</td>
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<td>1924</td>
<td>BISHOP THEODORE S. HENDERSON, D.D. LL.D----Cincinnati Area</td>
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<td>1925</td>
<td>COL. A. E. HUMPHREYS, LL. D----Denver, Col.</td>
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COMMITTEES

OFFICERS OF THE BOARD

S. A. HOSKINS, President.

EDGAR J. BROOKHART, Secretary-Treasurer

Standing Committees


ALUMNI OFFICERS

President-------------------Jay P. Taggart, Cleveland, Ohio
Vice-President--------------Elmer E. McClain, Lima, Ohio
Secretary-Treasurer---------Thomas J. Smull, Ada, Ohic

Executive Committee

J. K. Rockey, R. H. Schoonover, John D. Osmun

Nomination Committee

Granville E. Scott, H. W. Bowersmith, P. R. Marshall

Election Committee

E. Vergon Smith, Elmer Hilty, Mrs. M. L. Snyder
ADMINISTRATIVE OFFICERS
AND FACULTY

ALBERT EDWIN SMITH, D.D., Ph. D. 502 South Johnson
(President on the William W. Edwards Foundation.)
President of Ohio Northern, 1906—
A.B., Ohio Wesleyan University, 1887; Ph. D., 1898; D.D. 1906

DAVID H. BAILEY, B. S., D. D. 206 E. Highland
Vice President and Field Secretary, (1925—)
B. S. Ohio Normal University, 1886; D. D., Ohio Northern, 1906.

THOMAS JEFFERSON SMULL, Archt., C. E., Eng. D. 301 S. Main
Executive Secretary. (1918—)
C. E. Ohio Northern, 1904; Archt., 1906
Graduate student, Lafayette College, 1904-05; Dean of College of Engineering, 1905-1917; Eng. D., Oglethorpe University, 1921.

MARGARET ELEANOR WHITWORTH, B. S. 219 E. Montford
Registrar, (1917—)
B. S. Geneva College, 1894.

GUY LAWTON SMITH, B. S. in Ed. 618 S. Main
Treasurer and Entrance Examiner (1922—)
B. S. in Ed., Ohio Northern, 1921.

HARVEY EVERT HUBER, A. M. 224 N. Gilbert
Professor of Biology, (1913—1917—1919—)
Dean of College of Liberal Arts, (1920—)
A. B., Ohio Northern, 1909; A. M., Yale University, 1912; Graduate student, University of Wisconsin, 1920.

GUY HERBERT ELBIN, C. E. 720 S. Johnson
Acting Dean, College of Engineering, (1924—)
Professor of Civil Engineering, (1919—)
(Acting Dean, 1924-25)

WILLIAM PRICE HENDERSON, A.B., LL. D. 125 S. Gilbert
Professor of Law, (1921—)
Dean of the College of Law, (1921—)
A. B., Ohio Wesleyan University, 1888.
LL. D., Taylor University, 1923.

RUDOLPH HENRY RABE, Ph. B., Ph. C. 316 S. Gilbert
Professor of Pharmacy, (1911—)
Dean of College of Pharmacy, (1917—)
Ph. G., Ohio Northern, 1910; Ph. C., 1911.

FRANK LEWIS BERGER, A. E., B. S. 121 E. Lehr
Professor of Physics, (1911—)
Sub-Freshman Adviser, (1921—)
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

FREDERICK THOMAS KILLEEN 209 S. Johnson
Professor of Voice and Director of A. D. Juilliard School of Music, (1916—)
Graduate of University of Michigan, School of Music, 1905; Assistant in Voice, 1905-1907; Pupil Sig. De Macchi and Harriet Ware, New York City, 1907-1909.
EMMETT ELIJAH LONG, B.C.S.  621 S. Johnson
Bookkeeping and Penmanship. (1907—)
Director of School of Commerce. (1918—)
Student at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

MAE DEMING MCCOPPIN, M. O.  431 N. Gilbert
Professor of Expression. (1887-1901; 1907—)
Director School of Expression. (1887-1902; 1907-1912; 1917—)
B.O., Ohio Normal, 1887; M. O., Ohio Normal, 1888.

JAMES OTTO NEWTON, D.D.S.  514 S. Union
Professor of Physical Education. (1921—)
Director of School of Physical Education. (1921—)
D.D.S., Ohio State, 1904.

LEAH MILDRED BROWN, B. F. A.  516 S. Main
Director of School of Fine Arts. (1923—)
B. F. A., Ohio Northern University, 1915.

RICHARD HOLMES SCHOONOVER, A.M., B.D.  425 S. Main
Professor of Greek and Church History. (1901—)
A. B., Northwestern Ohio Normal School, 1884; A.M., 1887;
A.B., Ohio Wesleyan, 1888; B.D., Drew Theological Seminary, 1889.

A. CLIFFE DEMING, A.M., B.O.  601 S. Main
Professor of Public Speaking, (1901-1902; 1907-1917; 1920—)
Director of School of Expression. (1912-1917)
B.O., Ohio Normal, 1899; A.B., Ohio Normal, 1900; Graduate Emerson School of Oratory, 1903.

LENIX CRAIG SLEESMAN, Ph. G., Ph. C.  723 S. Union
Professor of Chemistry. (1906—)
Ph. G., Ohio Northern, 1905; Ph. C., 1906.

CHILDE HAROLD FREEMAN, B.S., Lit. D.  317 W. University
Professor of Rhetoric and English Literature, (1910—)
B.S., Ohio Normal University, 1901.
Lit. D., Taylor University, 1924.

CARRIE ADEL WILSON, B.E.  534 S. Johnson
Professor of Education, (1914—)
B. E. Ohio Northern, 1908.
Graduate student, College of Education, Ohio State University, 1909-10; Summer of 1917; Chautauqua Summer School, 1922; 1924; 1925.

WALTER DAVID NISWANDER, A.M.  310 E. Lincoln
Professor of History. (1917—)
B.Ph., B.Pd., Ohio Northern, 1914; M. A. Ohio State University, 1917; Graduate student, University of Wisconsin, 1922.
Graduate student, Ohio State University, 1925.

WILLIAM P. LAMALE, Mus. B.,  312 W. Buckeye
Professor of Piano and Organ, (1916-19; 1923—)
*EDWARD CLINTON DARNELL, B. S., A. M.  206 E. Highland  
Professor of Education, (1924—)  
Dean, College of Education, (1924—)  
B.S., Ohio Northern, 1913; A.M., Ohio State University, 1921.

HARRY LEE HAMSHER, Ph. G.  311 S. Johnson  
Professor of Pharmacognosy, (1919—)  
Ph. G., Ohio Northern, 1918.

ETHEL WARREN  724 S. Main  
Assistant Instructor in Piano, (1919—)  
Graduate in Piano, Ohio Northern, 1917; Graduate Student  
Chicago Musical College, 1921.

WALTER GRAY, A. M.  615 S. Union  
Professor of Psychology and Sociology, (1920—)  
B.S. in Ed., Ohio Northern, 1915; A.M., Ohio State University, 1918.

CARRIE WILLIAMS BREWER  620 Union  
Instructor in Violin, (1920—)  
Conservatory of Music, Cincinnati, 1915.

IVOR ST. CLAIR CAMPBELL, M.E., E.E.  112 W. University  
Professor of Mechanical Engineering, (1921—)  
B.S. in M.E., Ohio Northern, 1916; B.S. in E.E., Ohio Northern, 1917; M.E., Ohio Northern, 1918; E.E., Ohio Northern, 1919.

WILFRED ELLSWORTH BINKLEY, B.S., A.B.  624 S. Gillett  
Professor of Political Science and Economics, (1921—)  
B.S., Ohio Northern, 1907; A.B., Antioch, 1910; Graduate Student, Harvard, 1910-11; Graduate Student, Ohio State University, 1923, 1924.

MARTELLE ELLIOTT DAVIS, A.M.  401 S. Johnson  
Professor of Modern Languages, (1921—)  
A.B., Ohio Wesleyan University, 1897; A.M., University of Washington, 1916; Graduate Student, Europe, 1902; Chicago, 1903; University of Washington, 1915-1916; 1916-1917; Summer 1918, 1920-1921.

JOHN THEODORE FAIRCCHILD, Ph. M., C.E.  305 S. Main  
Professor of Mathematics, (1921—)  
A.B., Ohio Northern, 1895; Ph.M., Carnegie Institute, 1902;  
C.E., Ohio Northern, 1904; Graduate Student, University of Chicago, 1921 and 1924.

HERMAN JACOB WEBER, A.B., LL. B.  220 S. Main  
Professor of Law, (1921—)  
A.B., Heidelberg, 1912; LL.B., Western Reserve, 1915.

JESSE RAYMOND HARROD, M. S.  313 N. Main  
Assistant Professor in Chemistry, (1921—)  
B.S. in Education, Ohio Northern, 1918; B.S., Ohio Northern, 1919; M.S., Ohio State University, 1925.

SIG. MICHAEL MAZZULLA, B.S., in Chem. E.  301 E. University  
Director of Varsity Band  
Instructor in Brass and Reed Instruments, (1921—)  
B.S., in Chem. E., Ohio Northern, 1921.
EDWIN VERGON SMITH, A.B., LL.B. 110 W. University
Professor of Law, (1922—)
A.B., Ohio Northern, 1910; LL.B., Ohio Northern, 1914.

JAMES A. WHITTED, Ph.B., A.M., 927 S. Main
Professor of Mathematics, (1923—)
B. Ped., Southwestern College, 1893; Ph.B., Ibid, 1895; A.M.,
Ibid, 1896; Graduate Student, University of Chicago, Summer

ETHEL ELLIOTT 417 S. Johnson
Instructor in Stenography and Typewriting, (1923—)
Wheaton College, 1920-22. Ohio Northern University, 1922-
23. Gregg School of Shorthand, Summer, 1923.

DELORES DEHUS, B. S. in Ed. 425 Union St.
Instructor in Biology, (1923—)
B.S. in Ed., Ohio Northern, 1923.
Graduate Student, Ohio State University, 1924; 1925.

EUNAH JOHNSON, A. B. 714 S. Main
Instructor in Preparatory History and Literature, (1922-
25.)
Assistant Professor of English, (1925—)
A.B., Miami University, 1916.

IRA R. FERRACHE, A. B. 303 S. Union
Instructor in Algebra and Geometry, (1924—)
A.B., Ohio Northern University, 1924; Graduate Student,
Ohio State University, Summer 1924.

STEPHEN A. ARMSTRONG, A.B., LL. B. 614 S. Union
Professor of Law, (1924—)
A. B., University of Michigan.
LL. B. University of Michigan.

VERNON VAN BUREN, 518 S. Union
Professor of Religious Education, (1924—)
B.S., Northwestern University.
B.D., Garrett Biblical Institute.
Graduate Student, University of Chicago.

ALEXANDER RAFFEN WEBB, C. E. 518 S. Union
Professor of Civil Engineering (1924—)
B. S. in C. E., Armour Institute of Technology, 1908; C. E.,
Armour Institute, 1913.

FORREST W. BEYER, B. S. in E. E. 808 S. Main
Professor of Electrical Engineering, (1924—)
B. S. in E. E., Ohio Northern, 1923.

ROBERT CRAUSAZ, A. B. 120 S. Gilbert
Instructor in Modern Languages, (1924—)
A.B., Ohio Northern University, 1924.

BENJAMIN RODERICK, B. S. 209 S. Johnson
Assistant Professor of Physical Education, (1924—)
B. S., Columbia University, 1923.

CLAUDE W. PETTIT, A.B., LL.B.
Professor of Law, (1925—)
A.B., Ohio State University, 1911.
LL.B., Western Reserve University, 1916.

Aside from Deans and Directors, names are arranged ac-
cording to seniority. *Inadvertently misplaced.
KENNETH KEMPER GAUVEY, Ph. G. 111 W. Ballard
Assistant in Pharmacy, (1924—)
Ph. G., Ohio Northern, 1924.

---------- (To be supplied.)----------
Professor of Electrical Engineering, (1925—)

---------- (To be supplied.)----------
Professor of Pharmacy, (1925—)

---------- (To be supplied.)----------
Critic Teacher, College of Education, (1925—)

---------- (To be supplied.)----------
Critic Teacher, School of Music, (1925—)

CHARLES GRACE 808 S. Main
Assistant in Electrical Laboratory.

B. P. KOHLMEIER, MERLE ALLEN, HOWARD KENNEDY,
REED WILLIAMS, HELEN KELLY
Assistants in Chemical Laboratory.

OLIN PFEIFFER, JOHN HICKMAN
Assistants in Drawing.

FLO L. CRONBAUGH, G. Sten. 516 S. Simon
Notary Public.
Stenographer and Office Secretary.
G. Sten. Ohio Northern, 1911.

FRANK B. OVERHOLT, A. B., B. D.
General Secretary Y. M. C. A.
A. B. Otterbein College, 1915.
B. D. Dayton Seminary, 1918

MARY ELIZA THOMAS, B. S. 424 S. Gilbert
Librarian.
B. S., Ohio Normal University, 1894.

MARY BLANCHE McCOPPIN 212 W. Buckeye
Assistant Librarian.

MARY L. HERRING 109 W. Lehr
Dean of Women

WILLIAM OBERLIN, 305 E. Lehr
Custodian of Grounds and Buildings.

ALVA E. ROCKWELL, Ped. B., 321 W. University
Farm Superintendent
Ped. B., Ohio Normal University, 1899.

PAUL RUNSER, 417 S. Gilbert
Power Plant Operator.
FACULTY COMMITTEES

ADMINISTRATION: Dr. Smith (Chairman), Dr. Bailey, Dr. Smull, Mrs. Whitworth.

ARTIST-LECTURE: Dr. Smull (Chairman), Professors Killeen, Fairchild, Deming, Webb, Mazzulla.

ASSIGNMENT and SUPERVISION: The Deans and Directors, Registrar, Chairman.

ATHLETICS: Professors Sleesman (Chairman), Killeen, Elbin, Long, Niswander, Dr. Newton.

ENTRANCE: Deans and Directors, Entrance Examiner, Chairman.

FINANCE: Dr. Smith (Chairman), Dr. Smull, Treasurer Smith, Mrs. Whitworth.

GRADUATION and DEGREES: Deans and Directors, Registrar (Chairman).

INTER-COLLEGIATE DEBATE: Professor Binkley (Chairman), Dr. Freeman, Professors Weber, Deming, Gray.

LIBRARY: Professor Gray (Chairman), Dr. Freeman, Professors Weber, Fairchild, Miss Thomas.

LIFE SERVICE: Professors Van Buren (Chairman), Davis, Wilson, McCoppin, Secretary Y. M. C. A.

LITERARY SOCIETIES: Professor Schoonover (Chairman), Professors Campbell, Binkley, Berger, Darnell.

LOAN FUND: Dr. Smith (Chairman), Dr. Smull, Treasurer Smith.

PHYSICAL EDUCATION: Dr. Newton (Chairman), Professors Deming, Sleesman, Wilson, Treasurer Smith.

SCHEDULE: The Deans and Directors, Executive Secretary (Chairman).

STUDENT HOME: Professor Davis (Chairman), Professors Wilson, Elliott, Campbell, Lamale, Secretary Y. M. C. A.

STUDENT PUBLICATION: Dr. Freeman (Chairman), Professors Smith, Whitted, Niswander, Pettit, Dr. Smull.

STUDENT SOCIAL ORGANIZATIONS: Professor Weber (Chairman), Professors Hamsher, Elbin, Harrod, Binkley, Raabe, Smith.

STUDENT WELFARE: Professor Harrod (Chairman), Professors Wilson, Ferbrache, Gray, Dehus, Van Buren.

SUMMER SCHOOL: Dean Darnell (Chairman), Dr. Smull, Dr. Freeman, Professors Huber, Berger.
Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburgh, Fort Wayne & Chicago Division of the Pennsylvania Railroad, fifteen miles east of Lima and twenty-eight miles west of Upper Sandusky. Railroad connection is made at Lima with the Baltimore and Ohio and the Lake Erie & Western division of the New York Central Lines, and the Erie Railroad. Connection is also made at Upper Sandusky with the Hocking Valley; at Forest, sixteen miles east, with the Big Four; and at Dunkirk, ten miles east, with the Ohio Central Lines.

Lying on the great watershed separating the waters tributary to the Ohio and the Mississippi from those flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months. The paved streets, hot and cold water plants, electric light and natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements.

Historical Sketch

On August 14, 1871, in a three story brick building erected on the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Solomon Lehr at its head was formally opened “for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools.”
The name was changed to Ohio Normal University and a charter from the State issued on May 19, 1885, the policy and management remaining the same as before.

The school was under private control from the outset until September, 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school. Under the new administration, as fast as existing contracts permitted, the departments, heretofore semi-independent, were reorganized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof. The new charter was dated May 24, 1898.

In 1904 the institution was re-named Ohio Northern University, and the charter amended December 31, 1907.

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge. The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for postgraduate instruction.

**Academic Standing**

Ohio Northern University is a standard institution. It holds membership in the Association of American Colleges and the Ohio College Association. These points are of vital importance to the prospective student who is planning his life work.

**Ohio Northern's Mission**

The Ohio Northern University invites to her privileges all worthy young men and women, especially the self-dependent, who are ambitious for a liberal education. Her entire regime has in view the creation and maintenance of an atmosphere inspirational and congenial to plucky young people.
of both sexes whose lot in life has taught them the worth of hard labor and close economy. The atmosphere is thoroughly democratic, a leading characteristic being the spirit of good fellowship existing among the students, a majority of whom are relying mainly on their own pluck and push. Thorough and practical instruction in all the departments is provided at a minimum expense to the student.

**Unique Features**

The school year is forty-eight weeks in length, divided into four terms, designated, respectively, Fall, Winter, Spring and Summer Quarters. Credit is based on the number of hours of class work done in each subject. Early in the Fall Quarter the Freshman, Sophomore, Junior and Senior classes are formally organized under the direction of a member of the faculty. Eligibility to the various classes is based upon number of credit hours and quality points. See student classification under various colleges. The student must present a certificate from the registrar.

Students enter at the beginning of any quarter (except in Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work done. On satisfactorily completing the required number of hours in the selected curriculum, the appropriate degree is granted, the diploma bearing the date of Commencement Day of the year in which the work is finished.

**General Directions**

Any one intending to enter the University and desiring to arrange matters beforehand will address, "The University, Ada, Ohio."

A satisfactory assignment to classes can best be made at the beginning of the Fall Quarter; however, students are admitted at the opening of any term.

The applicant for a degree, coming from another college, is required to spend at least thirty-six weeks in residence. On arrival the newcomer is expected to report at once
at the University office to receive needed information regarding lodging places and boarding houses, also obtain a card of matriculation and arrange his work.

Request for Credits

To insure prompt attention, reports for credits, certificates of graduation, class standing, recommendations, etc., should be accompanied by a stamped self-addressed envelope.

Each student is entitled to one copy of his credits; $1.00 is charged for each additional copy.

EQUIPMENT

Location and Buildings

The Campus lies in a resident portion of the village, a few blocks south of the Pennsylvania Station.

On the campus stands four memorial buildings: On the south side, the Dukes Memorial with commodious classrooms, offices and laboratories, devoted to science, mathematics and engineering; in the center, the Lehr Memorial, in which are located the executive offices, the Y. M. and Y. W. C. A. rooms, the library and reading rooms, the apartments of the School of Commerce and a magnificent auditorium for chapel and other public meetings; to the north, the Hill Memorial, devoted to language, history, philosophy and education; in this building are the mechanical and civil laboratories and the attractive halls of the Franklin and Philomathean literary societies.

In the northeast angle of the campus is located Brown Memorial, fitted and equipped for gymnasium and used as an assembly hall for social functions. The University Cafeteria is also located in this building.

Pharmacy Hall, in the northwest angle, especially arranged and equipped for the college of Pharmacy, contains also the spacious assembly room of the Adelphian literary society.

Just outside, southwest of the quadrangle, is Music Hall with assembly room, offices and private practice rooms.

An experimental Greenhouse of ample size has been erected recently.

A well equipped Power Plant of modern design, including a large, well-lighted experimental laboratory for both Electrical and Mechanical students.

A splendid building dedicated to the use of The Warren G. Harding College of Law. It contains five class rooms together with a library, study room, court room, and offices.
Laboratories and Museum

The Biological Laboratories, located on the second floor of Dukes Memorial, are well lighted and equipped with water, gas and electricity. The department makes use of a lantern to illustrate lectures and other phases of the work. In the laboratories is found an ample supply of reagents, stains and glassware, also oil-immersion lens, dissecting microscopes, camera lucida, micrometer eye-pieces, a large rotary microtome, hand microtome, paraffin bath, microscopic slides, models, charts, and preserved materials for study—enough material and apparatus to do modern work in the courses offered.

The green house before mentioned offers facilities for many phases of class work and laboratory practice in Biology, Horticulture and Pharmaceutical Botany. An aquarium also furnishes much material for study.

The University possesses a modern X-ray machine, of the type used for all kinds of biological and hospital X-ray work. This piece of apparatus is especially valuable to pre-medical students and others in the science department.

Dr. A. S. McKittrick, the donor, is an alumnus of the institution, and also a member of the Board of Trustees.

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and alternating and direct current. In the general chemical laboratory are one hundred and twelve lockers with first-class outfits, including all apparatus necessary for thorough individual work. A modern equipped volumetric laboratory with individual lockers has been installed recently. The physical laboratory has ample accommodation for more than one hundred and fifty students, with apparatus for experimentation both in preparatory and college sophomore physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern apparatus and desk arrangements; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "Specimen room" is an interesting exhibit of many of the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like. On the first floor a well-lighted microscopical labora-
tory is supplied with an outfit of compound microscopes, ac-
cessories and appliances for special work in pharmaceutical
microtechnique.

Civil, Mechanical, Chemical and Electrical Laboratories
are described under the caption, "College of Engineering."

The Museum contains numerous specimens and collec-
tions for illustrating geology and the biological sciences. In
the geological alcove are found many of the common miner-
als and ores, many rare ones, meteorites, plants and anima-
fossils representing several of the chief orders of geological
importance, the shells and skeletons of many living molluscs
and vertebrates. The zoological alcove exhibits about 200
birds, representing one or both sexes of nearly all of those
common to this region, many kinds of snakes, and several
hundred specimens, of the order of invertebrates preserved
in jars. For illustrations in anatomy a human skeleton and
structural models of various organs are at hand.

Through good will and generosity there has come into
possession of Ohio Northern a private collection of rare and
valuable geological specimens, the result of years of enthu-
siastic study and research on the part of the donor, Mr. E. R.
Webber, of Kenton, Ohio.

Library

In the disastrous fire of 1913 the University lost its li-
brary. In its stead there is being established by purchase
and gift a new and better one, in apartments built for the
purpose, on the second floor of Lehr Memorial. Here in spa-
cious, well-lighted quarters have been provided a reading
room accommodating one hundred and fifty students, and a
stack room with capacity for 60,000 volumes. To the south,
on the same floor, is located the above mentioned University
Museum.

The University makes definite provisions for the build-
ing up of the library, but, since books are costly and any-
thing like an adequate equipment means a large investment
of money, all the friends of the institution are earnestly in-
vited to assist by making donations of up-to-date books and
by generously contributing funds. The departments of his-
tory, literature, sociology, economics and philosophy espe-
cially suffered from the fire. Any contribution of libraries
and single volumes practically serviceable in these and the
other fields of learning will be gratefully received and ac-
nowledged. Those desiring to make donations and not
knowing just what would meet the need, kindly communicate
with the heads of departments concerning the matter. A sum of $3000 is set aside annually by the University to augment contributions.

Athletic Field

Within a block and a half of the campus, lie the Athletic Grounds, owned and controlled by the University, on whose generous area the Baseball Diamonds, the Football Gridirons, the Running Track, and the Lawn Tennis Courts are located.

University Farm

The University possesses ninety acres of land within a block and a half of the campus. This is being held for future expansion of the University. During the past year the Athletic Field was nearly tripled in area by accession from this tract.

President’s Home

By action of the Board of Trustees, a desirable property, a square from the campus, has been purchased, as a residence for the President of the University.

STUDENT SOCIETIES AND ACTIVITIES

Literary Societies. Three Literary Societies, chartered, and meeting in furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian.

Under the supervision of the societies, clubs are organized each quarter for practice in debate, extempore speaking, and parliamentary law.

The Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. A certain per cent of the Student Activity fee is appropriated to the maintenance of forensic work. Debaters are selected and assisted in their training by a faculty committee.

Christian Associations. The Young Men’s and Young Women’s Christian Associations have enthusiastic organizations in the University and wield a most wholesome influence on the lives and habits of the students.

The Young Women’s Christian Association has a membership including about ninety percent of all the young women in attendance at the school.
A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classes are organized under efficient teachers.

Both Y. M. C. A. and Y. W. C. A. Bible Study classes and religious meetings are open respectively to all men and women enrolled in the University.

The Student Volunteers for Foreign Missions, and for Christian Life Service in the homeland, meet every Tuesday evening in the Y. W. rooms at six o'clock, to study texts written on vital problems of the day in both home and foreign fields, or hear addresses from leaders in various lines of Christian work.

Moral and Religious Culture

Much attention is given to awakening and fostering an aspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the West Ohio Conference of the Methodist Episcopal Church and is denominational in its ownership and control, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings and Bible classes.

The department of Philosophy and Religious Education mentioned elsewhere gives opportunity to those who wish to take up the study of religious problems to fit themselves for life's work.

Musical Organizations

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

Girl's Glee Club. This club is organized to learn the best in choral works written for female voices, and to give concerts each year.

Orchestra. A large orchestra is organized each year to
take up standard works of the great composers, and to play at the concerts of the Choral Society.

Band. A splendid band is maintained, affording an opportunity for practice to students playing brass or reed instruments. A beginner’s section is maintained throughout the year.

Publications

The “Annual” is a sumptuous serio-comic volume published by each out-going class, and is always awaited with eagerness and treasured as a souvenir of college days.

“The Northern Review” is the college paper. It is published during the regular college year by the students of the University.

Athletics

College teams in baseball, football, basketball and track athletics are maintained. Intra-mural sports are also encouraged, and directors provided.

The department of Athletics is managed by a Board of Directors, comprised of the Faculty Committee on Athletics (appointed by the President of the University), the Athletic Director, and a student member of each college sport; the student members being elected by the Athletic Association, a student organization, of which every regular student of the University is a member.

Ohio Northern became a member of “Ohio Conference,” better known as the “Big Six” of Ohio, on October 13, 1916.

A fee of $2.00 per quarter is charged for use of gymnasium including locker and bath. Upon payment of tuition, the student receives a ticket of admission to all intercollegiate athletic events.

Lectures and Concerts

An excellent series of lectures and concerts is given each year. The best talent, both in the lecture field and musical world is brought before the student body.

Technical and Social Organizations

The following technical organizations have regular meetings.

- The Ohio Northern Mathematical Society.
- The American Institute of Electrical Engineers.
- The American Association of Engineers.
- The American Society of Mechanical Engineers.
- The Chemical Engineering Society.
- The Pharmaceutical Association.
The Law Association, the Educational Association, the Commercial Club, State Clubs, and the Pre-medical Association also have their regular meetings. Topics pertaining to the several departments are discussed, and addresses are given by people prominent in their respective lines of work.

The International Club has for its object the promotion of international good-will and universal brotherhood by uniting the students of all nationalities attending the Ohio Northern University; and under its welfare department to aid foreign students on their arrival and in whatever way possible while in the country. The club meets the first and third Sunday afternoons of each school month. Foreign students contemplating attending Ohio Northern University should notify Professor M. E. Davis of time of their arrival.

Honor Societies

Alpha Phi Gamma. Students who have shown ability in Journalism as evidenced by meritorious work on the student publications are eligible for membership.

Theta Alpha Phi. A national honorary dramatic organization to which students showing promise of histrionic ability are eligible.

Beta Phi Alpha. A national intercollegiate cooperative organization to foster the publication of college annuals.

Honor Students

Seniors of very high academic rating pursuing three and four year courses in the Colleges of Pharmacy, Law, Liberal Arts, Education and Engineering may be selected by the faculties of these colleges as honor students. The number selected from each college shall not exceed four. The selection is made at the beginning of the Winter Quarter. The list of honor students is published in the register of graduates in the general catalogue.

Assemblies

Convocations are held each school day except Monday, from 8:00 to 8:30 a.m. The aim is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several departments to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the departments of Music and Expression. Attendance is compulsory. One-fifth credit hour demerit for each absence above five.

At the public functions of Commencement week, members of the faculty and of the graduating class wear academic costumes in keeping with their degrees. The University colors are orange and black.
Room, Board and Home Comforts

In order to insure good wholesome food and plenty of it at the very least possible cost to the student, the University has a large, well equipped Cafeteria in the Brown Building. This is very much more than “an eating place.” With beautiful furnishings and home comforts, this is truly a happy campus “Community center.” It is open to the public.

Good board in private homes, $3.50 to $4.50 per week.
Meal tickets at restaurants, $4.50 to $5.00 per week.
Ada is strictly a school town. The citizens throw open their homes to the students. They have long been noted for their hospitality. Since a majority of the families are engaged in rooming students, the competition is sharp and prices are low. Rooms vary from $1.50 to $2.50 per week according to location and appointments.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the University. Some schools advertise free tuition, but it will be found that entrance fees with them amount to more than tuition fees here, a fact not to be overlooked by those selecting a school thorough, yet less expensive.

All fees such as Matriculation, Registration, Library, Athletic, Lecture Course, Artist Recitals, Student Publication, Y. M. C. A., Y. W. C. A., Debating Association, etc., are included in tuition charges except a small maintenance fee in laboratory and field work, also a locker fee in Physical Education.

Tuition Rates

In the department of Liberal Arts, Education and Commerce, tuition rates are as follows:

For one quarter, (12 weeks), in advance $40.00
For two quarters, in advance $79.00
For three quarters, in advance $118.00

In the College of Engineering:

For one quarter, (12 weeks), in advance $42.50
For two quarters, in advance $84.00
For three quarters, in advance $125.00

In the Warren G. Harding College of Law:

For one quarter, (12 weeks), in advance $50.00
For two quarters, in advance $99.00
For three quarters, in advance $148.00

In the College of Pharmacy:

Tuition and Laboratory fee for 36 weeks, in advance $135.00
In the A. D. Juilliard School of Music, School of Expression, and School of Fine Arts:

Tuition rates in detail given in the description of the respective departments.

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

The tuition rates for the summer quarter in the College of Education are $30.00 for the 12 weeks, if paid in advance for full quarter, or $16.00 for 6 weeks.

**Laboratory Fees**

Fees to cover cost of chemicals and other materials used in the laboratories are charged each term as follows:

- Preparatory Physics, $2.50;
- College Physics, $3.00;
- Biology, Botany and Zoology, each $2.50;
- Preparatory Physiology, $1.00;
- College Physiology, $5.00;
- Preparatory Botany, $1.00;
- Horticulture, $2.50;
- Agriculture, $1.50;
- Pharmacognosy I and II, $2.50;
- all others $4.00;
- Pharmaceutical Technique, $7.00;
- Pharmacy, (except IV) $10.00 each;
- Plane Surveying, Field Engineering, Railroad Engineering, each, $2.50;
- Mechanical Engineering, $3.00;
- Electrical, $4.00;
- Electrical IX, $7.00;
- Electric Power Plant, $1.00 per credit hour.
- Machine shop, $3.00;
- Testing of Materials, $3.00;
- Gymnasium (including locker fee), $2.00;
- Breakage Fee, $5.00 (subject to refund).

**NOTE:** Chemistry I, II, III, a fee of $4.00 per quarter is charged to cover rental of returnable apparatus, and cost of a group of ten reagents provided for each desk. These reagents will be replenished as needed without further cost. No part of this fee is refunded.

In addition to the above fee a deposit of $5.00 is required at the beginning of the course in exchange for a purchase card. From this card is then deducted the cost of non-returnable equipment which is supplied to each desk. This equipment then becomes the personal property of the student. Further deduction is made from the card for any breakage of the returnable apparatus in the desk, also for side table supplies which are charged for pro rata, and for any further purchase the student may see fit to make.

If at the end of the course the deposit has not been entirely used, the unused part will be refunded. On the other hand, if the deposit is exhausted before the end of the course, another deposit of $5.00 will be required.

Other Chemistry courses: A fee of $5 per quarter is charged to cover rental and cost of side shelf supplies. No part
of this fee is refunded. In addition to this a deposit of $5.00 as noted above is required, and from it is taken the cost of breakage of returnable material supplied to the desks, and of all supplies other than those provided for the side table.

Special Fees—Bookkeeping and Stenography

A fee of $4.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $7.00. A fee of $10 is charged for use of posting machine and calculator per quarter. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

Graduation Fees

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is 5.00 for paper, and $7.00 for parchment.

Refunding

In case of withdrawal from college, or change of course, within two days of registration, $1.00 will be charged. After two days, refunds will be made on the following basis: Before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of six weeks, 40%; after the sixth week no refund of fees will be made. No tuition or fees will be refunded to students who are "dropped from the rolls." Receipts are not transferable.

Failure to Preregister

Students failing to preregister will be penalized $1.00 upon their next registration unless more than two quarters intervene. This does not apply to new registrants.

AID TO STUDENTS

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $100 a year. An applicant must have been in attendance at least one quarter.
Scholarships. The University has received through generous donors six scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipient of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one term before receiving aid. The scholarships are as follows.

1. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.
2. The James E. and Caroline Purvis Scholarship by James S. Purvis, Bremen, O.
4. The Alice Hyson Scholarship, by Cordelia Hyson Fairchild, Ada, Ohio.
5. The Pleasant Hill Society of the Roundhead Circuit of the Methodist Episcopal Church.

The Stambaugh Scholarship of $100 per year, by Mrs. Avanell Stambaugh of Ada, Ohio.

Prizes. The Henry Solomon Lehr prizes of $15.00 and $10.00, awarded to winners in an annual Oratorical Contest among the three Literary Societies.

Dr. George W. Crile offers $15.00 and $10.00 prizes annually to the members of the Adelphian Literary Society winning honors in Oratory.

The Jennie Bowman prizes of $15.00 and $10.00 awarded annually to the members of the Franklin Literary Society winning honors in Oratory.

Hon. Homer A. Ramey, '16, Toledo, Ohio, offers $15.00 and $10.00 prizes annually to the members of the Philomathean Literary Society winning honors in Oratory.

Mr. George F. Getty, '79, offers $15 and $10 prizes annually to members of the Philomathean Literary Society winning honors in debate.

Hon. S. A. Hoskins, Columbus, O., offers $15.00 and $10.00 prizes to the members of the Franklin Literary Society winning honors in debate.

The Alpha Phi Gamma short story prizes of $15.00 and $10.00.

Mr. G. Frederick Pfeiffer of Akron, Ohio, gives $25.00 a year to the engineer making the most quality points.
Mrs. Caroline Ames of Ada, Ohio, gives $25.00 a year for five years for winners of the college song contest.

Mrs. Avanell Stambaugh of Ada, Ohio, gives $20 a year for five years for winners in the song contest.

Work. We strongly recommend that every student anticipating a course of study in our institution, make final arrangements to finance at least one quarter's expenses before entering school. This will afford him or her an opportunity to come in personal touch with the employers of our city and also provide ample time to get properly started in his or her school work.

ADMISSION AND ENTRANCE

Only men and women of good moral character are admitted to the University. Students submitting transcripts from other schools must furnish evidence of honorable dismissal from the same.

Graduates of first grade high schools, approved academies or preparatory schools, who present fifteen certified and properly distributed units will be admitted to any of the colleges of the University.

The acceptance of work from schools of lower rank will be determined by the entrance committee. (See individual College Section for proper distribution of units.)

Entrance examinations will be given the first day of each quarter to those who make advanced application for the same. (See Calendar for dates.)

Any student who has done work before entering the University for which he has not been properly certified, may receive credit for the same by examination with the consent of the Dean. This examination must be taken within two weeks after matriculation.

Mature students not working for a degree may be admitted to the University providing they present their reasons for desiring this kind of work and show that they are qualified to pursue the subjects desired. Under no circumstances can such students become candidates for a degree. They are classed as "Special Students."

The official forms for certificates of entrance which may be had on application to the entrance examiner, should be used in all cases, in order to insure the presentation of necessary information.

The credited statement of entrance credits which should be sent by the Principal of the school directly to the University, must be in Registrar's office ten days prior to the opening of the quarter to avoid delay in registration.
GENERAL INFORMATION

Only a provisional registration will be made with absence of these credits. If they are not forth coming within three weeks, the student will be suspended from classes until entrance credits are in the hands of the University Entrance Examiner.

REGISTRATION

The registration days for each quarter are indicated in the Calendar (see page 5). Failure to register on these days will subject the delinquent to the following “Cuts for Class Absence.” One-fifth (1-5) credit hour for each subject each day first week, and two credit hours for each week’s absence thereafter.

The first duty of the new student is to matriculate.

After matriculation, (and during preregistration week thereafter) the student is given a registration card, upon presentation of an entrance permit, which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the registration card. The student then presents the registration card to the Treasurer of the University, paying the required fees, and is given a receipt which becomes a ticket of admission to the classes named thereon.

The Deans and Directors will be in their offices from 8:30 A. M. to 5 P. M. on Monday and Tuesday of the first week of each quarter to arrange the work of new students.

DISCIPLINE

The opportunities and advantages of the University are offered to all sincerely desiring to develop the best in themselves, and aiming at a broad culture and a thorough preparation for useful service.

Self-government is made the keynote in discipline. All are treated as ladies and gentlemen until they prove themselves otherwise. Incorrigible and morally corrupt persons are summarily dismissed from the institution. Every possible help is offered in the formation of right habits, but those who cannot govern themselves are not wanted.

Regular attendance upon class work, prompt response to duty, and thoroughness in all assigned tasks are insisted on, not more for their bearing on scholarship than for their effect upon conduct and life.

The following rules on absence from class exercises are strictly enforced:

Each student is expected to attend every session of the classes in which he is enrolled. The student should bear in
mind that absence from classes lessens the value of the work done as well as lowers the term grades. It is obvious however that absences are unavoidable at times, hence the student is permitted twelve class cuts each quarter. It is assumed that the total number of absences in any course shall not exceed the number of credit hours of that course. Instructors are required to keep a record of all absences and report them to the Registrar as a part of the term record. The instructor has no authority to grant excuse for absence.

No class absences are excused above twelve except those incurred by students granted permission by the Registrar in advance to represent the University in some public collegiate event.

Students who are absent from classes more than five consecutive school days for reasons unavoidable, must interview their Dean and make application for reinstatement to classes. The number of hours that the student will be permitted to carry during the remainder of the quarter will depend upon the character and nature of the work done prior to the incurred absence. A written statement explaining the absence must be filed with the Dean.

Absences due to late registration, except for reasons noted above, will be charged from the regular date of registration up to the time of actual entrance upon class work.

Absence during the two days preceding or the two days following a holiday shall count double.

Tardiness may or may not count as an absence. This is optional with the instructor. If the student is tardy he should learn from the instructor whether or not it counts as an absence.

Five absences are allowed from chapel attendance, after which the rule becomes effective. Term excuses from chapel are at the discretion of the President and must be procured during the first week of the quarter.

Students habitually absent or tardy, without excuse, may be dropped by the Dean upon the recommendation of the instructor in whose class the irregularity occurs.

Unexcused absences reduce the college credits one-fifth of an hour for each absence.

Probation and Dismissal

Students who do not earn at least .25 quality points per hour during the quarter are probationed, or dismissed, at the discretion of the Dean of the college in which the student is registered. Students on probation must earn .5 quality point or more per hour to be eligible for registration the following
quarter. Students may be probationed, or dismissed, for moral delinquencies.

Students on probation for any cause shall not represent, in a public manner, the University, their class, or any University organization in any extra-curriculum activity.

To be eligible for the office of president or vice-president of the sophomore, junior and senior class the candidate must have a scholarship rating of two quality points per hour.

All students will be received and dismissed at the discretion of the President and Committee on Discipline. This committee comprises four members of the faculty and three students, namely, President of Senior Class, President of Pan Hellenic Council and Editor of Northern Review.

Any student affiliating himself or herself with any organization not having Faculty or Trustee sanction will be summarily dismissed.

Dropping or Changing a Course

In case a student desires to drop or change a course, it must be done within seven days after registration in any quarter, and with the consent of his dean or director and professors concerned.

MARKS AND EXAMINATIONS

The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

Grade Marks. Ex., excellent; G., good; Av., average; P., passing; Cn., conditioned; F., failure.

Cn., means that the grade has been withheld because the work of the course has not been completed.

F., means that the student receives no credit whatever for the course, and it must be taken again.

Ex., means that “a student has grasped the subject of a course and, by thinking about it and reacting upon it, has made it his own; it represents industry and thoroughness, as well as natural ability and individual insight.”

G., means that “a student has intelligently fulfilled the requirements for a course, but without showing decided ability and individual insight in reacting upon the subject so as to call it entirely his own.”

Av., means “fair work, either steady work of a mediocre quality, or work of a higher quality which is uneven, irregular or fragmentary.

P., means that the student’s work is “barely passing.”

All grades of Cn., must be removed by examination dur-
ing the next quarter of residence. Otherwise the grade becomes F.

All subjects in which a grade of F, is made must be taken again the first quarter in which the subject is given after the grade was made.

Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held as indicated in the calendar.

Points are based on the credit marks, as follows: Each hour of Ex., counts three points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn., 0 point; of F., 0 point.

A student making marks of “F” or “Cn” in more than one-half of his assigned work for any quarter will be denied future registration except he first petition the faculty and gain their consent to future registration.

DEGREES

The work of the university is entirely undergraduate.

In order to graduate in any course the student must have one quality point for every credit hour.

The Bachelor’s degree is given in all of the 186 hour courses of the University, except Law (140 hours).

A diploma is given in the 2-year course in Education, Commerce, Pharmacy, Music, Expression and Physical Education.

Certificates are issued in one year courses in the School of Commerce and Expression.

ORGANIZATION

1. The College of Liberal Arts.
2. The College of Education.
3. The College of Engineering.
5. The College of Pharmacy.
6. The A. D. Juilliard School of Music.
7. The School of Commerce.
8. The School of Expression.
9. The School of Physical Education.
10. The School of Fine Arts.

Faculty Meetings

General faculty meetings are held on Tuesday of the second and seventh week of each quarter. Time, 4:00 p.m.

Departmental faculty meetings are held on Tuesday of the fourth and ninth weeks of each quarter. Time 4:00 p.m.

President’s Conferences, with Deans and Directors are held on Tuesday of the second, sixth, and tenth weeks of each quarter. Time, 12:00 M.
ADMISSION TO COLLEGE OF LIBERAL ARTS

Candidates of good moral character may apply for admission upon the following plans:

1. By certificate. Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. These certificates must be made out and signed by the proper official of the school from which the applicant comes, and show in detail (1) the text book used in each subject, (2) the amount of work completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing the University Entrance Examiner. The entrance certificate should reach the Registrar’s office at least ten days before the time when student expects to enter. Candidates for admission are strongly urged to attend to this matter as early as possible.

2. By Examination. Candidates who are not graduates of first grade high schools or academies and are therefore deficient in some of the units for admission may be admitted upon examination. Applicants must notify the University Entrance Examiner in advance so that arrangements may be made to hold examinations on first day of registration.

3. On Advanced Standing. An applicant from another college, seeking for advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant’s preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college.

Advance credit will be given for more than 135 quarter hours (90 semester hours), exclusive of gymnasium.

4. As Special Student. Mature persons without special preparation not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consul-
tation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as Special Students.

ENTRANCE REQUIREMENTS

Fifteen units are required for unconditional entrance to the college. Students with fourteen units are admitted on condition that the deficient unit be made up during the first four quarters of residence. No student is admitted to Freshman rank with less than fourteen units. The deficient unit may be removed by examination, or by substituting certain freshman collegiate courses. If the student presents fifteen acceptable units for entrance but is deficient in certain of the prescribed units, the deficiencies as far as possible shall be made up as part of the regular work of the freshman year. Deficiencies in first year algebra and plane geometry must be made up outside of the college schedule. The Summer Quarter offers the student a splendid opportunity for removing deficiencies in entrance.

Distribution of Entrance Units

The fifteen units required for unconditional entrance must be distributed as indicated below.

1. The following 9 units are prescribed for all:
   - English, 3
   - Foreign language, 2 (which must be in one subject)
   - Mathematics, 2, (Algebra and Geometry)
   - History, 1
   - Science, 1

2. At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject:
   - English, 4
   - Greek, 3
   - Latin, 4
   - French, 3
   - German, 4
   - Spanish, 3
   - History and Civics, 4
   - Mathematics, 3
   - Physics, 1
   - Chemistry, 1
   - Phys. Geog., 1
   - Botany, 1
   - Zoology, 1
   - Physiology, 1
   - Agriculture, 1
   - General Science, 1
3. Not more than two units may be presented from the following subjects:

- Mechanical Drawing, 1
- Freehand Drawing, 1
- Domestic Science, 1
- Stenography (if a full unit) 1
- Music, 1
- Manual Training or Shop Work, 1
- Commercial Law, 1
- Commercial Geography, 1
- Astronomy, ½
- Psychology, ½
- Bible, ½
- Sociology, ½
- Economics, ½

4. The University Entrance Examiner, consulting with the department concerned, may consider the acceptance of:

5. The certified statement of entrance credits must be in the University Entrance Examiner’s office ten days prior to opening of quarter to avoid delay in registration. The student will be subject to suspension from classes if entrance credits are not in the office of the University Entrance Examiner within three weeks after registration.

Excess Entrance Credits

Candidates who present more than sixteen units may, at the option of the Entrance Examiner, receive advanced credit for certain courses on the basis of eight quarter hours for one high school unit. Credit in foreign language may be obtained only when student offers for entrance more than four units of foreign language. Applicants for excess credit must show exceptional ability in college courses during the first two quarters of residence and the language must be continued in college. The credit must be secured not later than the third quarter of residence in the University. Student must take an examination on the subject for which credit is desired.

Advisers

On his admission to college rank each student is placed in charge of an adviser. The adviser, a member of the faculty, is appointed by the Dean of the College.

The duty of the adviser is to counsel the student in regard to the planning of courses, the selection of studies, and to aid him in the problems of his college life and work.

This adviser retains oversight over the student assigned to him, until the student has finished 90 quarter hours of work. After completing 90 quarter hours the student should elect the department in which he desires to complete his major work, and the professor in charge of that department then becomes his adviser.
The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

Biology  Modern Languages
Chemistry  Philosophy and Religious Education
Education  Physical Education
English  Physics
Greek  Political Science and Economics
History  Psychology and Sociology
Latin  Mathematics

From the courses offered in the departments named above, schedules are arranged, consisting of prescribed and elective courses leading to the degrees of A. B. and B. S.

To aid the student in planning major and minor courses, the following grouping is set forth as being suggestive only.

DIVISION A

Group I.
Major: Bible and Christian Religion
Minors: Psychology, Philosophy

Group II.
Major: Economics and Sociology
Minors: Political Science, History, Psychology, Biology

DIVISION B

Group IX.
Major: Biology
Minors: Chemistry, Physics, Sociology

Group X.
Major: Chemistry
Minors: Physics, Biology, Mathematics

Group XI.
Major: Mathematics
Minors: Physics, Astronomy

Group XII.
Major: Physics
Minors: Chemistry, Mathematics
PRESCRIBED COURSES

Certain courses are required of all students. In the first two years a more or less definite schedule of subjects is followed with a limited number of electives. The courses of the last two years are largely elective thus permitting the student to make such selections as will fit him for his life work. Credits for the number of hours indicated are required of all candidates for degrees.

Bible, nine hours; English, eighteen hours; History, nine hours; Physical Education, six hours, scheduled first six quarters of residence; Political Science, nine hours; Psychology, nine hours; Science, physical or biological, or both, two one year courses aggregating not less than twenty hours; Sociology, nine hours.

The student must present at least four years credit in foreign language, including high school and college. At least one year of this credit, fifteen hours, must be for work completed in the college. Students entering with two units in the same language are required to complete two years of work, at least twenty-four hours, in the college. In case no foreign language is presented the entrance requirement may be met, without loss of credit, by the election of Latin during the freshmen year. Mathematics, fourteen hours, may be taken as an alternative for the nine hours of language last required in the course of study.

Courses Open to Freshmen

Accounting 1, 2, 3.
Botany 1, 2, 3.
Chemistry 1, 2, 3.
Economics 10, 11, 12.
English 1, 2, 2a, 21, 22.
French 1-7 (as prepared).
German 1-7 (as prepared).

Greek 1, 2, 3.
History 1, 2, 3; 13, 14, 15.
Latin 1-10 (as prepared).
Mathematics 1a, 1b, 1c; 1, 2, 3.
Physics 12.
Zoology 1, 2, 3.
Physical Education.

Schedule of Prescribed Courses

The following is the schedule of the prescribed courses arranged by years and quarters (Fall, Winter, Spring).

First Year

English 1, 2, 2a or 22.
Science, (Chemistry, Botany or Zoology).

History 1, 2, 3.
Foreign Language.

Second Year

English 3, 23, 16, or English 10, 11, 12.
Political Science 1, 2, 3.

Science, (Physics or Biological Science).
Psychology 1, 2, 3.
Third Year
Sociology 1, 2, 3.
Bible 1, 2, 3.

Fourth Year
Courses elective. By continuing in residence during the Summer quarters the entire college course may be completed in three years. Many of the Summer quarter courses are electives.

Majors and Minors
The candidate for a degree must complete in a logical sequence a major of not less than 27 quarter-hours and a minor of not less than 18 quarter-hours, to be selected from a group in one division; and an orderly sequence of at least 15 quarter hours in the other division (this constitutes the second minor). In addition to the required courses and the major and minor courses, the student may select, with advice, enough free electives from either or both divisions to bring total up to 180 quarter-hours.

First year course in Foreign Languages, English 1, 2 and 2a and History 1, 2 and 3 may not be counted toward a major.

GENERAL REGULATIONS
1. The credit value of a course is expressed in hours, an hour of credit being given for the satisfactory completion of work requiring one class exercise a week for one quarter. It is equivalent to two-thirds of a semester-hour.

2. The student may not register for more than sixteen or seventeen hours of work unless he has received a credit of G. or better in all work of the preceding quarter. If the previous record of a student shows that he is able, his dean may grant extra hours, an honor course, provided the student petitions the faculty committee and gains their consent.

3. No student will receive credit for a subject taken in a class in which he has not been duly registered.

4. The student is held responsible for the work scheduled on the registration card. No course may be dropped or changed except by consent of the Dean and the instructors concerned. Withdrawal from a course without permission shall be checked as a failure in the course.
5. All courses that are conditioned or failed must be successfully completed according to the rules in general section of catalogue.

6. Any student wishing to withdraw from the College must notify the Dean and Registrar of his intentions. Failure to do this will jeopardize the standing of the student.

7. No student may be a candidate for a degree who has not been in residence at least three quarters.

8. Midterm examinations are held at the discretion of each instructor. Final examinations are held during the last week of each quarter as indicated in the calendar. Unexcused absence from any regular examination shall be construed as a failure.

9. No course in which a student has received a grade of P is accepted toward a major.

10. Study the absence rule in general section of catalogue. The student is expected to report to the Dean if absent from classes more than five consecutive school days. Failure to report at once will involve the one-fifth hour penalty for each class absence.

11. The student is expected to familiarize himself with the regulations concerning probation and dismissal as stated in the general section of the catalogue.

12. Preregistration not only consists in procuring a registration card from the registration secretary, but also completion of the student’s schedule by the Dean on the same day the card is procured. Violation of this rule imposes the penalty for late registration.

Classification of Students

Freshman. Graduation from a first grade high school.

Sophomore. Completion of 45 quarter hours with at least 45 quality points.

Junior. Completion of 90 quarter hours with at least 90 quality points.

Senior. Completion of 135 quarter hours with at least 135 quality points.
Honor Students

Seniors of the College of Liberal Arts who have maintained a very high academic rating may be selected by the faculty of this college as honor students. The announcement of the person selected is made at the beginning of the Winter Quarter.

Conditions of Graduation

As a condition of graduation, a student must complete 186 hours (including six hours of physical education), this being the equivalent of fifteen class exercises a week for twelve quarters. The student must have a rating of at least one quality point for each credit hour.

Students of unusual ability may, with the consent of the faculty of the College of Liberal Arts, complete their work in eleven quarters. Applicants for this privilege must have an average of 2.5 quality points per hour.

Diplomas are awarded at the commencement exercises, which are held but once a year, at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected, as far as possible, to be present at the commencement exercises. Those whose work, beyond question, will be finished by the close of the Summer Quarter are entitled to all of the privileges of the graduating class, but the diplomas are not issued until the requirements are fully met. In order to have a seat and part in the class organization, credentials must be obtained from the Registrar.

PRE-PROFESSIONAL COURSES

Pre-Medical Course

Medical Colleges of first rank demand as minimum requirements for admission that the candidate shall have completed a four-year high school or preparatory course with at least 15 acceptable units of credit, and the first two years, or equivalent, of a college course which stresses the basal sciences upon which the study of medicine rests.

A total of not less than 90 quarter hours (60 semester hours), exclusive of physical education, are required. Altho
90 credit hours of satisfactory work may admit the student to the study of medicine, yet it is highly recommended by both the faculty of Ohio Northern University and the Medical College faculties that the college work should include three years or 135 quarter-hours (90 semester hours).

The pre-medical student may begin the work during the Summer Quarter. However, it is much more desirable that the work be started with the Fall Quarter. The collegiate courses which are required of pre-medical students are represented in the following table:

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
<td>English 2a or 22</td>
</tr>
<tr>
<td>French or German</td>
<td>French or German</td>
<td>French or German</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Chemistry 2</td>
<td>Chemistry 3</td>
</tr>
<tr>
<td>Zoology 1</td>
<td>Zoology 2</td>
<td>Zoology 3</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>French or German</td>
<td>French or German</td>
<td>French or German</td>
</tr>
<tr>
<td>Biology 6</td>
<td>Biology 13</td>
<td>Biology 15</td>
</tr>
<tr>
<td>Chemistry 7</td>
<td>Chemistry 9</td>
<td>Chemistry 13</td>
</tr>
<tr>
<td>Physics 9</td>
<td>Physics 11</td>
<td></td>
</tr>
<tr>
<td>Psychology 1</td>
<td>Psychology 2</td>
<td></td>
</tr>
</tbody>
</table>

Students who expect to enter Medical Colleges that require Latin for admission should plan to complete two units (Latin Grammar and Caesar) while in the high school, or in Ohio Northern, in addition to the above courses. Suggested elective subjects are: English, history, sociology, political science, mathematics, philosophy.

**Arts-Medicine Combination Courses**

Upon the completion of nine quarters of work in the College of Liberal Arts, the student may be granted a leave of absence for the senior year, and receive the Bachelor of Science degree upon the successful completion of the first year of work in the medical school. This means a saving of at least one year of time. Pre-medical students are urged to give favorable consideration to the combination course and received both the B. S. degree from this institution and the professional degree from the medical school.
The following regulations obtain:

1. At least 140 quarter-hours, exclusive of physical education are required, which must include the regular prescribed courses for the Bachelor's degree.

2. At least 90 quarter-hours must be completed in this institution.

3. The student must maintain a high standard of scholarship in order that the first year of medicine may apply as senior work.

4. The student is subject to the regulations, as far as they admit, of the College of Liberal Arts until graduation.

5. The medical work must be done in an A class medical school.

6. Certificates of the completion, with high grade, of the first year's work in the medical school.

Pre-Dental Course

Dental schools are requiring one year of collegiate work, known as a pre-dental year, consisting of at least 45 quarter-hours (30 semester hours), in addition to the completion of 15 units of high school work. By agreement these schools insist that in these hours should be included at least 9 quarter-hours of college chemistry, 9 quarter-hours of zoology and 9 quarter-hours of college English. Unless the student has offered one unit of high school physics as entrance, an equivalent of college physics must also be taken. Additional hours to complete the schedule may be taken as indicated in the pre-dental course following:

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
<td>English 2a or 22</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Chemistry 2</td>
<td>Chemistry 3</td>
</tr>
<tr>
<td>Biology 1 or</td>
<td>Biology 2 or</td>
<td>Biology 3 or</td>
</tr>
<tr>
<td>Biology 6</td>
<td>Biology 13</td>
<td>Biology 18</td>
</tr>
<tr>
<td>Physics 9</td>
<td>Physics 10</td>
<td>Physics 11</td>
</tr>
</tbody>
</table>

The courses in college physics are optional, if student enters with one unit of high school physics. In case the courses in physics are not required an option is given on a year's work in one of the following: Psychology 1, 2, 3; Economics 1, 2, 3; History 1, 2, 3. The student is permitted to carry 15 to 17 hours per week.
Pre-Commerce Course

The Pre-Commerce Course outlined is designed to meet the requirements of colleges and universities that provide commerce courses leading to degrees. It provides a basis for the more specialized courses that are to follow in the third and fourth years, giving an introduction to those specialized courses that train for leadership in business. Students will do well to select the institution in which they expect to complete their commerce work so that their pre-commerce studies may properly coalesce with those of the institution selected.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
<td>English 2a or 22</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td>Mathematics 2</td>
<td>History 15 or</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
<td>Mathematics 3</td>
</tr>
<tr>
<td>Economics 10</td>
<td>Economics 11</td>
<td>Modern Language</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Economics 12</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 3</td>
<td>English 23</td>
<td>English 12 or 16</td>
</tr>
<tr>
<td>Zoology 1 or</td>
<td>Zoology 2 or</td>
<td>Zoology 3 or</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Chemistry 2</td>
<td>Chemistry 3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Psychology 1 or</td>
<td>Psychology 2 or</td>
<td>Accounting 3</td>
</tr>
<tr>
<td>Accounting 1</td>
<td>Accounting 2</td>
<td>Economics 3</td>
</tr>
<tr>
<td>Economics 1</td>
<td>Economics 2</td>
<td></td>
</tr>
</tbody>
</table>

If chemistry is elected instead of biology, one of the other courses must be omitted in the second year.

Pre-Agriculture Course

The University offers only those courses in which it has ample laboratory facilities for thorough teaching. For this reason the College of Liberal Arts offers accredited instruction only for the first two years of a four year course, paralleling in these two years the curriculum of leading state agricultural colleges. Students are advised to complete their last two years in a state University, which, by reason of superior technical facilities for specialized courses, is enabled to serve the student more advantageously.
COLLEGE OF LIBERAL ARTS

FIRST YEAR

Fall Quarter
Chemistry 1
English 1
Mathematics 1
Botany 1

Winter Quarter
Chemistry 2
English 2
Mechanical Drawing 1
Botany 2

Spring Quarter
Chemistry 3
English 2a or 22
Physics 12
Botany 3

SECOND YEAR

Fall Quarter
Zoology 1
Economics 1
Modern Language
Horticulture 1
Elective

Winter Quarter
Zoology 2
Economics 2
Modern Language
Horticulture 2
Elective

Spring Quarter
Zoology 3
Economics 3
Modern Language
Horticulture 3
Elective

Liberal Arts Courses and Vocations

Four pre-professional courses have been given in outline. Others could be given. It is important to bear in mind that there are three fairly distinct functions of the College of Liberal Arts:

1. Preparatory: Taking up the work where the high school left off and furnishing the student with academic tools through the use of which he may dig further into the fields of knowledge.

2. Cultural: The developing of the art of fine living and the interpretation of what life means.

3. Vocational: The accumulation of knowledge and skill that will aid the student not only to earn a living but render a service to the world.

The courses in this college may be so grouped and correlated that the student may prepare for the life work indicated not only in the courses outlined above but also in nursing, public health, teaching, ministry, social and public service, law, journalism, engineering, business, and other fields.

Hour Schedules

NOTE: Unless otherwise indicated five hour courses meet daily, three hour courses meet on Monday, Wednesday and Friday, and two hour courses meet on Tuesday and Thursday. As far as possible the hour schedule will be maintained as indicated under courses.
DESCRIPTION OF COURSES

DEPARTMENT OF BIOLOGY

DEAN HUBER AND MISS DEHUS

1. General Zoology I (Fall, Summer) 3 Hrs.
2. General Zoology II (Winter) 3 Hrs.
3. General Zoology III (Spring) 3 Hrs.

These three courses are introductory to a study of the more important principles, problems and phenomena evidenced by the animal world. Type forms are studied as a basis for illustrating the principles. Discussion of the problems of life, protoplasm and the cell; the organism, its structure and functions; types of animals; reproduction; genetics; adaptations; evolution. Recitation two hours; laboratory three hours. Section 1, M. W. F., 9:30-11:30; Section 2, T. Th., 1:00-3:00; F., 2:00.

6. Comparative Vertebrate Anatomy (Fall) 5 Hrs.
A comparative study of the anatomy of fishes and amphibians. Careful dissections are made of the different systems and relationships noted. Recitations two hours, laboratory six hours. T. Th., 8:30-11:30 and other hours to be arranged.

13. Mammalian Anatomy and Physiology (Winter) 5 Hrs.
A thorough dissecting of a typical mammal. This course is designed especially for pre-medical students and follows Comparative Anatomy. Time schedule same as Course 6.

18. Vertebrate Embryology (Spring) 5 Hrs.
This course is fundamentally important to students who expect to teach zoology, study medicine, or from a cultural standpoint wish to know something of the origin and development of the human body. Laboratory work is confined largely to the chick, with occasional reference to the pig. Prerequisites: General Zoology 1, 2, 3. Time schedule same as for Course 6.

7. Botany I (Fall) 4 Hrs.
8. Botany II (Winter) 4 Hrs.
9. Botany III (Spring) 4 Hrs.
The courses in Botany constitute a year’s work. A major portion of the time is devoted to the consideration of the physiological processes of plants; the remainder of the year’s work involves a study of the structure, development and evolution of plants. Sect. 1, M. W. F., 1:00-3:00. Sect. 2, T. Th. F., 3:00-5:00.

10. Systematic Botany (Summer) 3 Hrs.
A systematic study of the local flora. Especially designed for teachers and agricultural students. Six to eight hours field work and laboratory per week. T. Th., 1:00-5:00.

11. Dendrology (Spring) 3 Hrs.
A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local flora, in both the winter and summer conditions. Lectures upon structure, classification, uses and distribution. Th., or Sat., 7:00-12:00.

12. Histological Technique and Biological Methods. 3 Hrs.
Lecture and class work two hours, laboratory six to eight hours. Hours to be arranged. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing ma-
terial for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Prerequisites, courses 1, 2, 3, 13, 7, 8 and 9, or equivalent.

14. Principles of Horticulture I (Fall)  
15. Principles of Horticulture II (Winter)  
3 Hrs.
3 Hrs.
The principles underlying plant growth and factors of environment as they are related to orchard, garden, greenhouse and nursery practice are studied. Methods of propagation are taken up in detail.

16. Principles of Horticulture III (Spring)  
3 Hrs.
A brief discussion of the history of heredity, evolution and plant improvement is followed by a study of the modification of plants under cultivation through variation and mutation. Lectures and laboratory.

It is desirable that the study of these courses be either preceded by, or taken concurrently with either biology or botany. T. Th., 8:30-11:30.

17. Heredity (Summer)  
3 Hrs.
An introductory course given to the study of heredity in plants and animals. Lectures, lantern slides and demonstrations are designed to aid in the interpretation of the fundamental laws and processes basic to inheritance. The relation of heredity and eugenics to sociological problems is emphasized. Prerequisites: Zoology 1, 2, 3 or Botany 1, 2, 3. M., W., F., 7:00.

DEPARTMENT OF CHEMISTRY

PROFESSORS SLEESMAN, HARROD, FERBRACHE

1. General Chemistry (Fall, Summer)  
5 Hrs.
Fall Quarter, recitations, M. W. F., 8:30; 9:30 and 10:30. Summer Quarter, recitations, M. W. F., 8:30. Laboratory for Arts, Education and Engineering students T. Th., 8:30-11:30 or 1:00-4:00. Laboratory for Pharmacy students M. W., 1:00-4:00. During the Summer Quarter all laboratory work is scheduled on T. Th.

2. General Chemistry (Winter, Summer)  
5 Hrs.
Winter Quarter, recitations and laboratory same as for Fall. Summer Quarter, recitations, M. W. F., 9:30; laboratory, T. Th.

3. Elementary Qualitative Analysis (Spring, Summer)  
5 Hrs.
Spring Quarter, schedules same as for Fall. Summer quarter, recitations, M. W. F., 10:30; laboratory, T. Th.

The first two courses consist of a careful study of the fundamental laws of chemistry, special attention being given to behavior of gases, solutions, ionization, equilibrium, molecular weights, colloids, and calculations. The principles involved are applied to the study of the common non-metallic elements. The third course is an integral part of a year's work and is given to the study of qualitative analysis, based upon the principles of mass action, ionization, solubility and chemical equilibrium. A brief study is made of the common metallic elements. Three hours lecture and quiz, six hours laboratory.
4. Quantitative Analysis I (Fall) 5 Hrs.
5. Quantitative Analysis II (Winter) 5 Hrs.
6. Quantitative Analysis III (Spring) 5 Hrs.

Courses emphasizing the underlying fundamental principles of quantitative analysis. Accurate determination of the percentage composition of compounds and mixtures by gravimetric analysis, and the calibration of apparatus and the making of volumetric determinations. Study of processes of acidimetry and alkaliometry; oxidation and reduction; iodimetry and special analytical methods, water analysis, coal and coke, lime- stone, cement, iron and steel and other analyses can be arranged for. Prerequisites: Chemistry 1, 2 and 3. Lectures, T. Th., 2:00; laboratory, M. W. F., 2:00-4:00.

7. Organic Chemistry I (Fall) 5 Hrs.
8. Organic Chemistry II (Winter) 5 Hrs.
9. Organic Chemistry III (Spring) 5 Hrs.

These courses constitute a fundamental study of the carbon compounds. Beginning with the simplest hydrocarbons by means of typical reactions the other series of compounds are logically and progressively developed. Careful attention is given at each step to group structure, group relationship, group properties, nomenclature and isomerism. Lecture and quiz. M. W. F., 1:00; laboratory, T. Th., 1:00-4:00.

10. Industrial Organic Chemistry (Spring) 5 Hrs.

A course designed to acquaint the student with the application of organic compounds and analytical methods as applied to the industries. Prerequisite: Organic Chemistry. Lectures, M. W. F., 8:30; laboratory, T. Th., 8:30-10:30.

11. Qualitative Analysis (Fall) 5 Hrs.

A course designed to give the student a thorough training in laboratory manipulation as well as a knowledge of the principal chemical laws and reactions needed for the identification of the common elements and their compounds. Theories of solution, pressure, depression, equilibrium, ionization and other processes are emphasized. The analysis of at least twelve complex unknowns is made by each student. Prerequisite: Quantitative Analysis. Lectures, T. Th., 7:00; laboratory, M. W. F., 7:00-9:30.

13. Physical Chemistry (Spring) 5 Hrs.

An introductory course in physical chemistry, purposing to give the student a thorough review of the fundamental principles of chemistry and prepare him for the more extensive courses in physical and biochemistry. Special attention given to the kinetic theory, valence, atomic structure, osmosis, equilib- rium, electrical conductivity, electromotive force, hydrogen electrode, and colloids. Three hours lecture and quiz, six hours laboratory. Prerequisites: Organic Chemistry and Quantitative Analysis. Lectures, M. W. F., 3:00; laboratory, T. Th., 3:00-5:00.

14. Inorganic Industrial Chemistry (Summer) 4 Hrs.

Lecture and discussion four hours a week. Prerequisite: Chemistry 3.
The courses in Education are listed under the College of Education in another section of this catalogue. Students in the College of Liberal Arts who expect to teach in high schools may elect sufficient educational courses to meet the requirements for a four-year high school provisional certificate, without examination, and at the same time meet the requirements for graduation with the Bachelor of Arts degree. The State Department of Public Instruction demands that the professional courses shall total at least 36 quarter hours of which twenty-seven are specified as follows:

- General psychology
- Educational psychology
- History of Education
- Principles of teaching
- Special Methods
- School administration and management
- Observation of teaching and practice teaching

The additional hours, not prescribed above, to make the thirty-six, shall be in the general field of education. They may be elected from the following subjects:

- Educational or rural sociology
- Educational measurements
- Economics
- Ethics
- Philosophy
- Logic

Additional hours in the specified group may also be counted in the total requirement.

In Ohio the high school certificate is valid for the majors and minors indicated on the certificate. A major consists of not less than 27 credit hours and a minor of not less than 15 credit hours of college work above the high school units prerequisite for these majors and minors. The high school prerequisites are listed as follows: English (including public speaking), 3; history (including political science), 2; home economics, 1; manual training (including vocational industrial work), 1; commercial subjects, 2; mathematics, 2; French, 2; German, 2; Greek, 2; Spanish, 2; Latin, 4; social sciences (including economics, sociology, community civics, occupations), 1; Biological science (including physiology, botany, zoology, agriculture and general science), 1; physical science (including physics, chemistry and general science), 2; earth science (including geology, physiography and general science), 1.
1. **Composition (Fall, Spring)** 3 Hrs.
2. **Composition (Winter)** 3 Hrs.
2a. **Composition (Spring)** 3 Hrs.

These three courses constitute a year of work for Freshmen. A thorough drill in the mechanics of written English. Exposition and argumentation; description and narration. Considerable attention is given to the study of the structure of the short story. Daily themes. Students registered in the Colleges of Liberal Arts and Education who show a high degree of proficiency in English, may elect English 22 in the place of Composition 2a. Fall and Winter Quarters, M. W. F., 8:30; 9:30; 10:30; 2:00; 3:00. Spring Quarter, 8:30; 9:30; 10:30 2:00. English I, Spring Quarter, M. W. F., 3:00.

3. **Argumentation I (Fall)** 3 Hrs.
A detailed study of the principles of argumentation; practice in brief-making and debating. Prerequisites: English 1 and 2. M. W. F., 2:00.

23. **Argumentation II (Winter)** 3 Hrs.
Continuation of English 3. No credit is given in argumentation until both courses have been completed. Prerequisite: English 3. M. W. F., 2:00.

4. **The Short Story I (Winter)** 2 Hrs.

24. **The Short Story II (Spring)** 2 Hrs.

5. **Expository Writing I (Fall)** 2 Hrs.
A study of the various essay types and the preparation of fortnightly themes. Considerable attention is given to the familiar essay. No credit unless followed by English 25. Prerequisites: English 1 and 2. T. Th., 8:30.

25. **Expository Writing II (Winter)** 2 Hrs.
Continuation of English 5. T. Th., 8:30.

6. **Eighteenth Century Prose I (Fall)** 3 Hrs.
7. **Eighteenth Century Prose II (Winter)** 3 Hrs.
In these courses a study is made of the prose of Defoe, Swift, Steele, Addison, Fielding, Burke, Gibbon, Johnson, Goldsmith and Boswell. An attempt is made to interpret eighteenth century thought through the chief prose writers of the period. Prerequisites: English 1 and 2. M. W. F., 9:30. (1926-27).

8. **Eighteenth Century Poetry (Spring)** 3 Hrs.

10. **Shakespeare (Fall)** 3 Hrs.
Histories. Prerequisites: English 1 and 2.
11. Shakespeare (Winter) 3 Hrs.
   Tragedies. Prerequisites: English 1 and 2.
12. Shakespeare (Spring, Summer) 3 Hrs.
   Comedies. Prerequisites: English 1 and 2.
   In these courses Shakespeare is studied as a great poet, dramatist, interpreter of the age in which he lived, and as an interpreter of human life. Attention is given to the technique of the Elizabethan Drama. M. W. F., 9:30.
14. Nineteenth Century Poetry I (Fall) 3 Hrs.
   A survey of Wordsworth, Coleridge, Scott, Byron, Keats, Shelly, Morris, Swinburne and Rosetti.
15. Nineteenth Century Poetry II (Winter) 3 Hrs.
   A study of the poetry of Tennyson. Special attention is given to Tennyson as an interpreter of the social trend of the nineteenth century. Summer, M. W. F., 4:00.
16. Nineteenth Century Poetry III (Spring) 3 Hrs.
   A study of Browning. Special attention is given to Browning as a portrayer of character and to his philosophy. In English 14, 15, and 16 a study is also made of the various forms of poetry, also versification and criticism. These three courses constitute a year's work. M. W. F., 3:00.
17. Nineteenth Century Essayists I (Fall) 3 Hrs.
18. Nineteenth Century Essayists II (Winter) 3 Hrs.
   In English 17 and 18 the following essayists are studied: Coleridge, Lamb, Hazlitt, Landor, DeQuincey, Macauley, Carlyle, Newman, Ruskin, Huxley, Pater and Stevenson.
19. The English Novel (Spring) 3 Hrs.
   The development of the novel of the nineteenth century and its place in prose fiction. Study and criticism. English 17, 18 and 19 constitute a year's work and have as prerequisites, English 6 and 7. M. W. F., 4:00.
21. American Poetry (Summer) 3 Hrs.
   A study of the works of the nine great American poets of the nineteenth century, but attention will be given to work of recent and contemporary poets. An attempt will be made to show what America has done in poetry, the greatest of the fine arts. M. W. F., 3:00.
22. American Prose (Spring) 3 Hrs.
   Some attention is paid to the prose of the Colonial period, but the following writers are stressed: Edwards, Franklin, Irving, Hawthorne, Poe, Thoreau, Lowell, Emerson, Holmes, Calhoun, Webster and Lincoln. M. W. F., 3:00.
26. Intercollegiate Debating (Winter) 2-3 Hrs.
   Members of debating teams are selected at the close of the Fall quarter by a general try-out. Their work is supervised by a faculty committee and credited according to quantity and quality.
27. English Literature, Composition, and Methods. (Summer) 3 Hrs.
   A study of the best methods of teaching the lyric, the epic, the drama, the novel, the romance, the short-story, and the essay. Some consideration to high school composition. Attention will be given to devices, but the aim will be to teach literary interpretation and appreciation. M. W. F., 7:00.
28. News Writing I (Fall) 3 Hrs.
Basic course. Theory and practice in preparing news stories; methods of news gathering; and newspaper ethics. Open to members of the Northern Review staff and students majoring in English. M. W. F., 7:00.

29. News Writing II (Winter) 3 Hrs.
Continuation of above. Special attention is given to feature and human interest stories; comparison of methods of different papers in handling news; and practice in writing news stories and reviews. M. W. F., 7:00.

30. Copy Reading and Editing (Spring) 3 Hrs.
Headline writing; use of style sheets and style books; terms and phrases used in handling copy. Lectures on duties of members of an editorial staff. Visits to modern newspaper offices. Prerequisites: English 28 and 29. M. W. F., 7:00.

DEPARTMENT OF GREEK
PROFESSOR SCHOO NOVER

1. Elementary Greek (Fall) 5 Hrs.
2. Elementary Greek (Winter) 5 Hrs.
3. Elementary Greek (Spring) 5 Hrs.
Daily, 8:30.
4. Xenophon’s Anabasis (Fall) 5 Hrs.
5. Xenophon’s Anabasis (Winter) 5 Hrs.
6. Sacred Greek (Spring) 5 Hrs.
Daily, 3:00. A literary study of the period is a part of each course.

DEPARTMENT OF HISTORY
PROFESSOR NISWANDER

History 1, 2, and 3 may not be counted toward a major in this department.

1. Western Europe (Fall, Summer) 3 Hrs.
2. Western Europe (Winter) 3 Hrs.
3. Western Europe (Spring) 3 Hrs.
A comprehensive survey of the history from the barbarian invasions to the present time. Both as to content and methods of study, the work is introductory. M. W. F., 8:30 or 9:30. Summer, 9:30.

4. English History I (Fall) 3 Hrs.
5. English History II (Winter) 3 Hrs.
6. English History III (Spring) 3 Hrs.
An introductory study of English history from the earliest times to the present; the object being to gain a general knowledge of the subject, or for those specializing in American history or English literature. It is also recommended for secondary teachers. M. W. F., 2:00. (1926-27).

7. Renaissance and Reformation I (Fall) 2 Hrs.
8. Renaissance and Reformation II (Winter) 2 Hrs.
9. Renaissance and Reformation III (Spring) 2 Hrs.
The course deals with the development of civilization in Italy, Germany, and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt.
and the Catholic Reformation. The object is to see as clearly as possible the relation of these movements to the present day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the Reformation. Prerequisites: History 1, 2 and 3, or equivalent. T. Th., 10:30.

10. French Revolution (Fall) 3 Hrs.
11. Europe Since 1815 (Winter) 3 Hrs.
12. Europe Since 1815 (Spring) 3 Hrs.

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institution; the public the private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent. M. W. F., 10:30. (1926-27).

13. American History I (Fall) 3 Hrs.
15. American History III (Spring) 3 Hrs.

A general study of the history of the United States from the discovery of America to the present time. Political, constitutional and economic phases will receive chief attention. M. W. F., 3:00.

16. Recent American History I (Fall) 3 Hrs.
17. Recent American History II (Winter) 3 Hrs.
18. Recent American History III (Spring) 3 Hrs.

In this course a detailed study of the history of the United States since 1870 is made. This work is intended for those students who expect to teach history, or those majoring in the social sciences. Prerequisites: Courses 1, 2, 3, 13, 14, 15. M. W. F., 2:00.

19. The Teaching of History 2 Hrs.

Lectures and reading upon methods of teaching history in the secondary school, examination of text-books, followed by practice work in the preparation of lesson for teaching, and the conduct of recitation. This course should be taken by all who desire to be recommended for teaching positions in this subject. This course will be offered in the Spring and Summer. T. Th., 3:00.

DEPARTMENT OF LATIN

PROFESSOR SCHOOLOVER

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student's effort is directed toward an appreciation of Roman writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

1. Elementary Latin (Fall) 5 Hrs.
2. Elementary Latin (Winter) 5 Hrs.
3. Elementary Latin (Spring) 5 Hrs.
Elementary Latin daily, 7:00
4. Caesar I (Fall) 5 Hrs.
5. Caesar II (Winter) 5 Hrs.
6. Caesar III (Spring) 5 Hrs.
Caesar daily, 4:00.
7. Cicero's Orations I (Fall) 5 Hrs.
8. Cicero's Orations II (Winter) 5 Hrs.
9. Cicero's Orations III (Spring) 5 Hrs.
10. Cicero—De Senectute et Amicitia (Fall) 5 Hrs.
11. Horace—Odes and Epodes (Winter) 5 Hrs.
12. Livy—Selections from Books X, and XXII (Spring) 5 Hrs.
Courses 10, 11 and 12 are open to the students who have presented four units of Latin for college entrance. Daily, 1:00.
13. Teacher's Training Course (Summer) 2 Hrs.
Lectures and discussions on methods of teaching paradigms, translation, vocabulary and composition. Portions of the authors commonly studied in secondary schools are read in class, to illustrate the discussions. Open only to seniors whose major work is in the Latin department. T. Th., 1:00.

DEPARTMENT OF MATHEMATICS

PROFESSORS FAIRCHILD, WHITTED, MR. FERBRACHE

This department offers courses primarily (1) as a part of a liberal education, (2) as requirements for engineering students, and (3) for prospective graduate students in mathematics and physics. In all courses, the theory is developed, followed by the application to exercises and practical problems where possible.

Those who take any mathematics are advised to complete courses 7, 8 and 9. Those who major in mathematics and prospective graduate students in mathematics, should complete courses 12, 13 and 14. Students in applied mathematics should follow course 9 by courses 12 and 13.

1a, 1b, 1c. Sub-Freshman Mathematics 9 Hrs.
Open to students who desire mathematics but present only one unit of algebra and one unit of geometry for entrance. Advanced high school algebra and solid geometry. Course continues through the year. Three hours credit each quarter. Daily, 7:00.

1. College Algebra I 5 Hrs.
Topics: Rational fractions, binomial theorem; evolution; irrational functions; quadratic equations; equations in quadratic form; simultaneous quadratic equations; ratio; proportion and variation; arithmetical, geometrical and harmonical progressions. Prerequisites: College entrance units, including 1½ units high school algebra. Fall, 7:00 or 10:30; Winter, 1:00; Summer, 1:00.

2. College Algebra II 4 Hrs.
Topics: Imaginary and complex numbers; logarithms; mathematical induction; theory of equations; determinants. Prerequisite: 1. Winter, 7:00 or 9:30; Spring 1:00; Summer, 9:30.

3. Trigonometry I 5 Hrs.
Topics: Trigonometric functions and equations; solution of plane triangles; applications. Prerequisite: College entrance units, including high school algebra, 1½ units and plane and solid geometry, 1½ units. Fall, 8:30; Winter, 7:00 or 10:30; Spring, 7:00; Summer, 2:00.
4. Trigonometry and Astronomy 5 Hrs.
Topics: Complex numbers; DeMoivre's theorem; trigonometric series; hyperbolic functions; spherical trigonometry with applications to geodesy and astronomy. Prerequisite: 3. Spring, 8:30.

5 Analytic Geometry I 4 Hrs.
Topics: Loci and their equations; the straight line; the circle; graphs in rectangular and polar coordinates; transformations; conic sections. Prerequisites: 1, 3, Spring, 7:00 or 10:30; Summer, 8:30.

6. Analytic Geometry II 3 Hrs.
Topics: Conic sections; tangents; parametric equations and loci; space co-ordinates and loci; the plane; special quadric surface; empirical equations. Prerequisite: 5. Fall, M. W. F., 8:30.

7. Calculus I (Differential) 4 Hrs.
Topics: Functional notation; total and partial differentiation, with applications; successive differentiation; differentials; implicit and explicit functions; convergence and divergence of infinite series; expansion of functions; indeterminate forms; maxima and minima of functions of one variable. Prerequisite: 5. Fall, 10:30; Summer, 10:30.

8. Calculus II (Differential and Integral) 4 Hrs.
Topics: Change of variable; maxima and minima of functions of two or more variables; direction of curves; tangents and normals, tangent plane and normal line; direction of curvature; curvature and radius of curvature; the osculating circle; envelopes; methods of integration by type of integrant; applications of simple integration. Prerequisite: 6, 7. Fall, 1:00; Winter, 10:30.

9. Calculus III (Integral) 4 Hrs.
Topics: Integration by parts; reduction formulae; integration by substitution, integration as a summation; applications; successive integration and the application to surfaces, volumes, moments of inertia, centers of gravity, fluid pressure and attraction at a point; hyperbolic functions; the cycloid. Prerequisite: 8. Winter, 1:00; Spring, 10:30.

10. Conic Sections (Summer) 3 Hrs.
There are five different figures that can be made by a plane cutting a cone: a triangle, a circle, an ellipse, a parabola, and an hyperbola. The three last mentioned are commonly regarded as embracing the whole of conic sections. It is important to study these curves because of their application to astronomy and other sciences. Prerequisites: Plane Geometry, M. W. F., 3:00.

11. Descriptive Astronomy (Fall) 3 Hrs.
Topics: Reference points and lines; the constellations; the earth and its motion; time; the moon; the solar system; the planets; comets and meteors; the sun; the stars and nebulae. Eight hours of observations with notes are required. Prerequisite: 4. M. W. F., 9:30.

12. Differential Equations (Winter) 3 Hrs.
Topics: Equations of the first order and degree; equations of the first order, but not of the first degree; equations of the second order; linear equations with constant coefficients. Prerequisite: 9. M. W. F., 2:00.
13. Theoretical Mechanics 5 Hrs.
Topics: Center of gravity; moment of areas and mass; moment of inertia; ellipse of inertia; kinematics of a point; kinetics of a material particle; work; energy; impulse; the simple pendulum. Prerequisite: 9. Spring, 9:30.

14. Theory of Functions of a Complex Variable 4 Hrs.
(Spring) Topics: The rational functions and stereographic projection; automorphic functions; continuity of a rational function of a complex variable; derivative of a rational function of a complex variable; conformal representation; the integral of a regular function of a complex variable.

15. History and Methods of Mathematics (Summer) 5 Hrs.
A systematic survey of the historical development of mathematics with lecture and reading upon methods of teaching mathematics in the secondary schools. This course should be taken by all who desire to be recommended for teaching positions in this subject. Daily, 7:00.

DEPARTMENT OF MODERN LANGUAGES
PROFESSOR DAVIS, MR. CRAUSAZ AND ASSISTANTS

Romantic Languages and Literature
The study of a foreign language should enable a person to use it conversationally; to read it for literary and scientific purposes; and to write it for business correspondence. The courses in this department are designed to meet both cultural and practical needs. The advanced courses afford opportunity for students to major in languages. If a student expects to do university graduate work, he should have a working knowledge of two modern languages, preferably French and German.

Students looking forward to a business career should plan their courses so as to include at least two years of French or Spanish, or both.

FRENCH
1. Elementary French (Fall) 5 Hrs.
2. Elementary French (Winter) 5 Hrs.
3. Intermediate French (Spring) 5 Hrs.
4. Intermediate French (Summer) 5 Hrs.

These courses are designed for students who do not present entrance credits in French, but desire a working knowledge of the language. These four courses comprise the essentials of grammar, the acquisition of a working vocabulary, irregular verbs and idioms, and practice in speaking and reading the language. Especial stress is laid on the mastery of a good pronunciation by the use of phonetics. No credit toward graduation is given for elementary language courses until completed and 1, 2 and 3 should be taken consecutively. Daily, 9:30 or 1:00. Summer, 1:00.

5. Introduction to French Literature (Fall) 3 Hrs.
6. Survey of the 18th and 19th Centuries (Winter) 3 Hrs.
7. Modern Tendencies in French Literature (Spring) 3 Hrs.
8. Masterpieces of French Literature (Summer) 3 Hrs.

French 5, 6 and 7 treat of the literature of the Renaissance and Classical periods in relation to modern forms, and
influences on English literature; of the philosophic age, the romantic and realistic movements, and the democratic tendencies of nineteenth century literature. Prerequisite: Four quarters of college French. French 9 is a course for Summer Quarter students, and consists of selections from the masterpieces of French literature. M. W. F., 9:30.

9. Prose, Conversation and Composition (Fall) 3 Hrs.
10. The French Novel (Winter) 3 Hrs.
11. Contemporary French Writers (Spring) 3 Hrs.
12. French Poetry (Summer) 3 Hrs.

Colombia forms the basis for practice in oral and written French. Idioms from the text learned, grammar reviewed, laboratory practice in phonetics, phonograph records by artists as models, weekly themes in French. Prerequisite, two years of French. French 10 and 11 consists of lectures, collateral reading and reports; French 12 is an introduction to lyric poetry from texts and music. M. W. F., 2:00.

13, 14. The French Drama (Fall and Winter) 3 Hrs.

Studies in the early drama, with lectures and readings from the drama of the seventeenth and eighteenth centuries and those of later writers, chosen mainly with a view to showing dramatic treatment of social questions. M. W. F., 2:00.

15, 16, 17. The Development of Social Ideals in French Literature 2 Hrs.

These courses correlate with French 5, 6 and 7. The following types will be studied: "le chevalier" of the Middle Ages (la Chanson de Roland); "L’escholler" (Francois Villon); "L’homme de la Renaissance" (Montaigne, Rabelais); "L’honnête homme" of the 17th century (Molière, La Fontaine, Pascal); "le Philosophe" of the 18th century (Voltaire, Rousseau); "le romantique" of the 19th century. (Lamartine, Musset): "L’Intellectuel" (Renan, Anatole France). T. Th., 9:30.

18. Scientific French (Winter) 2 Hrs.

Intended for students who desire to read readily scientific French texts and periodicals. The stress will be placed on acquiring the ability to get the meaning of the printed pages rather than on language training. Hour to be arranged upon consultation.

19. Teachers’ Course in Methods (Spring) 2 Hrs.

A course for prospective teachers of French and Spanish. Required of majors and all who seek the recommendation of the department as teachers of these subjects in high schools. Methods, selection of text-books, scientific methods of teaching pronunciation, grammar and composition. Prerequisite, three years of either French or Spanish. Recitations, reports and private conferences. T. Th., Hour to be arranged.

20. Advanced Composition (Fall) 2 Hrs.
22. Commercial French (Winter) 2 Hrs.
24. Phonetics (Spring) 2 Hrs.

These courses correlate with French 9, 10 and 11. The first is given to composition, the second to commercial practice of the present day business world, and the third to developing correct pronunciation. These courses may be taken independently. T. Th., 2:00.

21. History of Architecture (Fall) 3 Hrs.

The contribution of architecture to the development of civ-
Ilization and culture, with special attention to the influence of the French Gothic. Open to all students, and of particular value to Engineers. Texts and lectures in English. M. W. F., 7:00.

SPANISH

1. Elementary Spanish (Fall) 5 Hrs.
2. Elementary Spanish (Winter) 5 Hrs.
3. Intermediate Spanish (Spring) 5 Hrs.
4. Intermediate Spanish (Summer) 5 Hrs.

These are classes for beginners similar to Elementary and Intermediate French, and must precede all other courses in Spanish. Castilian pronunciation, grammar, memory and oral drill, with easy graded reading. Daily, 7:00.

5. Survey of Spanish Literature (Fall) 3 Hrs.
6. Classical Writers (Winter) 3 Hrs.
7. Modern Writers (Spanish) 3 Hrs.
8. Masterpieces of Spanish Literature (Summer) 3 Hrs.

The history of Spain and Spanish literature from the origins to the present time, with assigned readings from literature of the various periods; conversation based on the texts read; themes in Spanish. M. W. F., 8:30.

10. Survey of Spanish Drama (Fall) 3 Hrs.
11. Modern Spanish Drama (Winter) 3 Hrs.
12. Spanish Poetry (Spring) 3 Hrs.

These courses furnish an intensive study of a limited number of representative dramatists and poets, with collateral readings and reports. Given in alternate years with Spanish 5, 6 and 7. M. W. F., 8:30. (1926-27).

13. Advanced Composition (Fall) 2 Hrs.
15. History of Latin America (Spring) 2 Hrs.

These courses may be taken concurrently with Spanish 5, 6 and 7 or Spanish 10, 11 and 12, and are intended to give the student a working knowledge of present-day conditions, opportunities, business forms and methods in the principal Hispanic countries. Class work is supplemented by collateral reading of Spanish-American literature, and by the use of correspondence representing actual business transactions. T. Th., 8:30.

16. Spanish Phonetics (Summer) 2 Hrs.

GERMAN

1. Elementary German (Fall) 5 Hrs.
2. Elementary German (Winter) 5 Hrs.
3. Intermediate German (Spring) 5 Hrs.
4. Intermediate German (Summer) 5 Hrs.

Pronunciation, essentials of grammar, composition, verb drill, easy graded reading preparatory to reading science from texts and periodicals, and the classical literature. Daily, 10:30.

5. Survey of German Literature (Fall) 3 Hrs.
6. Modern Prose and Poetry (Winter) 3 Hrs.
7. German Drama (Spring) 3 Hrs.
8. Masterpieces of German Literature (Summer) 3 Hrs.

An outline of German Literature from the beginning to
the present time. Selections will be read from different periods showing the recent trend of literature and the influence of German literature on the literature of other lands. Prerequisite: Two years of German. M. W. F., 3:00.

9. Scientific German (Winter)  2 Hrs.
A course to enable the student to read German technical literature. This is preceded by drill on word formation, word compounds, sentence structure. May be taken concurrently with 6 or 11. T. Th., 3:00.

10. Schiller and Lessing (Fall)  3 Hrs.
11. Goethe (Winter)  3 Hrs.
12. The Romantic Period (Spring)  3 Hrs.
These three courses are given in alternate years with German 5, 6 and 7. M. W. F., 3:00. (1926-27).

13. German Composition (Fall)  2 Hrs.
A course in composition which may be taken concurrently with German 5.

DEPARTMENT OF BIBLE AND PHILOSOPHY
PROFESSOR VAN BUREN

BIBLE

1. Old Testament (Fall)  3 Hrs.
2. Old Testament (Winter)  3 Hrs.
An historical approach to the Old Testament from the early records up to the intertestamental period. Emphasis is given to the religious and social contributions of the Hebrews. The Fall Quarter completes the work to the close of the seventh century. M. W. F., 2:00.

3. Life of Christ (Spring)  3 Hrs.
An examination of the historical condition at and before the time of Christ and Christ's religious and social messages. The aim of the course is to enable the student to construct his own Life of Christ. M. W. F., 2:00.

4. Paul and His Epistles (Summer)  3 Hrs.
The man, his message, and the influences which overcame the Roman world. Study is made of world conditions during the Pauline period. M. W. F., 2:00.

RELIGIOUS EDUCATION

1. Introduction to Religious Education (Fall, Summer)  3 Hrs.
An introductory course, including the survey of the field; materials, methods, projects, and reasons for the growing demand in this field. Prerequisite: Bible. M. W. F., 9:30.

2. Curriculum of Religious Education (Winter)  3 Hrs.
A study of materials now available; those being used; the various series now being published; and the principles which should govern the curriculum. Prerequisite: Religious Education 1. M. W. F., 9:30.

3. Principles and Methods of Religious Education (Spring)  3 Hrs.
A study of religious teaching and the best methods to be employed, together with the fitting of materials to different ages. Special attention is given to principles applicable to
elementary and high schools. Prerequisite: Religious Education 2. M. W. F., 9:30.

4. Religion of Childhood and Youth (Summer)  3 Hrs.
   The importance of religion in the pre-school age, and its best adaptation to boys and girls of school age. Prerequisite: Religious Education 2. M. W. F., 9:30.

RELIGION

1. Comparative Religion (Fall)  3 Hrs.
   The religions of the world are compared and analyzed as to their value and contributions. A systematic study of the primitive and modern religions. M. W. F., 4:00.

2. Evidences of Christianity (Winter)  3 Hrs.

3. Church History (Summer)  3 Hrs.
   A discussion of the leading events in the life of the church from the Apostolic Age to the present. The inter-relations of movements and events of both the church and the world are studied, leading to an attempted understanding of present-day religious conditions. M. W. F., 4:00.

4. The Apostolic Age (Spring)  3 Hrs.
   Primitive Christianity, the early church fathers, and the means by which early Christianity found a place for itself in the world. M. W. F., 4:00.

MISSIONS

1. Survey of the World (Fall)  2 Hrs.
   The religious situation of the world today. T. Th., 8:30.

2. Foreign Missions (Winter)  2 Hrs.
   The foreign field, its needs and its opportunities. T. Th., 8:30.

3. Home Missions (Spring)  2 Hrs.
   The conditions, needs and opportunities of Christian work in our home field. A study of the method of approach to the problems. T. Th., 8:30.

4. Expansion of Christianity (Summer)  2 Hrs.
   The Reformation and the modern world movement. T. Th., 8:30.

PHILOSOPHY

4. Ethics (Spring, Summer)  3 Hrs.
   A study of morality and the problems of conduct; their historical development and social and political relationship. Especially designed for teachers and students in professional schools. M. W. F., 3:00.

5. History of Philosophy I (Fall)  3 Hrs.
6. History of Philosophy II (Winter)  3 Hrs.
7. History of Philosophy III (Spring)  3 Hrs.
   These three courses in philosophy trace the movements of philosophical thought up to and including (a) the time of Christ, (b) the close of the nineteenth century, and (c) recent and present philosophy. The courses must be taken in sequence. M. W. F., 10:30.
DEPARTMENT OF PHYSICAL EDUCATION

PROFESSORS NEWTON, RODERICK, SHARER
AND ASSISTANTS

Student life should be well balanced as to mental application and physical training. This department offers a rational program of physical education designed to secure and maintain the highest degree of physical efficiency in both men and women. A careful physical examination is given each student at the beginning of each year and advice is offered to aid in the maintenance of a healthy body.

Two hours of practice per week are required of each student during the first six quarters or residence. One hour credit each quarter. Six hours credit required for graduation.

REQUIRED COURSES

First Year. Required work.
Calisthenics, gymnastics, elementary apparatus work, elementary tumbling, track, baseball, tennis, basketball.

Second Year. Required work
Advanced calisthenics, advanced apparatus work, advanced gymnastics, track, wrestling, boxing, tennis, baseball. The gymnasium work of the first and second year (six quarters) totals six hours of credit, but is not included in the 180 hours of collegiate work required for graduation with the Bachelor's degree.

ELECTIVE COURSES

1. Athletic Coaching (Summer) 2 Hrs.
A separate section for each sport, including basketball and field hockey for women. A study of the game from a coaching viewpoint with thorough fundamental training in each position. The building of plays, methods of training and care of the squad will receive their proper emphasis. 3:00.
Men, M., W., F. Women, T. Th. 1 section each day.

2. Educational Games (Spring) 1 Hr.
A study of elementary physical training in game form. Especially adapted to those interested in settlement houses, playgrounds and elementary grade school work. M. W. F., 3:00.

3. Special Methods in Physical Education (Spring) 2 Hrs.
For men and women. This course is especially designed to prepare teachers for public school instruction in physical education. An outline and text book with practical demonstration will be included. Two sections. M. W; T. Th., 2:00.

4. First Aid (Winter) 3 Hrs.

5. Personal and Social Hygiene (Spring) 3 Hrs.
Presupposes a knowledge of physiology. A thorough study of health problems, social responsibility in general hygiene, and personal and municipal sanitation will be emphasized. M. W. F., 9:30.

6. Applied Anatomy and Kinesiology (Fall) 2 Hrs.

7. Physical Diagnosis (Winter) 2 Hrs.
DEPARTMENT OF PHYSICS
PROFESSOR BERGER AND ASSISTANTS

8. The Teaching of Physics (Summer) 5 Hrs.
The course is based on Mann's, The Teaching of Physics. The work consists of lectures, reviews of numerous high school texts on physics, and actual preparation, assignment, and teaching of assigned topics in high school physics. Also, the student will be given information as to the best method of fitting up a laboratory. Daily, 8:30.

9. General Physics (Fall) 4 Hrs.
10. General Physics (Winter) 4 Hrs.
11. General Physics (Spring) 4 Hrs.
A year's work in collegiate physics. Not open to Engineering students. Prerequisites: Preparatory Physics and Physics 12. Class three hours, M. W. F., 4:00; laboratory, T. Th., two hour periods.

No one will be recommended by the department for a position as physics teacher who has not completed courses 8, 9, 10 and 11.

12. Freshman Physics (Spring) 2 Hrs.
A recitation and problem course intended to bridge the gap between high school physics and sophomore college physics. The mathematics necessary for courses 9, 10 and 11 is handled. Required of pre-medics. Prerequisite: High School Physics. Class four hours. T. W. Th. F., 7:00.

13. Advanced Mechanics (Fall) 5 Hrs.
A course in mechanics problems. Prerequisite: Physics 11 and Trigonometry. Daily, 3:00.

14. Mathematics of Physics (Winter) 5 Hrs.
A course dealing with the application of mathematics to physics and related sciences. Prerequisite: Physics 11 and Calculus. Daily, 3:00.

15. Direct Current Machines (Spring) 5 Hrs.
A study of the theory and practical operation of the direct current machines used in physics laboratory. Class four hours; one hour laboratory. Prerequisites: Physics 11 and Trigonometry. Daily, 3:00.

DEPARTMENT OF POLITICAL SCIENCE AND ECONOMICS
PROFESSORS BINKLEY AND RODERICK

POLITICAL SCIENCE

1. Government and Politics (Fall, Summer) 3 Hrs.
2. Government and Politics (Winter) 3 Hrs.
3. Government and Politics (Spring) 3 Hrs.
Beginning with a brief survey of the origin of constitutional government in America followed by a somewhat detailed examination of our national and state governments; also a study of municipal and other local governments. Due emphasis is placed upon organization and activity of political parties. M. W. F., 10:30 or 1:00. Summer, 4:00.
4. Municipal Government I (Fall) 2 Hrs.
5. Municipal Government II (Winter) 2 Hrs.
6. Municipal Government III (Spring) 2 Hrs.

A comparative and historical study of the activities, functions and problems of European and American cities. Special emphasis is placed on recent tendencies toward change in the form of city government and on meeting the new problems arising therefrom. In studying the government of European cities special consideration is given to such features as may be used to advantage in the cities of the United States. Prerequisite: Political Science 1, 2 and 3. T. Th., 1:00.

7. Comparative Government I (Fall) 2 Hrs.
8. Comparative Government II (Winter) 2 Hrs.
9. Comparative Government III (Spring) 2 Hrs.

A study of the problems of constitutional and popular government based upon a comparison of the modern constitutions of European and American States and with a view to testing our own constitutional principles and practice by such comparison. Prerequisites: Political Science 1, 2 and 3. T. Th., 1:00. (1926-27).

ECONOMICS

1. General Economics (Fall) 3 Hrs.
2. General Economics (Winter) 3 Hrs.
3. General Economics (Spring) 3 Hrs.

General introduction to a study of economic questions. The theories underlying the various problems of economics are first dealt with, followed by a brief survey of the principles of foreign exchange, money, currency, banking, labor problems and other topics relating to the general subject. M. W. F., 4:00.

4. Labor Problems I (Fall) 2 Hrs.
5. Labor Problems II (Winter) 2 Hrs.
6. Labor Problems III (Spring) 2 Hrs.

A brief history of the problems and legislation connected with the labor question, followed by a more detailed study of the present day questions and the attempts being made to solve the problems which have arisen. Open to those who have taken, or are taking, Economics 1, 2, 3. T. Th., 2:00. (1926-27).

7. Money and Banking I (Fall) 2 Hrs.
8. Money and Banking II (Winter) 2 Hrs.
9. Money and Banking III (Spring) 2 Hrs.

A study of money, its historical development, coinage, legal tender, the gold standard, index numbers and devices for stabilizing the dollar; credit; banking functions and operation; clearing house system; historical development of American and foreign banking systems and a special study of our national banks under the Reserve System. Prerequisites: Economics 1, 2, 3. T. Th., 2:00.
10. Economic History I (Fall) 3 Hrs.
11. Economic History II (Winter) 3 Hrs.
12. Economic History III (Spring) 3 Hrs.

A study of the economic development of modern Europe with special reference to England, France and Germany; also a survey of the economic development of the United States. Primarily for pre-commerce students but open to all others. M. W. F., 2:00.

13. Business Forecasting 1 Hr.

Practical application of economic theory. Several standard economic services dealing with current matter are used in teaching the forecasting of business trends. Not open to freshmen. Each quarter except Summer. T., 10:30.

14. General Economics (Summer) 5 Hrs.

A comprehensive survey of the field of economics for teachers. Not open to students majoring in economics. Daily, 2:00.

15. Business Administration (Winter) 3 Hrs.
16. Business Administration (Spring) 3 Hrs.

Two courses designed to acquaint the student with the problems involved in plant location, various types of ownership organizations, administration of personnel, production control and purchasing. Consideration is also given to the methods of marketing from the standpoint of finance and organization. A survey of the problems of business administration. The courses are sequential and may be taken concurrently with or following Economics. M. W. F., 9:30.

—Mr. Roderick.

DEPARTMENT OF PSYCHOLOGY AND SOCIOLOGY

PROFESSOR GRAY

PSYCHOLOGY

1. General Psychology I (Fall) 3 Hrs.
2. General Psychology II (Winter) 3 Hrs.

These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Prerequisite: One year of college work. Psychology 2, Summer 1926. M. W. F., 10:30 or 3:00.

3. Psychology of Religion (Spring) 3 Hrs.

This is a study of a special subject based on a thorough elementary course in psychology. Three main topics are treated: (1) The beginning of religion in the race. Special topics, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study in adolescence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the
psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Prerequisites: Psychology 1 and 2. M. W. F., 10:30 or 3:00.

4. Social Psychology (Spring)  3 Hrs.

The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, perception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 3. Prerequisites: Psychology 1 and 2. M. W. F., 10:30 or 3:00. (1926-27).

5. Educational Psychology (Fall and Summer)  3 Hrs.

This course treats of the learning process and the methods of increasing its efficiency. Such topics as instincts and habits, economy in memory and association, attention, interest and the higher thought process, will be discussed. Prerequisites: Psychology 1 and 2 or Educational Psychology 1 and 2. M. W. F., 9:30.

6. Psychology of High School Subjects I (Winter)  3 Hrs.

The study of the adolescent mind together with a comparative analysis of the theoretical and practical aspects of the subjects taught in the high schools. Prerequisite: Educational Psychology. M. W. F., 9:30.

7. Psychology of High School Subjects II (Spring)  3 Hrs.


8. Psychology of High School Subjects (Summer)  4 Hrs.

A comparative study of the theoretical and practical phases of the subjects taught in the high schools. Prerequisites: Psychology 1 and 2 or Educational Psychology. Not open to those who have taken Psychology 6 and 7. M. T. W. F., 9:30.

9. Educational Measurements (Spring, Summer)  3 Hrs.

A course designed to meet the needs of those who expect to carry on investigations in psychology, education and social sciences, either in administrative work or graduate study. Topics: methods of handling data; computation of averages; school achievement tests; graphic representation; grading and marking systems and other related topics. Prerequisites: Psychology 1 and 2 or 5, 6 and 7. Spring, M. W. F., 4:00. Summer, M. W. F., 3:00.

SOCIOLOGY

1. General Sociology (Fall)  3 Hrs.

2. General Sociology (Winter)  3 Hrs.

3. General Sociology (Spring)  3 Hrs.

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social or-
der and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation, and thinking of the student. Courses 1-2 are prerequisite to other courses in sociology. Prerequisite: Psychology 1 and 2. M. W. F., 8:30.

4. Rural Sociology (Summer) 3 Hrs.

This course presents those principles of social theory necessary to the study of rural social problems, and includes a careful presentation of the influence of physical environment upon rural progress. Social problems in the rural community are considered in their relations to the economic conditions of the farmer; the land question; the rural church; the rural school; means of communication, etc. These are correlated with like conditions in urban social life so that the student will have a broad view of our social conditions. Prerequisite: Psychology 1 and 2. M. W. F., 7:00.

5. Educational Sociology (Spring) 3 Hrs.

A study of the application of the scientific spirit, methods and principles of sociology to education. The social basis of the school in its relation to the home, community, church and state. The social value of educational surveys and vocational courses from the utilitarian viewpoint. Prerequisites: Sociology 1 and 2. M. W. F., 7:00.

Electives from other Departments

In addition to the courses described above, candidates for degrees are allowed to present credits from Law, Expression, Engineering, or Music as follows:

Law. Constitutional Law, 10 hours.
Mechanical Drawing I. 4 hours.
Mechanical Drawing II. 2 hours.
Mechanical Drawing III. 2 hours.
Public Speaking. 9 hours.

Music: Choral, 3 hours; Theory, 6 hours.
COLLEGE OF EDUCATION

EDWARD CLINTON DARNELL, Dean
THE AIM

The College of Education of Ohio Northern University is devoted entirely to the instruction and training of teachers. The work of the College has been carefully and thoroughly organized and fully meets all the requirements of the State Department of Public instruction and the standards maintained in the best colleges of the country. All professors and instructors have had successful public school experience as well as special preparation for their work and their ideal of service is a sympathetic co-operation with all students in helping to solve their immediate problems. Such a personal experience with strong educational leaders is the best and most valuable part of any course of instruction.

This college aims to give a sound and thorough knowledge of all the branches studied; to develop correct methods of investigation and research; to aid its students in forming clear conceptions of the dignity and importance of the teacher's work; to trace in the history of education the origin and development of modern principles of teaching; to present in theory and practice approved and rational methods of instruction; to create and maintain high professional standards among present and prospective teachers; and to offer such courses for the professional training of teachers as will broaden their horizon and advance them to higher planes of usefulness, ability and service.

As stated on page 15, the Ohio Northern University "holds membership in the Association of American Colleges and the Ohio College Association," thus being placed on the "Accredited List" of the State Department of Public Instruction. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" without further examination, and, after twenty-four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

Professional Training

For the sake of insuring the normal development of children and the conservation of the teacher's health, profes-
sional training as well as sound scholarship are now demanded of all who would secure positions in the teaching service. But whatever may be the legal requirements in Ohio or any other state, preference is always given by those in charge of the administration of Public Education in any community to the teachers who have made thorough preparation for their chosen work. There is a growing public sentiment in favor of eliminating the untrained, and this will necessarily result in better salaries and more favorable recognition for those who are worthy. Abundant opportunities are always open to teachers of superior qualification and recognized merits.

Admission

Only men and women of good moral character are admitted as students in the College of Education of the Ohio Northern University. The academic requirements for entrance to courses leading to State Certificates in Ohio as fixed by the State Department of Public Instruction for all the Normal Colleges of the state, require graduation from a first grade high school, or its equivalent; and the necessary fifteen units will be accepted from first grade high schools, academies or preparatory schools recognized by the State Department of Education in their respective states. Students desiring to pursue courses of study leading to diplomas or degrees must submit their high school or preparatory credits to the Entrance Examiner at least two weeks before entering the University. All high school graduates desiring to become elementary teachers must also pass the entrance examination prescribed by the State Department of Education. It is advisable that the fifteen units be from the following distribution: English, 3-4; history, 1-3; mathematics, 2-3; science, 1-3; foreign language, 0-6; manual training or domestic science, 1-3; commerce, 0-3; and music, 1. The first number indicates the minimum and the second represents the maximum credit accepted toward entrance.
NORMAL TRAINING REQUIRED BY LAW

The changing conceptions of education and the increasing demand for greater efficiency in teaching make special preparation for the work imperative. Under the laws of Ohio professional Normal training for Elementary Teachers has been increased to thirty-six weeks, which shall include fifteen semester hours of credit in professional educational subjects in order to qualify to take the examination for an original elementary certificate.

In order to secure the state provisional elementary certificate the student must pass a uniform examination prescribed by the Director of Education; and to be certificated on one year of normal work he must pass a similar examination similarly prescribed.

All renewable certificates both elementary and high, may be renewed by passing an examination in Principles of Teaching and presenting from four and one-half to thirteen and one-half semester hours of normal training (depending on the kind of certificate) received since the original certificate was granted.

"Certificates of Professional Instruction" are issued to all students who complete the necessary number of weeks of normal work, as official evidence that the work required by law has been successfully done.
## COURSES OF STUDY

### Four Year Schedule for the Training of High School Teachers

**Degree: Bachelor of Science in Education**

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| **SECOND YEAR**       |                         |                         |
| English 10 or 3       | English 11 or 23        | English 12 or 16        |
| Psychology 1          | Psychology 2            | Psychology 3            |
| History of Education 1| History of Education 2  | History of Education 3  |
| History 13 or Political Science | History 14 or Political Science | History 15 or Political Science |
| Elective              | Elective                | Elective                |
| Physical Education    | Educational             | Physical Education      |
| 1                    | 3                       | 1                       |

| **THIRD YEAR**        |                         |                         |
| Principles of Education 1 | Principles of Education 2 | Principles of Education 3 |
| Sociology 1            | Sociology 2             | Sociology 3             |
| Bible                 | Psychology 6            | Psychology 7            |
| Elective              | Elective                | Ethics                  |
| 6                    | 6                       | 3                       |

| **FOURTH YEAR**       |                         |                         |
| School Administration 1 | School Administration 2 | School Administration 3 |
| School Law             | General H. S. Methods   | Special H. S. Methods   |
| Observation and Practice Teaching | Observation and Practice Teaching | Sociology 5 |
| Elective 7-11          | Elective 6-10           | Psychology 9            |
|                        |                         | Observation and Practice Teaching |
|                        |                         | 4                       |

*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least 27 quarter-hours should be devoted to the major subjects, and 18 quarter-hours to the minor subjects.

**This course may be completed in four college years of three quarters each, or in three years of four quarters each. In either case it represents one hundred and forty-four weeks of college work. Graduation from a first grade high school, or equivalent, is the requirement for entrance.**
Two Year Schedule for the Training of Elementary School Teachers

**Diploma: Graduate in Pedagogy**

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<td>Geography and Methods</td>
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<td>Arithmetic and Methods</td>
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<td>Public School Music</td>
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<td>Public School Music</td>
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<td>General Methods 1</td>
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<tr>
<td>School Organization 3</td>
<td>2</td>
</tr>
<tr>
<td>Observation or Practice Teaching</td>
<td>3</td>
</tr>
<tr>
<td>Rural Education</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

As will be noted from the above, this course may be completed in six quarters of twelve weeks each. The requirement for entrance is graduation from a first grade high school, or equivalent, and the passing of the entrance examination.

All teachers in service are admitted to Summer classes, by special direction of the State Department of Education; but all others who are beginning the work of preparing for elementary teaching must pass the entrance examination prescribed by the State Department of Education.
DESCRIPTION OF COURSES

EDUCATIONAL PSYCHOLOGY
PROFESSORS GRAY AND WILSON

1a. Human Behavior (Fall) 2 Hrs.
2b. Psychology of Common Branches (Winter) 2 Hrs.
3c. Pedagogy (Spring) 3 Hrs.

These are elementary courses, open to all Freshmen, and are designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined, it is offered in three units, any one of which may be taken separately if the student shall read the preceding texts and references. M. W. F., 9:30.

5. The Learning Process (Fall) 3 Hrs.
7. Psychology of H. School Subjects II (Spring) 3 Hrs.
8. Psychology of H. School Subjects (Summer) 4 Hrs.

Courses 5, 6, 7 and 8 are intended for high school teachers but are also open to students who have a working knowledge of psychological principles. M. W. F., 9:30.

9. Educational Measurements (Spring, Summer) 3 Hrs.
   Spring, M. W. F., 4:00. Summer, M. W. F., 3:00.

For description of courses 5, 6, 7, 8 and 9 see department of Psychology and Sociology, College of Liberal Arts.

HISTORY AND PRINCIPLES OF EDUCATION
DEAN DARNELL, PROFESSOR WILSON
AND CRITIC TEACHER

1. History of Education: Before the Middle Ages (Fall) 3 Hrs.
2. History of Education: During the Middle Ages (Winter) 3 Hrs.
3. History of Education: Modern Times (Spring) 3 Hrs.

History of Education 1, 2, and 3 are required of Seniors in both courses in education, but the outside readings are adjusted to the special interest of both classes of students. M. W. F., 10:30.

5. Principles of Teaching II. The Teaching Process 3 Hrs.

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practice. M. W. F., 9:30.

6. Methods of Teaching I. General Elementary (Fall) 2 Hrs.
7. Methods of Teaching II. General Elementary (Winter) 2 Hrs.
8. Methods of Teaching III. General Elementary (Spring) 2 Hrs.

A careful study of the value of method in the educative process, and the methods suitable to the different grades and how they should be modified. T. Th., 9:30.

9. Methods of Teaching: Special Elementary 5 Hrs.

The various elementary branches listed in the Two Year schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch. See outline for term schedule.
Reading Methods, Daily, 1:00
Arithmetic Methods, Daily, 8:30
History Methods, Daily, 1:00
Grammar Methods, Daily, 9:30
Agriculture Methods, Daily, 7:00, 9:30
Geography Methods, Daily, 1:00

10. Methods of Teaching I. General Secondary
(Fall) 3 Hrs.
This course is a study of a series of phases of the scientific methods of presenting high school subjects and checking on the results. M. W. F., 1:00.

11. Methods of Teaching II. Special Secondary 3 Hrs.
Students desiring special methods in subjects they are preparing to teach will get this work in the department in which they are doing major or minor work.
See discussion of course in the particular department in which it is listed. (College of Liberal Arts.)

12. Principles of Education I. (Fall) 3 Hrs.
13. Principles of Education II. (Winter) 3 Hrs.
14. Principles of Education III. (Spring) 3 Hrs.
The principles of education founded upon psychology, biology and sociology are studied to a final working basis. The dogmatical is not attempted, but a rational view-point towards present educational problems is emphasized. M. W. F., 8:30.

15. Rural Education 3 Hrs.
This is a course designed especially for the benefit of teachers in the Rural School, its possibilities and the need of efficient supervision. M., W., F., 3:00.

SCHOOL ORGANIZATION AND ADMINISTRATION
DEAN DARNELL AND CRITIC TEACHER

1. School Organization I. (Fall) 2 Hrs.
The various routine and judgment factors in classroom management are thoroughly discussed with special stress on the problem of attention and the ethics of schoolcraft.

2. School Organization II. (Winter) 2 Hrs.
The problems of school government and discipline form the basis for this course. Practical problems are formulated and discussed. An attempt is made to develop the importance of this subject as a means to an end in the great scheme of education.

3. School Organization III. (Spring) 2 Hrs.
This course offers a broad general view of the field of the American elementary school with discussions of the significance, organization, aims and goals of publicly supported elementary schools of the United States.

4. School Administration I. School Systems and Agencies. (Fall) 2 Hrs.
5. School Administration II. Secondary Education (Winter) 2 Hrs.
6. School Administration III. Vocational Education (Spring) 2 Hrs.
Study of existing school systems and the relation of the various agencies at work; comparative school legislation with attention to Ohio; school management, financial problems, buildings and furnishings.
Special study of courses of study, selection of teachers, reports, grading and records.

7. School Law and Legislation in Ohio 2 Hrs.
This is a subject that no Ohio teacher can afford to neglect. The school laws are thoroughly discussed, and the history of education in Ohio is given its proper share of attention in a course of lectures on the subject. This course is open to all interested.

PHYSICAL EDUCATION

PROFESSORS NEWTON, RODERICK, SHARER
AND ASSISTANTS

Two hours of physical education or practice per week are required of all students during the first six quarters of residence. One hour credit each quarter is given for this work. Six hours credit required for graduation.

Students in the College of Education who may be interested in preparing to teach physical education or coach athletics in public high schools and other institutions may elect additional courses in this department on the approval of the Head of the Department of Physical Education and the Dean of the College of Education.

For further information relative to the work in this department see section of catalogue devoted to Physical Education and Athletics.

EDUCATIONAL HYGIENE

DR. NEWTON

5. Personal and Social Hygiene (Winter) 3 Hrs.
Presupposes a knowledge of physiology. A thorough study of health problems, social responsibility in general hygiene, and personal and municipal sanitation will be emphasized. M. W. F., 9:30.

COMMERCIAL SUBJECTS

PROFESSOR LONG

Students in the College of Education who may be interested in preparing to teach some commercial subjects in high school may elect courses from the commercial department on the approval of the Head of the Department of Commerce and the Dean of the College of Education. Students desiring work of this kind should consult the Dean in planning their major and minor courses.

For further information relative to the work in this department see section of catalogue devoted to the School of Commerce.

PUBLIC SCHOOL DRAWING

PROFESSOR LONG

This is an elementary course based upon well established principles of expressing thought and action by symbols. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Given in Fall and Summer Quarters. Three hours credit.
PUBLIC SCHOOL MUSIC
PROFESSOR KILLEEN

This course includes a thorough training in the fundamentals of music, frequent drill in sight singing, and careful provision for the teaching of music in all grades. Special attention is given to methods of instruction and the treatment of the child voice at all ages of development.

A charge of $3.00 is made for this special training in the music department. Fall or Summer Quarters. Six hours credit.

PRACTICE TEACHING

The Observation of Teaching

Through the co-operation of the Ada Public Schools which is a member of the North Central Association, this work is accessible to all. Only a limited number, however, can be accommodated at one time, and special arrangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by the critic teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

The cadet teachers train for the elementary work in the public schools. Those planning for secondary work teach in the Ada High School. As in Observation, only a limited number can be accommodated at once, and special arrangements must be made through the Dean. All work must be done by lesson plans under the immediate direction of the regular teacher in charge, and supervised by a training teacher. Credit is given to those only who show evidence of efficiency. The work is regarded as laboratory study, and only one hour a day will be recognized. Credit four hours a quarter.

Other Courses

Full information regarding all elective courses, as well as the courses in English, Biology, Bible, General Psychology, Ethics, Sociology, etc., will be found elsewhere in this catalogue in the description of the courses given in the College of Liberal Arts.

General Regulations

The attention of students is called to the twelve (12) general regulations of the College of Liberal Arts, pages 39-40, which will be equally applicable to the College of Education.

The classification of students in the College of Education is identical with that outlined on page 40 for the College of Liberal Arts.
Honor Students

Seniors of the College of Education who have maintained a very high academic rating may be selected by the faculty of this college as honor students. The announcement of the persons selected is made at the beginning of the Winter Quarter.

Conditions of Graduation

As a condition of graduation with the degree of Bachelor of Science in Education the student must complete 186 hours, including six hours of physical education. A student graduating in the Two Year course must complete the courses as outlined in the schedule, consisting of 99 hours, including 6 hours of Physical Education.

The applicant for a degree coming from another college is required to spend at least thirty-six weeks in residence.

As a further condition of graduation with the degree of Bachelor of Science in Education the candidate shall prepare a thesis, the form of which must be in accordance with the requirements of the department and the library. The study covering some subject in the educational field, shall be selected with the advice of the Dean, shall be scheduled as a part of the last term's work for which it shall count two credit hours, and shall be filed with the Dean during the tenth week of the term in which the work is completed for graduation.

Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education and College of Liberal Arts.

Employment Bureau

This Bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with school officials in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau.

No charge is made for the services of this bureau, but only teachers of merit will be registered.
THE SPIRIT OF THE COLLEGE

For many years this institution has been a popular place for teachers to attend for professional study. Here for half a century and more, teachers from many sections of the country have come to acquire information and knowledge essential to success, and to gain inspiration for future service. To catch the spirit that prevails here and share in the enthusiasm that has always characterized the class recitations, the chapel services, the social gatherings, the public lectures, and the literary societies, will prove an inspiring influence in the life of any teacher.

Among the many features worthy of special mention, in connection with the work of the college, are the great courses of professional educational lectures and addresses given from time to time by some of the most eminent leaders of the day in various departments of activity.

In the last analysis, the real greatness of any institution depends upon the spirit of the teachers and the ideals of the students. The spirit and attitude of those who teach in this college, their personal interest in the problems of the students, and their desire to touch young lives with hands of inspiration and helpfulness, have always been characteristic of this institution. These are some of the factors that have contributed in no small degree to its phenomenal success in the professional training of teachers.

THE SUMMER QUARTER

The work of the Summer School is carefully organized and meets all the requirements of the State Department of Education.

For the summer of 1926 the work will be arranged to accommodate, first, those who wish to meet only the legal requirements; and, second, those who desire to complete a course leading to a diploma and state certificate. On the completion of the Elementary Teachers' Course of ninety-six term hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning of the Summer Quarter and continue their work during the entire quarter.

Besides the regular academic and collegiate instruction, classes are formed in all the subjects prescribed by the State Department of Education for professional training including Physical Education. Arrangements have also been made for two full courses in primary methods, including plays, games, etc.

For further particulars send for a Summer School Bulletin.
COLLEGE
OF
ENGINEERING

HARRY CHESTER BOYDEN, Dean
ADMISSION TO COLLEGE OF ENGINEERING

Candidates of good moral character may apply for admission upon the following plan:

1. By certificate. Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. Distribution of fifteen units must be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics, including solid geometry</td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Two units to be chosen from the following list:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Language</th>
<th>History</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Mathematics</td>
<td>Science</td>
</tr>
</tbody>
</table>

Applicants who lack certain preparatory units, particularly Mathematics and Science should arrange for upgrading work in the Sub-freshman class.

2. By Examination. Candidates who are not graduates of first grade high schools or academies and are therefore deficient in some of the units for admission may be admitted upon examination. Applicants must notify the Entrance Examiner in advance so that arrangements may be made to hold examinations on first day of registration.

3. On Advanced Standing. An applicant from another college, seeking for advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant’s preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college. Some credit may be allowed for practical experience in drafting, surveying, and shop work. Applicants for such credit must submit a satisfactory statement from their employer, giving time of service, nature of work, name and address of employer.
Advance credit will not be given for more than 162 quarter hours (108 semester hours).

4. As Special Student. Mature persons without special preparation and not aspiring to a degree may be admitted without having met the requirements, if on consultation, the dean is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as Special Students. Upon completion of their work, a certificate, showing the course of study pursued and the amount of work covered, will be presented them.

The official form for “Certificate of Entrance,” which may be had on application to the Entrance Examiner, should be used in all cases, in order to insure the presentation of necessary information.

DEGREES

The University is empowered to grant the customary scholastic degrees, which in the College of Engineering, are Bachelor of Science in Civil Engineering, (B. S. in C. E.); Bachelor of Science in Mechanical Engineering, (B. S. in M. E.); Bachelor of Science in Electrical Engineering, (B. S. in E. E.); and Bachelor of Science in Chemical Engineering, (B. S. in Chem. E.). Three years after graduation, upon presentation of creditable record and approved thesis the regulation degree will be conferred. The College accepts grades of equal value from other institutions of learning, but an applicant for a degree must do at least one year's work here.

Two hundred and sixteen (216) credit hours are required for graduation.

Two or three hours field or laboratory work constitute one credit hour.

The granting of degrees is in the hands of the graduation committee of which the registrar is chairman. Recommendation to this committee may be made by the faculties of the separate colleges. The eligibility of each candidate receives individual consideration.

A student cannot be a candidate for more than one professional degree at any one time.
TIME TO ENTER

In view of the fact that each basic course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. Those students entering with the required preparatory credits should preferably enter at the beginning of the Fall Quarter. Please refer to the calendar.

CIVIL ENGINEERING

This is the parent stem of all engineering pursuits, and in its broader sense includes all branches of engineering. Many of its former departments have grown into separate professions, yet there still remains a broad and important field, offering greater opportunities than ever before. No sharp line of distinction can be drawn between the provinces of the civil, electrical, and mechanical engineers. This is evident by the large number of subjects studied in common by all students of the various engineering departments; the basic engineering sciences, mathematics, physics, chemistry and some applied science being required in all the departments.

A careful study of the schedule and of the description of courses will give the prospective student a good idea of the broad field covered by our courses in civil engineering.

Practically all the local improvements are under the direct supervision of the College of Engineering. Many thousands of dollars have been expended the past few years for street paving, macadamizing, sewerage, etc., the major portion of the engineering work being done by the students themselves.

The college is supplied with high-grade instruments and appliances necessary for first class instruction and practice. The laboratories are well equipped, the drafting room large and modern, the scientific library excellent.
The following is a schedule of the course offered, showing the number of credit hours per week devoted to each subject:

### FIRST YEAR

<table>
<thead>
<tr>
<th></th>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coll. Alg. I</td>
<td>5</td>
<td>Coll. Alg. II</td>
<td>4</td>
</tr>
<tr>
<td>English I</td>
<td>3</td>
<td>English II</td>
<td>Chem. III</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1</td>
<td>Physical Ed.</td>
<td>English III</td>
</tr>
<tr>
<td></td>
<td><strong>18</strong></td>
<td></td>
<td>Physical Ed.</td>
</tr>
</tbody>
</table>

### SECOND YEAR

<table>
<thead>
<tr>
<th></th>
<th>IV</th>
<th>V</th>
<th>VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics I</td>
<td>3</td>
<td>Economics II</td>
<td>3</td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
<td>Calculus II</td>
<td>Calculus III</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
<td>Physics VI</td>
<td>Physics V</td>
</tr>
<tr>
<td>Surveying I</td>
<td>5</td>
<td>Eng. Draw. III</td>
<td>Surveying II</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1</td>
<td>Physical Ed.</td>
<td>Physical Ed.</td>
</tr>
<tr>
<td></td>
<td><strong>18</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### THIRD YEAR

<table>
<thead>
<tr>
<th></th>
<th>VII</th>
<th>VIII</th>
<th>IX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanics</td>
<td>5</td>
<td>Mech. Mat. I</td>
<td>5</td>
</tr>
<tr>
<td>Geology</td>
<td>5</td>
<td>Hydraulics I</td>
<td>Highway Eng.</td>
</tr>
<tr>
<td>Prac. Astron.</td>
<td>3</td>
<td>Mechanisms</td>
<td>Hydraulics II</td>
</tr>
<tr>
<td></td>
<td><strong>18</strong></td>
<td></td>
<td>Test. Mater.'</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>El. El. Mach.</td>
</tr>
</tbody>
</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>XI</th>
<th>XII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinf. Con. I</td>
<td>4</td>
<td>Reinf. Con. II</td>
<td>4</td>
</tr>
<tr>
<td>Sewerage</td>
<td>5</td>
<td>Water Supply</td>
<td>Irrigation &amp; Dams</td>
</tr>
<tr>
<td>Cont. &amp; Spec.</td>
<td>3</td>
<td>Foundations</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td><strong>18</strong></td>
<td>Elective</td>
<td></td>
</tr>
</tbody>
</table>
ELECTRICAL ENGINEERING

The courses offered in this branch of Engineering require a thorough study of theoretical and applied electricity. The first half of the prescribed courses of study, is, in the main, the same as that in the Civil and Mechanical Engineering curriculum, including the fundamental engineering sciences, mathematics, drawing and surveying.

The second half consists of courses of study in strength of materials, hydraulics, thermodynamics, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine design.

The theoretical work is supplemented with practical application in the laboratory and in the operation of power plant machinery. Throughout, the student is drilled in the solution of many numerical problems with a view to a firm grasp of the theory.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. An up-to-date steam engine-driven electric lighting system has been installed for lighting the University buildings and grounds, and for driving the ventilating motors. The University power plant comprises steam and gas engine units. To prevent interruption to the service, storage batteries have been installed. These batteries are available for test, and form an important addition to the laboratory equipment. In the laboratory, both direct and alternating currents are available for testing purposes.

The recent enlargement of the laboratory and the additional equipment have made it possible to accommodate a large number of students.

A complete and modern steam heating, electric lighting, and water pumping plant was installed in 1922.

This plant includes high pressure steam boilers, steam engines, and a complete water system. Students in the colleges of Electrical and Mechanical Engineering are required to acquire a certain amount of power plant operating experience including power plant testing.
The following is a schedule of the course offered, showing the number of credit hours per week devoted to each subject:

**FIRST YEAR**

<table>
<thead>
<tr>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Dwg. I</td>
<td>4 Trigonometry</td>
<td>5 Eng. Dwg. II</td>
</tr>
<tr>
<td>Chem. I</td>
<td>5 Chem. II</td>
<td>5 Chem. III</td>
</tr>
<tr>
<td>English I</td>
<td>3 English II</td>
<td>3 English III</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1 Physical Ed.</td>
<td>1 Physical Ed.</td>
</tr>
<tr>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>IV.</th>
<th>V.</th>
<th>VI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus I</td>
<td>4 Calculus II</td>
<td>4 Calculus III</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5 Physics VI</td>
<td>5 Physics V</td>
</tr>
<tr>
<td>Economics I</td>
<td>3 Economics II</td>
<td>3 Economics III</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1 Physical Ed.</td>
<td>1 Physical Ed.</td>
</tr>
<tr>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>VII.</th>
<th>VIII</th>
<th>IX</th>
</tr>
</thead>
<tbody>
<tr>
<td>El. El. Mach. Lab.</td>
<td>4 Diff. Equations</td>
<td>3 Elective</td>
</tr>
<tr>
<td><strong>19</strong></td>
<td><strong>18</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>X.</th>
<th>XI.</th>
<th>XII</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elec. Mach. VIII</td>
<td>5 Mechanism</td>
<td>5 Mach. Design I</td>
</tr>
<tr>
<td>Thermodynamics</td>
<td>5 Hydraulics I</td>
<td>5 Hyd. Mach.</td>
</tr>
<tr>
<td>Shop Projects</td>
<td>2 St. Turbines</td>
<td>4 Elective</td>
</tr>
<tr>
<td><strong>17</strong></td>
<td><strong>19</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

NOTE: The following classes may be elected during the summer Quarter.

- Prin. of Radio Comm. \( \ldots 4 \)
- Elec. Meters \( \ldots 4 \)
- Elec. Power Pits \( \ldots 2 \frac{1}{2} \)
- Power Plt. Operation \( \ldots 4 \)
- Financial Eng. \( \ldots 2 \frac{1}{2} \)


MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery.

The first half of the curriculum consists of the basic engineering studies. In the latter half an exhaustive study is made of all phases of heat engineering, together with the design, erection and maintenance of power plant apparatus. Thorough training is given in machine drafting, machine design, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

The University has its own steam and gas-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. The equipment is installed with special convenience for making tests on boilers, heating apparatus and power apparatus. In addition the central heating and lighting plant of the Ada Water and Light Co., with its equipment of Diesel engines, high pressure water pumps, et cetera, is open to the students for inspection and test.

A well equipped machine shop has been added to the laboratory outfit, giving opportunity for training in the use of tools and general machine shop practice.

The following is a schedule of the courses offered showing the number of credit hours per week devoted to each subject:

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>II.</th>
<th>III.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eng. Draw. I</td>
<td>4</td>
<td>Trigonometry</td>
</tr>
<tr>
<td>Chem. I</td>
<td>5</td>
<td>Chem. II</td>
</tr>
<tr>
<td>English I</td>
<td>3</td>
<td>English II</td>
</tr>
<tr>
<td>Physical Ed.</td>
<td>1</td>
<td>Physical Ed.</td>
</tr>
<tr>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>IV.</th>
<th>V.</th>
<th>VI.</th>
</tr>
</thead>
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**THIRD YEAR**

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<tr>
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**FOURTH YEAR**

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NOTE: Heating, Ventilation and Refrigeration is elective and will be offered only during the Summer Quarter. 5 Hrs.

**CHEMICAL ENGINEERING**

The aim is to thoroughly acquaint the student with the fundamental principles of chemical science, and to afford him a complete drill in analysis and in the preparation of inorganic and organic products, and thus to enable him to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries.

The following is the schedule of the course offered showing the number of credit hours per week devoted to each subject:

**FIRST YEAR**

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<tr>
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**SECOND YEAR**

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**SEVENTH YEAR**

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NOTE: Heating, Ventilation and Refrigeration is elective and will be offered only during the Summer Quarter. 5 Hrs.
THIRD YEAR

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FOURTH YEAR

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STUDENTS’ TECHNICAL ORGANIZATIONS

The Ohio Northern Chapter of the American Association of Engineers holds bi-monthly meetings. All engineering students are eligible to membership. Proceedings of the American Association of Engineers are received and discussed.

The O. N. U. Society of Chemical Engineers holds meetings every two weeks. Technical papers pertaining to chemical engineering are read and chemical and metallurgical subjects discussed. All students of chemical engineering are eligible to membership.

The Ohio Northern Branch of the American Institute of Electrical Engineers holds bi-monthly meetings. At these meetings original papers and papers printed in the Proceedings of American Institute of Electrical Engineers are read and discussed. All students interested in electrical engineering are eligible to membership.

The Ohio Northern branch of American Society of Mechanical Engineers, has been organized for the benefit of
those enrolled in mechanical engineering. Its meetings are held bi-monthly; at these meetings original papers relative to mechanical engineering and its various phases of work together with new developments in the field of mechanical engineering are investigated and discussed by the members of this society.

In honor of George Washington, "Surveyor, Soldier, Statesman," the above societies devote the week of February 22 to a series of Technical Lectures, Annual Exhibit, Annual Banquet, etc.

Among the visiting lecturers of the past year were: Norman M. Stineman, O. N. U. ’12, Structural Engineer, Portland Cement Association, Chicago, Illinois; H. H. Brown, Lecturer, Warren Brothers, Boston, Mass.; H. L. Kilian, Supervisor of Signals. N. Y. C. & H. R. R. R., Toledo, Ohio; Dr. E. A. Hitchcock, Dean College of Engineering, Ohio State University, Columbus, Ohio.

**THE ANNUAL INSPECTION TRIP**

The Senior Class as a whole devotes one week to an extended visit to some large commercial center. The even year class spends every minute profitably in the study of the various phases of engineering and industrial activity in Chicago, Gary, and Fort Wayne. The odd year class does the same in Pittsburgh vicinity.

**POSITIONS**

Our experience in the past has been that the demand made upon the College of Engineering for graduates has been far in excess of the supply. Representatives of many of the leading utilities and industries visit our school to interview our seniors relative to employing them immediately upon graduation. The question is asked us sometimes whether we guarantee to secure positions for our graduates. This question must be answered in the negative, as no responsible school can afford to make such a guarantee.

**DESCRIPTION OF COURSES**

For description of courses see special Engineering Bulletin.
<table>
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<tr>
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<th>PROFESSORS</th>
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<td>English I, Quan. Chem. I, Same as 2 o'clock Water Supply M. W. F, Testing Materials Lab. English II, Quan. Chem. II Mech. Mats. II Eng. Drawing I (daily) 3:00-5:00 Engr. Drg. II 1:00-3:00; 3:00-5:00 Eng. Draw. III, Phys. Chem. III Same as 1:00 o'clock Eng. Draw. III, Phys. Chem. III Same as 2:00 o'clock</td>
<td>6</td>
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THE WARREN G HARDING

COLLEGE OF LAW

WILLIAM PRICE HENDERSON, Dean
When Organized

The College of Law was organized as a department of the University in 1885, and numbers among its alumni and former students many of the most prominent lawyers of Ohio and other states. Its graduates have been uniformly successful as applicants for admission to the bar and as practitioners.

Its Purpose

The aim of its founders was to afford an opportunity for students of limited means, to secure a collegiate training in law, and by connection with the University to offer to them the added opportunity of obtaining the general education indispensable to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest purpose.

The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by any one desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:

(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to the state examinations for admission to the bar. This special instruction consists of a thorough review of the whole course and covers the period of the entire Spring Quarter. It is given once each year before the June bar examination; it is open to and required of all members of the senior class who are candidates for a degree; it is also open to special students who are otherwise eligible to and are preparing to take the state bar examination, whether they have taken the regular course in this college, or in some other College of Law, or under the tuition of an attorney. Many students
who have studied under a preceptor in a law office avail themselves of this special preparation.

(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.

(d) To inculcate the principles of legal ethics and of the lawyer's public responsibility, to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

The new building for the College of Law is now in use; it is a beautiful building of ornamental brick in the classic style, costing with furniture and other equipment, about $100,000.00, for the use of the College of Law exclusively, for which it has been designed to furnish a convenient, commodious and modern home, with room to grow, of which past experience has demonstrated the need. It includes a large well-lighted library and reading room, and the law library, already larger and better suited to the work of the college than ever before, will receive further and extensive additions, including the latest reference works and reports, the best law periodicals published, etc. In all other respects, the College of Law will be better prepared than ever to accomplish the purpose of its founders, and to add greatly to its high record of usefulness and service. The faculty has been enlarged: in the past two years its attendance has doubled, and with its new building and equipment, with its greatly increased prospects and opportunities of service, with its ideal location and reasonable rates of tuition and living expenses, it offers to the prospective student of law a combination of advantages most difficult to equal.

Moot Court

In the new Law Building there is a court room, completely and correctly furnished and equipped according to modern court procedure, and moot court, under the direct
supervision of the faculty, will continue to form a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motion and journal entries, together with the principles of proceedings in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

Method of Instruction

Each subject scheduled in the course of study requires for its completion five recitation periods of one hour each, per week throughout the quarter, except where otherwise indicated.

The instruction is based upon the text assigned for study, combined, in the second and third years, with a judicious use of cases, and completed, in the third year, with a thorough “quiz,” under the personal instruction of the faculty, preparatory to examinations for admission to the bar.

The recitation includes a thorough questioning of the student upon the text and cases studied and informal discussions by instructor and students, with constant reference to the statutes and leading cases of the jurisdiction, the whole exercise aiming to combine a knowledge of the history and fundamental principles of the law with its actual application to cases, thus giving the student a thorough grasp of the law, not only in its development, but as it now exists.

Expenses

For expenses see earlier pages of this catalogue.

Admission to College of Law

Students of good moral character may enter the College of Law at any time, but in order to receive full credit toward a degree they must enter at the beginning of the quarter; to receive the fullest benefit of the regular course, students who expect to be candidates for a degree are urged to enter
in September, the beginning of the academic year. The following entrance requirements must be met in every case.

The College of Law of the Ohio Northern University requires that the sixteen units of high school or preparatory school work shall be presented from the following distribution: English, 3 or 4 units; Foreign Language, 2 to 6 units; Mathematics, 2 to 3 units; History and Civics, 1 to 4 units; Science, 1 to 4 units; Commercial Law and Commercial Geography not more than one unit each; Astronomy, Bible, Economics, Psychology and Sociology not more than \( \frac{1}{2} \) unit each. In all cases nine of the sixteen units for entrance must have a minimum distribution as follows: English, 3; Foreign Language (which must be in one subject), 2; Mathematics, 2; History, 1; and Science, 1.

Persons who are deficient in the total number of high school units, or their proper distribution, should present their case to the University Entrance Examiner by correspondence.

Advanced Standing

Advanced standing will be given upon certificate for not more than two years study of law in residence at any reputable law school in the United States maintaining a three-year full time course of study, and proper credit will be given, upon certificate, for study in residence at any reputable law school in the United States maintaining a full time course of study less than three years in length.

Proper credit will be given, upon certificate and examination upon subjects for which advanced credit is desired, for work done in reputable part time law schools, having regard to the time devoted to such subjects in such schools, as compared to the time required therefore by the course of study prescribed by this College of Law.

All examinations required under the next preceding paragraph must be taken within two weeks after matriculation and are subject to a special fee.
Outline of Courses

A credit hour is given for the satisfactory completion of work requiring one class period a week for one quarter.

### FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<td>Contracts II... 5 Hrs.</td>
<td>Partnership... 5 Hrs.</td>
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<td>Agency... 5 Hrs.</td>
<td>Quasi-Contract... 3 Hrs.</td>
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<td>Bailments... 3 Hrs.</td>
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<td>Sales... 3 Hrs.</td>
<td>Damages... 3 Hrs.</td>
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### SECOND YEAR

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<td>Wills... 5 Hrs.</td>
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<td>Conflict of Laws... 2 Hrs.</td>
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### THIRD YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constitutional Law I... 4 Hrs.</td>
<td>Constitutional Law II... 4 Hrs.</td>
<td>Legal Ethics... 1 Hr.</td>
</tr>
<tr>
<td>Pleading I... 3 Hrs.</td>
<td>Pleading II... 3 Hrs.</td>
<td>Brief Making and Use of Law Books.</td>
</tr>
<tr>
<td>Evidence... 3 Hrs.</td>
<td>Equity II... 5 Hrs.</td>
<td>General Review and Quiz.</td>
</tr>
<tr>
<td>Equity I... 5 Hrs.</td>
<td>Evidence... 3 Hrs.</td>
<td></td>
</tr>
<tr>
<td>Moot Court</td>
<td>Moot Court</td>
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Lectures are given on legal ethics, legal history, international law and court practice.

### General Regulations

1. No credit is given for correspondence school work in law.

2. Special students may select from the courses offered, such work as they desire, with the approval of the Dean, not to exceed a maximum of 18 credit hours per quarter. Special students may not become candidates for a degree.

3. Hours above eighteen are considered as excess and are subject to special tuition rates. Only in very rare cases are regular students granted excess hours.

4. Physical education is required during the first five quarters of residence. One credit hour each quarter.

5. Chapel and class attendance are compulsory. The
rules as given under Discipline in an earlier section of this catalog are strictly enforced.

6. Students who have completed the 140 hours as listed in Outline of Courses but, because of unexcused class and chapel absences, have had their total credit hours reduced below 140, must make up the deficiency by completing such courses in the College of Liberal Arts as the Dean of the College of Law may prescribe.

7. Preregistration not only consists in procuring a registration card from the registration Secretary but also the completion of the student's schedule by the Dean on the same day that the card is procured. Violation of this rule imposes the penalty for late registration.

Graduation

The degree of Bachelor of Laws is conferred on students (1) who have completed satisfactorily the prescribed course of study as set out in the section entitled "Outline of Courses," or who have received credit therefor in accordance to the section entitled "Advanced Standing," and (2) who have studied in residence at this College for at least three quarters immediately preceding graduation.

One hundred and forty hours, and 140 quality points, including five hours of physical education, are required for graduation.

Summer Quarter

The Summer Quarter is a full quarter of twelve weeks. Full courses in the College of Law are offered under the instruction of members of the regular faculty, and full credit given for work done. This quarter affords an excellent opportunity for teachers and for others, who, for reasons of health or finance, have been unable to be in attendance during the regular college year. There is no regular or prescribed schedule of work for the Summer Quarter, but classes are formed in such of the regular subjects as may best meet the demands and requirements of those in attendance during this quarter.

Admission to Bar Examination

For the information of students who are desirous of becoming candidates for admission to the bar examination of the State of Ohio, we herewith set forth in full, Section 4 of Rule 14 enacted by the Supreme Court of the State of Ohio, which explains what general educational attainments a candidate for admission to the bar examination must have. However, those who meet the entrance requirements for admission into the College of Law are eligible to admission to the bar examination.
Section 4 of Rule 14 is as follows:

"Section 4.—Requirements as to General Learning. No one shall be admitted to the examination whose educational attainments are not clearly shown to be equal to those of a graduate of a first grade high school of this state. Evidence of such attainments shall be furnished by the applicant at the time he begins the study of law and shall be filed by him with his certificate of registration as a law student. Said registration shall not become effective until such evidence or attainments is furnished.

Any one of the following certificates may be presented:

(a) A certificate of graduation from a first grade high school of this state.
(b) A certificate of graduation from a college, university or other institution of learning, the standing of which has been approved by this court. Such certificate must evidence the completion of a course of study preparatory to the study of law which meets the approval of this Court.
(c) A certificate from the State Superintendent of Public Instruction authorizing the holder to teach in the high schools of the four year grade of Ohio; a county or city board certificate is not sufficient.
(d) Certificate from colleges, universities, high schools and college preparatory schools of recognized standing as to credits received by an applicant in high school, or college subjects (though not showing graduation) showing a total of sixteen units.

The court will not receive applications for waiver of the requirements as to general learning.

All credentials presented under Paragraph D of this rule must be submitted to the Court and if the Court is satisfied that the applicant has the educational qualifications required he will be admitted to the bar examination. The credentials presented shall be filed with the Clerk.

The Clerk of this court is authorized to accept certificates which clearly meet the requirements enumerated in paragraphs a, b, and c of this section.

Diplomas should not be presented. Certificates which may be retained permanently are desired. They should be upon the official stationery of the high school, college or other institution of learning which the applicant attended.

This requirement shall not apply to those whose certificates of general learning have been approved prior to June 7, 1923. All students registered prior to June 7, 1923, will be required to qualify as to general learning on or before January 1, 1924."
COLLEGE OF PHARMACY

RUDOLPH HENRY RAABE, Dean
IMPORTANT ANNOUNCEMENT

Beginning with the next opening date in September, 1925, the minimum course of study offered in the College of Pharmacy will cover a period of three years. Those students who entered the two year course prior to this date will be permitted to continue and complete the two year course and graduate with the degree as indicated. All matriculants in the two year course must complete such courses of study prior to September, 1927.
Under the Laws of Ohio

A School of Pharmacy in good standing is (1) one that demands for entrance the certificate of preliminary education issued by the entrance examiner of the State Board of Pharmacy; (2) that has a two-year course covering at least fifty weeks actual instruction occupying two school years with at least two months elapsing between the two years. Each school year must cover at least 250 clock hours of class room instruction and 350 clock hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

Advantages Offered Here

The College of Pharmacy of the Ohio Northern University, established in 1885, with constantly added facilities and enlarged plans, is preparing men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Practical and thorough courses are offered at a minimum expense; equipment, courses of study and facilities for work are modern.

Excellent opportunity to review for state examinations. Only those who are otherwise eligible to the assistant pharmacist or registered pharmacist examination will be admitted to the review classes.

Young women admitted on an equality with young men.

Standardized courses means that our graduates are recognized in nearly every state of the union and many foreign countries.

School five days per week.

The student receives an unusual amount of personal attention.

The student is carefully instructed in the duties of the pharmacist in connection with his services to the public, in the duties of the pharmacist in his relation to the physician, in the duties of the pharmacists to each other and in his
duties to the profession at large as found in the code of ethics of the American Pharmaceutical Association.

The Ohio Board of Pharmacy grants recognition to the graduates of this College of Pharmacy.

Laboratories

In addition to the general biological, chemical and physical laboratories of the University, the College of Pharmacy has two Pharmaceutical and Dispensing laboratories. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is equipped with all the accessories necessary for chemical analysis and synthesis. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

The Microscopic Laboratory is equipped with fine instruments for individual microscopic investigation.

Requirements for Admission

The Ohio Board of Pharmacy announces as follows:

“The following preliminary educational credentials shall be sufficient. On and after January 1, 1920, a diploma from a legally constituted high school, normal school or academy, issued after at least four years of study.”

Candidates for admission to the College of Pharmacy must be (1) of good moral character; (2) at least seventeen years of age; (3) graduate of a first grade high school as defined in Ohio or its equivalent; (4) prepared to present to the University Entrance Examiner an entrance certificate issued by the Ohio Board of Pharmacy; (5) properly certified to the University Entrance Examiner by the authorities under whom the secondary educational qualifications were earned, (all preliminary educational qualifications
must be done in harmony with the approved plans of the Ohio Department of Public Instruction).

To enter any of the regular courses of study leading to a degree the candidate must (1) get an entrance permit from the University Entrance Examiner; (2) matriculate; (3) prepare a schedule of studies with the aid of an adviser and approval of the Dean; (4) pay tuition and fees as stated elsewhere in this catalogue.

When to Enter

The College of Pharmacy opens on Monday, September 7, 1925 and continues thirty-six weeks, with an intermission at Christmastide.

The student shall enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authority.

Students who are entitled to advanced standing will enter at the time arranged by the Dean.

Special students may enter at any time upon recommendation of the Dean and approval of the Entrance Committee.

ADVANCED STANDING

On completion of the various courses of study offered, the student will be marked as indicated under "General Information" of this catalogue.

Students from recognized Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing. Under no circumstances will students be received from other colleges who cannot furnish certificates of honorable dismissal.
### Degree: Pharmaceutical Graduate

#### FIRST YEAR

<table>
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<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>Physiology</td>
<td>Gen. Materia Medica</td>
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<tr>
<td>Gen. Inorganic Chem. I</td>
<td>Posology</td>
</tr>
<tr>
<td>Pharm. Arithmetic</td>
<td>Pharmaceutical Latin</td>
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<td>Pharm. Botany I</td>
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<tr>
<td>Spring</td>
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<tr>
<td>Pharm. Botany II</td>
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<td>Gen. Inorganic Chem. I</td>
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<tr>
<td>Pharmacy I or</td>
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<tr>
<td>Pharmacy VIII</td>
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#### SECOND YEAR

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<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>Pharmacognosy I</td>
<td>Pharmacognosy II</td>
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<tr>
<td>Pharmacy II or</td>
<td>Pharmacy III</td>
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<td>Pharmacy IX</td>
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| Spring                      |                             |
| Materia Medica III          |                             |
| Toxicology                  |                             |
| Quantitative Analysis I     |                             |
| Pharmc IV                   |                             |

At least 1728 clock-hours are required to complete this course, 648 clock-hours in lectures and recitations, and 1080 clock-hours in laboratory.

### Degree: Pharmaceutical Chemist

#### FIRST YEAR

<table>
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<th>Fall</th>
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<tbody>
<tr>
<td>Physiology</td>
<td>General Materia Medica</td>
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<tr>
<td>Gen. Inorganic Chem. I</td>
<td>Posology</td>
</tr>
<tr>
<td>Pharmaceutical Arithmetic</td>
<td>Pharmaceutical Latin</td>
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<tr>
<td>Pharmaceutical Technique</td>
<td>Gen. Inorganic Chem. II</td>
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<td>Pharmaceutical Botany I</td>
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| Spring                      |                             |
| Pharmaceutical Botany II    |                             |
| Gen. Inorganic Chem. III    |                             |
| Pharmacy I or               |                             |
| Pharmacy VIII               |                             |
# College of Pharmacy

## Second Year

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td></td>
<td>Pharmacognosy I</td>
<td>5</td>
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<tr>
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<td>Pharmacy II or</td>
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<tr>
<td></td>
<td>Pharmacy IX</td>
<td>5</td>
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</tbody>
</table>

**Spring**

- Materia Medica III  | 2⅓
- Toxicology          | 2⅓
- General Organic Chem. III | 5
- Pharmacy IV         | 5

## Third Year

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<tr>
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<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td></td>
<td>Materia Medica I</td>
<td>5</td>
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<tr>
<td></td>
<td>Quantitative Analysis I</td>
<td>5</td>
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<tr>
<td></td>
<td>Pharmacy V.</td>
<td>5</td>
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</tbody>
</table>

**Spring**

- Bacteriology               | 5
- Quantitative Chem. III     | 5
- Pharmacy VII or elective.  | 5

At least 2738 clock-hours are required to complete this course, 888 clock-hours in lectures and recitations and 1850 clock-hours in laboratory.

**Degree:** Bachelor of Science in Pharmacy

## First Year

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td></td>
<td>Zoology I</td>
<td>3</td>
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<tr>
<td></td>
<td>Physics IX</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>German or French</td>
<td>5</td>
</tr>
</tbody>
</table>

**Spring**

- Zoology III               | 3
- Physics XI                | 4
- German or French         | 5
- Gen. Inorganic Chem. III | 4

## Second Year

<table>
<thead>
<tr>
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<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td></td>
<td>Physiology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Gen. Organic Chem. I</td>
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<tr>
<td></td>
<td>Pharmaceutical Arith</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Pharmaceutical Tech.</td>
<td>2</td>
</tr>
</tbody>
</table>
### Spring
- Pharmaceutical Botany I... 5
- Pharmaceutical Botany II... 5
- Gen. Organic Chem. III... 5
- Pharmacy I or... 5
- Pharmacy VIII... 5

### THIRD YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>Pharmacognosy I... 5</td>
<td>Pharmacognosy II... 5</td>
</tr>
<tr>
<td>Quantitative Chem. I... 5</td>
<td>Quantitative Chem. II... 5</td>
</tr>
<tr>
<td>Pharmacy II or... 5</td>
<td>Pharmacy III... 5</td>
</tr>
<tr>
<td>Pharmacy IX... 5</td>
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</tbody>
</table>

### Spring
- Materia Medica II... 5
- Quantitative Chem. I... 5
- Pharmacy IV... 5

### FOURTH YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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</thead>
<tbody>
<tr>
<td>Materia Medica I... 5</td>
<td>Materia Medica III... 2½</td>
</tr>
<tr>
<td>Elective Chem. ... 5</td>
<td>Toxicology ... 2½</td>
</tr>
<tr>
<td>Pharmacy V... 5</td>
<td>Elective Chem. ... 5</td>
</tr>
<tr>
<td></td>
<td>Pharmacy VI... 5</td>
</tr>
</tbody>
</table>

### Spring
- Bacteriology... 5
- Elective Chem... 5
- Pharmacy VII... 5

At least 3350 clock-hours are required to complete this course, 1248 clock-hours in lectures and recitations and 2102 clock-hours in laboratory.
DESCRIPTION OF COURSES

Materia Medica Section

Physiology (Fall) Credit 5 Hrs.

A brief course in human physiology preparatory to the study of the action of drugs. The digestive, circulatory, respiratory and nervous systems are the chief subjects considered. Lectures and recitations, (M. W. F., 1:00) 3 hours. Laboratory (T. Th., 1:00-3:00) 48 hours.

General Materia Medica (Winter) Credit 1 Hr.

In this course the student becomes acquainted with the general classification of drugs and medicines. Classification is based upon dynamics. Lectures and recitations, (M. 7:30) 12 hours.

Pharmaceutical Botany I. (Winter) Credit 5 Hrs.

The aim of this course is to acquaint the student with the main groups of plants, their characteristics, and economic importance. The course is progressive, beginning with the lowest types, and ending with the highest. Lectures and recitations (M. W. F., 1:00) 36 hours. Laboratory, T. Th.) 48 hours.

Pharmaceutical Botany II (Spring) Credit 5 Hrs.

The cell, cell contents and general anatomy of the parts of the plant, such as root, stem, leaf, flower, fruit, and seed, are the subjects of this course. A few drugs from each classification will be considered. Lectures and recitation, 3 hours. Laboratory, 48 hours.

Posology (Winter) Credit 1 Hr.

This is a brief course intended to familiarize the first year student with the science of dosage. Lectures and recitations.

Pharmacognosy I (Fall) Credit 5 Hrs.

In this course the student is taught how to identify, select, and value drugs microscopically. He will learn the official names, habitat, and constituents of each drug studied. Lectures and recitations (M. W. F., 7:00) 36 hours. Laboratory, (T. Th., 7:00-9:30) 48 hours.

Pharmacognosy II (Winter) Credit 5 Hrs.

This is a continuation of Pharmacognosy I. Attention will be given to preservation, adulteration, and identification of powdered drugs. A liberal use of the compound microscope is required in the course. Lectures and recitations, (M. W. F., 7:00) 36 hours. Laboratory (T. Th. 7:00-9:30) 48 hours.

Materia Medica I (Fall) Credit 5 Hrs.

A course in inorganic Materia Medica. Special attention will be given to official names, physiological action and doses. The physical and chemical properties of these drugs will receive attention in so far as they influence their action. Lec-
tures, recitations, (M. W. F., 8:30) 36 hours. Laboratory (T. Th. 3:00-5:00) 48 hours.

Materia Medica II (Winter) Credit 5 Hrs.

This is a course in organic Materia Medica (vegetable). The organic drugs will be classified according to their action upon the human body. Attention will be given to official names, constituents, action and dosage. Lectures and recitations, (M. T. W. Th. F., 8:30) 60 hours.

Materia Medica III (Spring) Credit 2½ Hrs.

A course in organic Materia Medica (animal). These drugs will be classified zoologically. Attention will be given to official names, definitions, source, action, dosage. Lectures and recitations, (T. Th., 7:00).

Toxicology (Spring) Credit 2½ Hrs.

A study in the principles of poisoning, classification of poisons, and effects of each class. Lectures and recitations, (T. Th., 7:00) 30 hours.

Biological Assaying Credit 5 Hrs.

Attention will be given to biological assaying methods and standardization of the U. S. P. drugs that are most satisfactorily valued by this method. Lectures, recitations, 12 hours. Laboratory, 36 hours.

Bacteriology (Spring) Credit 5 Hrs.

A course in pharmaceutical bacteriology will be offered upon demand of a sufficient number of students. This is an introductory course dealing with general principles and simple technique.

Department of Chemistry

PROFESSORS SLEESMAN, HARROD, FERBRACHE
AND ASSISTANTS

The student is referred to pages 47 and 48 of this publication.

Pharmacy Section

Pharmaceutical Arithmetic Credit 5 Hrs.

A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, proportion, alligation, specific gravity and specific volume. Comparison of thermometer scales, are the chief topics. Special attention is given to the metric system of weights and measures and their relationship with the English system of weights and measures. Lectures and recitations, M. T. W. T. F., 9:30, 48 hours. Laboratory 24 hours.
Pharmaceutical Latin

A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to read prescriptions. Lectures and recitations, M. W. F., 10:30. 36 hours.

Pharmaceutical Technique

An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations, T. Th., 10:30. 24 hours.

Pharmacy I. Galenical

The chief topics of this course are waters, infusions, decoctions, syrups, mucilages, spirits, tinctures, fluid extracts, and other classes of preparations of quite similar nature. Lectures and recitations, M. W. F., 9:30. 36 hours. Laboratory T. Th., 1-4. 72 hours.

Pharmacy II. Galenical

This course is a continuation of Pharmacy I. Attention is given to those official preparations which require special skill and careful manipulation. Mixtures, emulsions, liquors and certain acids, are the chief topics. Lectures and recitations, M. W. F., 9:30, 36 hours. Laboratory T. Th., 8:30-11:30. 72 hours.

Pharmacy III. Dispensing

This is a course in extemporaneous pharmacy. Prescriptions, compounding and dispensing prescriptions, and incompatibilities are the chief subjects of this course. The student will be given a liberal opportunity to compound actual prescriptions. Lectures, M. W. F., 8:30. 12 hours. Recitations, 12 hours. Laboratory F., 8:30-11:30. 72 hours.

Pharmacy IV. Commercial

Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and business practice, are some of the subjects offered under this heading. See schedule for electives.

Pharmacy V.

Manufacture and standardization of inorganic pharmaceuticals. Lectures, M. 1:00. 12 hours. Laboratory, M. T. Th. F., 8:30-11:30. 120 hours.

Pharmacy VI.

Manufacture and standardization of tinctures, fluid extracts and extracts. Lectures M. 1:00, 12 hours. Laboratory T. W. Th. F., 8:30-11:30, 120 hours.

Pharmacy VII.

5 Hrs.

 Manufacture of pharmaceuticals on the commercial basis. Class and laboratory assignments may vary in length of time, due to range and nature of topics assigned. Inspection of certain manufacturing plants will be required.
Pharmacy VIII.  
Credit 5 Hrs.

Attention is given to the inorganic of the U. S. P., and N. F., from the standpoint of the pharmacist. General Inorganic Chemistry I and II are prerequisites. Lectures and recitations 36 hours. Laboratory, 72 hours.

Pharmacy IX  
Credit 5 Hrs.

A study in the organic chemicals and synthetics of the U S. P., and N. F. General Organic Chemistry I is a prerequisite. Lectures and recitations 36 hours. Laboratory 72 hours.

ELECTIVES

To more effectively reach the objective of certain students, electives may be chosen from the following departments: Law, Commerce, Modern Language, Biology, Teacher's Training or Pedagogy. (Note the description of these courses elsewhere in this catalogue).

Electives can not be substituted for any of the major subjects in the Materia Medica, Chemistry, or Pharmacy sections. In the three-year course, ten quarter hours may, upon approval of the Dean, be elected; in the four-year course, twenty quarter hours may be chosen.

REQUIREMENTS FOR GRADUATION

Every person upon whom a degree shall be conferred must meet the following conditions and requirements:

1. Good moral character.
2. Satisfactorily complete all prescribed work.
3. The last year must be spent in resident study in this college.
4. Quality points must equal the number of credit hours required.
5. Be present at the commencement exercises unless officially excused.
SCHOOL OF COMMERCE

EMMET ELIJAH LONG, Director
Aim

The School of Commerce aims to prepare young men and women to "do things" in the realm of commercial activity.

Location and Equipment

This School occupies the entire third floor of Lehr Memorial, equipped throughout with up to date fixtures and office furnishings for class use, Remington typewriters, Burroughs adding machine, posting machine and calculators, and all appliances needed in efficient instruction. The quarters are roomy, with abundance of light, ventilation and toilet conveniences.

The Courses of Study

The courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and administration or upon clerical, stenographic, secretarial or commercial teaching careers.

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending upon previous educational preparation, aptness and application; the two year course in Commerce, about six quarters; the Commercial Teachers' Training Course, six quarters; The Pre-Commerce Course, six quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

Students completing the Commercial Teachers’ Training course are granted a diploma with the rank, “Graduate of Pedagogy in Commerce;” persons completing the two year course are ranked “Graduate in Commerce.” Students completing the three quarter courses are certified as having completed the Bookkeeping and Stenographic Courses, respectively.
Special Students

The regular courses have been arranged for those who have completed high school or preparatory work. Students not having had such preliminary training, or those not caring to complete a prescribed course will be admitted as special students. Certificates showing amount of work completed will be issued to special students. These credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the two year course, and the Teachers' Training course are repeated each term.

In the Summer Quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue the course desired.

See calendar on the second page of the catalogue.

Situations for Students

Positions are not guaranteed, but the Employment Bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this except the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the School of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics.

University Advantages

The University offers to every student of the School of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of participating in literary work in the three literary societies; and the benefits of college environment and associations.
Commercial Teachers' Training Course

The Commercial Teachers' Training Course, outlined hereafter, meets the present legal requirements for accrediting, and the School is authorized to announce that the State Department will recognize all graduates and will grant, without further examination, a four-year provisional certificate to teach commercial subjects in the public high school.

Short Course in Bookkeeping

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<th>Second Quarter</th>
<th>Third Quarter</th>
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<tbody>
<tr>
<td>Accounting I.</td>
<td>Accounting II.</td>
<td>Com. Law</td>
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<tr>
<td>5</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>English I.</td>
<td>Bus. English</td>
<td>Accounting III</td>
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<tr>
<td>3</td>
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<tr>
<td>Economic Hist. I</td>
<td>Typewriting II</td>
<td>Salesmanship</td>
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<td>3</td>
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<td>Com. Arith.</td>
<td>Economic Hist.III.</td>
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<tr>
<td>Spelling</td>
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<tr>
<td>Phys. Ed.</td>
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<td>17</td>
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</tbody>
</table>

Students desiring credit for Bookkeeping done elsewhere must present the books representing the work done including the blanks or sets, or prove the amount and nature of the work done, or pass an entrance examination at the discretion of the instructor. This applies to all the schedules of the School.

56 hours required, 3 of which must be Physical Education.

Short Course in Stenography

<table>
<thead>
<tr>
<th>First Quarter</th>
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<th>Third Quarter</th>
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<tbody>
<tr>
<td>Stenog. I.</td>
<td>Stenog. II.</td>
<td>Stenog. III. and</td>
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<tr>
<td>5</td>
<td>5</td>
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<td>English II.</td>
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<td>Principles</td>
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</table>

53 hours required, 3 of which must be Physical Education.
SCHOOL OF COMMERCE

Two Year Course in Commerce

(Diploma—Graduate in Commerce. Prerequisite: A high school education.)

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Second Quarter</th>
<th>Third Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I.</td>
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<td>Accounting III.</td>
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<tr>
<td>3</td>
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<tr>
<td>Economic Hist. I.</td>
<td>Economic Hist. II</td>
<td>Economic Hist. III</td>
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</tr>
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<td>Accounting I.</td>
<td>Accounting II.</td>
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</tr>
<tr>
<td>5</td>
<td>5</td>
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<td>1½</td>
<td>5</td>
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<tr>
<td>2½</td>
<td>3</td>
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<tr>
<td>2</td>
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<tr>
<td>Phys. Ed.</td>
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<td>18</td>
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</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>First Quarter</th>
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<tbody>
<tr>
<td>Accounting IV.</td>
<td>Stenography II.</td>
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<tr>
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<td>Typewriting II.</td>
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<tr>
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<td>17½</td>
<td>Modern Language</td>
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<td>16½</td>
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<td>19</td>
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</tbody>
</table>

Economics may be substituted for Modern Language with consent of the Director.

Machine Bookkeeping and Calculator courses may be substituted for Accounting IV.

108 hours are required for graduation, 3 of which must be Physical Education. Students having completed part of the work in high school must take an equivalent number of hours of college work, to be selected by the Director.

Students pursuing the Two Year course are advised to arrange for remaining steadily at the work for two successive years, if possible beginning with the Fall Quarter.
Executive Secretarial Course

Prerequisite: Graduation from a first grade high school or its equivalent. Diploma Course.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Second Quarter</th>
<th>Third Quarter</th>
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</thead>
<tbody>
<tr>
<td>English I.</td>
<td>English II.</td>
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<td>French II.</td>
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<td>Penmanship</td>
<td>Penmanship</td>
<td>Salesmanship</td>
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<tr>
<td>Ed. Psychology</td>
<td>Elective</td>
<td>Ed. Psychology</td>
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</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Second Quarter</th>
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<tbody>
<tr>
<td>Stenography</td>
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<td>Stenography III.</td>
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<tr>
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<td>with Typewriting</td>
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<tr>
<td>Typewriting</td>
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<td>Economics</td>
<td>Economics</td>
<td>Sec. Duties</td>
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<td></td>
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</table>
| French                 | French                 | Commercial Cor-
|                        |                        | 3               |
| Bible                  | Business English       | response        |
|                        |                        | 3               |
| Spelling               | Bible                  |                 |
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|                        |                        | 18              |

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|                        |                        |                 |
|                        |                        | 19              |

110 hours required for graduation, 3 of which must be physical education.

French is an elective, and some other Modern Language may be substituted.

This course is a two-year program for those who have completed a high school course or its equivalent. It qualifies for secretaryships in educational institutions, business concerns, social and public organizations, as well as the more intimate work of the personal secretary to public and social leaders.
Commercial Teachers' Training Course

(Diploma—Graduate in Pedagogy in Commerce. Prerequisite: Graduation from a first grade high school or its equivalent.)

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>Second Quarter</th>
<th>Third Quarter</th>
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<tbody>
<tr>
<td>Educational Psychology ______ 2</td>
<td>Educational Psychology II ______ 2</td>
<td>Educational Psychology III ______ 2</td>
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<td>Accounting II ______ 5</td>
<td>Accounting II ______ 5</td>
</tr>
<tr>
<td>Penmanship ______ 2 1/2</td>
<td>Com. Arith. ______ 5</td>
<td>Salesmanship ______ 3</td>
</tr>
<tr>
<td>Rapid Calculation ______ 1 1/2</td>
<td>English II ______ 3</td>
<td>Business Org. ______ 3</td>
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<td>English I ______ 3</td>
<td>Phys. Ed. ______ 1</td>
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<td>Phys. Ed. ______ 1</td>
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<td>Phys. Ed. ______ 1</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td>First Quarter</td>
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<tr>
<td>Principles of Secondary Education I ______ 3</td>
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<tr>
<td>General High School Methods ______ 3</td>
</tr>
<tr>
<td>Stenography I ______ 5</td>
</tr>
<tr>
<td>Typewriting I ______ 2</td>
</tr>
<tr>
<td>Special Methods in Teaching Book-keeping ______ 3</td>
</tr>
<tr>
<td>Observation ______ 2</td>
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</tbody>
</table>

110 hours required for graduation, 3 of which must be Physical Education.
A Special Course in Commerce

No prerequisites. This course will be from one quarter to two years in length, designed for the man or woman desiring to go into business for himself. Enough Bookkeeping will be taught to take care of his own accounts, enough Typewriting to be able to operate a typewriter efficiently, enough English to write a good business letter, enough law to keep out of trouble, enough Economics to keep in touch with business conditions and any other subjects that may be wanted. Each quarter will be complete within itself. Courses arranged upon consultation with Director.

Description of Courses

**Accounting I.** This course, planned for beginners in Accounting, gives the student the fundamental principles of bookkeeping. He becomes acquainted with a variety of books used by a single proprietor conducting a retail business. Offered each quarter.

**Accounting II.** This is a partnership course, introducing features used in a modern office; the budget system is presented. Open to all students having completed Accounting I, or its equivalent. Offered each quarter.

**Accounting III.** A theoretical and practical course, dealing with the questions of the modern corporation. Special column corporation accounting books are used in connection with the Cash Journals. (Budget System). Offered each quarter.

**Business English.** A thorough course in practical business English, including postal and general office information. Required in all courses.

**Commercial Correspondence.** A continuation of work begun in Business English, with emphasis on collection, follow-up, adjustment, sales, credit and form letters.

**Spelling.** Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

**Advanced Arithmetic.** Classes in Advanced Arithmetic are formed in the College of Education in which students pursuing the short courses of the School of Commerce take a thorough review of that subject at the beginning of the course.

**Commercial Arithmetic.** Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.
Rapid Calculation. Drill in speed and accuracy in figures. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

Commercial Law. The essentials of Law from a business standpoint so presented as to enable one to know and defend his rights.

Shorthand. Thorough instruction in the principles by both individual and class methods, followed by practice in receiving dictation covering all lines of business, with speed, accuracy, phrase and word-sign drills, until the student is able to do practical office work.

The Gregg System is taught to all beginners. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation class and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the School of Commerce are required to take training in the operation of the typewriter. The Touch system is taught, the instructor supervising the work during every period. Drills are given in each phase of the work required of typists.

Typewriting is required to be done in the Typewriting Department. Those taking Typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $4.00 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Director.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor, for the Deans of the University, Executive Secretary and others requiring the service of secretaries from time to time.

Penmanship and Lettering. The Zaner system of writing is used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the School of Commerce are admitted to the classes in business writing without extra charge.

Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

Machine Bookkeeping. With a Burroughs Bookkeeping Machine students are trained in the Mechanical Bookkeeping systems which are rapidly supplanting pen and ink methods in thousands of banks and business offices of the country.
Calculating Machine Work. The school is equipped with a battery of Burroughs Calculators. These machines are used in offices of thousands of business concerns for handling all kinds of figure work, also high school installations.

Without previous business experience of any kind students are able to become expert Calculator operators after a very brief course of study.

Professional Subjects in Education. For those preparing to teach commercial subjects. Principles of education, history of education, educational psychology, school management, school law, general and special methods, observation and practice teaching, and such other subjects as are required by the State Department of Public Instruction. For detailed description, see College of Education.

College of Law Subjects. Sales, Contracts, Partnership, Agency. See College of Law.

Liberal Arts Subjects. Psychology, Sociology, Economics, Spanish, German, French. See College of Liberal Arts.

Pre-Commerce Course, see College of Liberal Arts.

TUITION

General penmanship free to students of all departments.

All students in the School of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this department see Expenses, earlier pages of this catalogue.
A. D. JUILLIARD SCHOOL
OF MUSIC

FREDERICK THOMAS KILLEEN, Director
Aim

The music department of the Ohio Northern University stands ready to give solid, fundamental training in the various branches and to advance its students to a graduation creditable to them and the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The lower floor of Music Hall is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms. They are well lighted, heated and ventilated and equipped with pianos of standard make.

Lehr Auditorium, equipped with a Chickering concert grand piano and a splendid pipe organ, furnishes an excellent place for public recitals and concerts.

DESCRIPTION OF COURSES

Voice

First Year. A thorough knowledge of breathing and breath control; exercises in breathing and tone placing; in agility and relaxation of muscles; Ferdinand Sieber's eight measure studies and the ten studies, Op. 44-49; simple songs, carefully selected to assist the pupil in conquering his difficulties.

Second Year. Exercises in agility, uniting of the tones; the swell, mezzo voce, embellishment; studies in the Masterpieces of Vocalization, which is a graded series of vocal studies selected from the works of all the great masters of singing; songs of suitable grade.

Junior. Advanced exercises in agility covering all kinds of scales and chords in both major and minor; Mezzo voce, trill, exercises for strengthening the voice. Advanced work in the Masterpieces of Vocalization.

Senior. Daily exercises. The majority of the time is taken in learning and mastering the graduating recital numbers.

Throughout the course carefully selected songs and arias from the best American, English, French and Italian writers are used. While songs in foreign tongues are often taught in
the language in which composed, special care is taken to give
the pupil a clear and intelligible enunciation of the English
language.

It is advised that voice pupils study French and Italian.

Pianoforte

Instruction in piano playing involves a special adaptation
to the needs of the individual pupil. A minute study of each
student's deficiencies and previous habits of work is made and
technical studies and selections best adapted to his needs are
given him. Music is a means of intellectual culture and artistic
enjoyment; the works of the best masters are therefore
employed through all grades.


Courses for Children. The object of these courses is to
induce parents to send their children to school at an early
age, where they can be under competent instruction from the
start, and where they may be assured that no time will be
lost in entering upon their advanced work.

The policy of the school throughout is not to adhere strict-
ly to any one so-called "method"; the instructors, after care-
ful study, have selected the best features in various methods,
and offer to the students a course of training unexcelled in
any conservatory.

It is the endeavor to make the study of piano interesting
to the child and to keep practice from becoming mere drudg-
ery. High ideals are set before him and the foundation is laid
for a broad musical knowledge.
Organ

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this particular school.


Violin

First Year. Violin methods of Polaniiski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O’Senick, School of Bowing, Technique; Solos by Dancla, Sitt, Bohm, Seitz, et cetera.

Junior. Etudes of Blummenstengel, Mazas, Dont, Technique Preparatoire of Sevcik; Centertos of DeBeriot, Viotti, Kreutzer; Solos, Obertass of Wieniawski, Andante and Scherzo of David, Ballade at Polonaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Kreutzer, Florillo and Rode; Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas or Handel and Beethoven; Solos, Zigennerweisen of Sarasate; Mazurka of Musin; Romances of Beethoven; Suite of Sinding.

Theory, History and Ear Training

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Acoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, “Theory of Music” by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.
The Course in Ear Training is twenty-four weeks long, and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficult problems in both rhythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the Fall Quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginning to its present date. Much time is devoted to the lives of the greatest composers and to a careful study of representative work of each. Due consideration is also given to the development of the larger forms. The text used is "History of Music" by W. S. Pratt and this is supplemented by letters and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacock and Lehman, supplemented with collateral texts and reference books. The four quarters of work in this subject required for graduation are as follows:

First Quarter. A thorough knowledge of keys, scales, signatures, intervals, and triads gained by frequent oral and written drill. Simple part writing from given basses and sopranos. Playing of cadences at the piano.


Fourth Quarter. Modulation to remote keys. Enharmonic changes. Suspensions, retardations, appogiaturas, anticipation, passing tone, embellishment, pedal point.

Counterpoint

Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species. Completion of three part Counterpoint; four part Counterpoint; Imitation. The textbook used in Counterpoint is "Simple Counterpoint" by F. J. Lehmann, Prerequisite: Harmony I, II, III, IV.
Harmonic Analysis

The one quarter of work of this subject required for graduation is devoted to a study of the text "Harmonic Analysis" by F. J. Lehmann.

GRADUATION

To complete any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 3 quarters; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; enough Piano to play accompaniments.

Piano. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Voice, 3 quarters; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Harmonic Analysis, 1 quarter; Counterpoint, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-Training, 2 quarters; Piano, 3 quarters.

Post Graduate Work is given in all departments.

TEACHERS' COURSE

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduation recital, but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours of pedagogical work.
### Public School Music

**Supervisor's Course**

**Certificate, Graduate in Public School Music**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Quarter</strong></td>
<td><strong>Fall Quarter</strong></td>
</tr>
<tr>
<td>Theory of Music</td>
<td>Advanced Singing</td>
</tr>
<tr>
<td>College English I</td>
<td>Advanced Piano</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>Harmony</td>
</tr>
<tr>
<td>History of Music</td>
<td>Methods in Public School Music</td>
</tr>
<tr>
<td>Singing</td>
<td>Principles of Teaching</td>
</tr>
<tr>
<td>Piano</td>
<td>Observation and Practice</td>
</tr>
<tr>
<td>Physical Training</td>
<td>Chorus</td>
</tr>
<tr>
<td>Chorus</td>
<td><strong>Winter Quarter</strong></td>
</tr>
<tr>
<td>Ear Training</td>
<td>Advanced Singing</td>
</tr>
<tr>
<td>College English II</td>
<td>Advanced Piano</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Harmony</td>
</tr>
<tr>
<td>History of Music</td>
<td>Methods in Public School Music</td>
</tr>
<tr>
<td>Singing</td>
<td>Principles of Teaching</td>
</tr>
<tr>
<td>Piano</td>
<td>Observation and Practice</td>
</tr>
<tr>
<td>Physical Training</td>
<td>Chorus</td>
</tr>
<tr>
<td>Chorus</td>
<td><strong>Spring Quarter</strong></td>
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<tr>
<td>Ear Training</td>
<td>Advanced Singing</td>
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<tr>
<td>College English III</td>
<td>Advanced Piano</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Harmony</td>
</tr>
<tr>
<td>History of Music</td>
<td>General Methods in Music</td>
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<tr>
<td>Singing</td>
<td>History of Education</td>
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<tr>
<td>Piano</td>
<td>Modern</td>
</tr>
<tr>
<td>Physical Training</td>
<td>Observation and Practice Teaching</td>
</tr>
<tr>
<td>Chorus</td>
<td>Chorus</td>
</tr>
</tbody>
</table>

This is being changed to a four year course. A Supervisor of Music has been added to the faculty but the change comes too late for this issue of the catalogue.
CREDITS IN OTHER DEPARTMENTS

Members of the Choral Society who are students in the Colleges of Liberal Arts and Education are given three hours credit for three years work. They are earned as follows: One hour credit is earned the first year but is not given until the completion of the second year when two hours of credit are given. A student singing but one year would receive no credit. The third year a third hour of credit is given.

These credits may be earned by members of both Glee Clubs who are in good standing in the Choral Society.

RECITALS

Pupils' Recitals. Pupils' Recitals are held usually once a week to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music, well performed.

MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of both university students and townspeople and is open to all who love good music. The society meets every Monday evening that school is in session during the first three quarters. The fees charged are nominal. The society aims to give two public performances each year.

Men's Glee Club. of the best voices in the University is trained in the old traditional glee and the local songs and sent on a tour of the country.

Girl's Glee Club takes up the same line of work as that done by the boys.

Orchestra. A large orchestra is being organized to take up standard works of the great composers, and to play at the concerts of the Choral Society.
Band. A splendid band under the direction of Sig Michael Mazzulla is maintained, affording an opportunity for study and practice to students playing a brass or reed instrument.

Choir. Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits. The churches of the town welcome students to their choirs.

RUDIMENTS AND SIGHT SINGING

A course in Rudiments and Sight Singing is given twice a year—in the Fall Quarter and in the Summer Quarter. The class meets twice a week and is free to all university students.

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lessons a week ........................................................ $30.00
One lesson a week .......................................................... $15.00
For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week .......................................................... $18.00
One lesson a week .......................................................... $9.00
Single lesson .......................................................... $1.75
Public School Music .......................................................... $75.00

Children’s Department

Piano, quarter of twelve weeks, two lessons a week .......................................................... $19.00
One lesson a week .......................................................... $10.50
Single lesson .......................................................... $1.00

Class Lessons

Harmony, per quarter .......................................................... $9.00
Counterpoint, per quarter .......................................................... 9.00
History of Music, per quarter .......................................................... 9.00
Theory of Music, per quarter .......................................................... 9.00
Ear Training, per quarter .......................................................... 9.00
EXPENSES

Piano rent, one hour a day, per quarter  $3.50
Rent of Pipe Organ for practice, one hour a day per quarter  $15.00

Pupils registering within the quarter are charged for one lesson more than is given them.

SCHOLARSHIPS

Friends of the institution have made four music scholarships available. Two of these are given by Mrs. Avanel C. Stambaugh. The name of the donor of the other two is withheld by request. The award is made by the President of the University and the Director of the School of Music. Preference is given to those who wish to take up the teaching of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses in Voice, Piano, Organ or Violin. The graduation fee is $7.00.

Certificates are awarded to students completing the Teachers' Course in any of the above subjects, and to those completing the course in Public School Music. The Graduation fee in these courses is $2.00.

REGULATIONS

1. All tuitions payable in advance.
2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.
3. Credit will be given for work done elsewhere, the pupil being permitted to enter the grade for which he is prepared.
4. Practice rooms in the Music Building are provided for non-resident pupils.

REFUNDING

See earlier pages of this catalogue.
SCHOOL OF EXPRESSION

MAE DEMING McCOPPIN, Director
Introductory

Mrs. McCoppin is ably assisted by Major A. B. Cliffe Deming, M. A., B. O. Major Deming is a graduate of the Emerson College of Oratory, Boston, Mass., and of Ohio Northern University. He has also had many years experience in teaching, and platform art.

Special in Courses 4, 5, 6 and 7.

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lecturers, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of expression. For this reason, expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student.

In selecting an institution for development in expression, the method of teaching employed deserves careful consideration. The best instruction is founded upon nature's method of causing expression—the mental process. Well established laws of psychology and pedagogy are employed, securing a steady "growth from within." What is learned here will not have to be unlearned later. For insincerity and affectation which receive justifiable criticism, there is substituted fuller appreciation of literature and aid in creating a desire to present these new found beauties in a true spirit of service.

The fact that the School of Expression is a part of the Ohio Northern University gives its students many advantages that come from university residence, participation in various college activities and opportunity of pursuing other studies with their expression course. Students in other courses can also take any part of the expression suited to their needs, after consultation with the Director, or Principal of the School of Expression.
Courses

The courses may be grouped under two general classes.

A. **General Culture**—for those desiring to meet the demands of today’s social intercourse. Sight Reading, Mythology, Voice Training, Breathing, Physical Culture, Literary Interpretation of Prose and Poetry, Extempore Speaking, Dramatic Training, Pantomime, Gesture and 45 Private Lessons.

B. **Professional Culture**—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact, all who aim to profit by any form of Speech Art. This course includes all subjects under the first course and Theory in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and Interpretation of Merchant of Venice, As You Like It, and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work in all departments and 90 Private Lessons.

1. **General Culture.** To meet the needs of those who wish to extend the sphere of their influence.

2. **Public Readers.** To develop students who meet the demand for the various kinds of entertainment; an enjoyable and profitable profession.

3. **Teachers of Expression.** Teachers with a mission are needed in every locality and they make brighter the lives of all who come under their influence.

4. **Public Speakers.** This course is to develop original thinking and persuasive presentation in the presence of an audience. It is especially helpful to Preachers, Lawyers, Teachers and Lecturers, but is so arranged as to meet the present day needs of all who desire or are required to speak before others.

5. **Teachers of Public Speaking.** This course includes parts of Courses 1, 2, 3, and all of 4. It is to supply the demands of Y. M. and Y. W. C. A.’s, High Schools and Colleges.
The equivalent of College Entrance Requirements is necessary to enter this course.

6. Dramatic Art. Dramatic Construction, characterization and stage business are studied from the standpoint of interpretation. Plays are presented before the entire student body. Membership in the Northern Players is necessary for this course. There is also a Chapter of Theta Alpha Phi, a National Honorary Dramatic Fraternity to which those meeting the requirements may be elected.

7. Dramatic Coaching. This course includes part of Courses 2, 3, 4, 5, and all of 6. It is to meet the increasing demand for competent coaches for amateur plays by high schools, literary clubs, etc.

8. Fencing. Courses may be had in either Foil or Sabre Fencing. This is the knightliest of sports, combining exercise with amusement. The body acquires ease, grace and suppleness, while the judgment, eye and nervous instinct, are thoroughly cultivated. The instructor, Major Deming, in addition to his military experience, has had special instruction from the foremost exponents of French and Italian methods.

9. Electives. Those not desiring to register in any prescribed course may, with the advice of the Director of Expression, select parts of various courses, either in class or private lessons, to suit their needs.

NOTE: Students completing any of the teachers' courses are required to do practice teaching under supervision.

Children's Classes

On Saturday afternoon and at other times, classes in vocal training, reading, recitation and juvenile plays are offered.

Public Speaking

Practical courses are given to speakers to develop the power to think when on their feet, and secure not only a vocabulary, but control of voice modulations and pantomime actions. The student is assigned studies to awaken a true ideal of oratory. These develop mental power and grasp, logical method, and control of feeling as well as of voice and body.
Problems in Expression

Short passages, sentences, or phrases, original and selected, are rendered by students to stimulate the creative actions of mind, body and voice in natural unity.


Recitals and Contests

The school offers the students many opportunities of appearing before public audiences as readers, orators, debaters and public speakers in general. A goodly number of programs are arranged every year in the University and town, to all of which students are eligible. In addition, the students are expected to appear in frequent recitals given by the School of Expression.

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University. The degree of Bachelor of Oratory is granted to those completing a three-year course, provided they hold a high school diploma or its equivalent.

EXPENSES

Tuition

Class Lessons, per quarter-----------------------------$15.00
Private Lessons, per quarter (15 lessons)-----------15.00
Public Speaking, per quarter-------------------------5.00
Class and Private Lessons and Public Speaking------30.00
Private Lessons, single lesson----------------------1.25
Textbooks, stationery, et cetera, per year, about-----5.00
SCHOOL OF FINE ARTS

LEAH MILDRED BROWN, Director
Purpose and Value

The cultural effect of a study of the fine arts can scarcely be overestimated. It opens the eye to form and color as nothing else can do; it trains the hand, refines the taste, develops the creative faculty, stimulates the imagination, and cultivates accuracy of observation, and an appreciation of what is in the world about us.

President Eliot, of Harvard, has said, "I have recently examined all the courses offered by the University and I find but one (the course of theology) in which a knowledge of drawing would not be of immediate value (and even then I think it might help in some cases). The power to draw is greatly needed in all the courses and absolutely indispensable in some of them. A very large proportion train the power to see straight and do straight, which is the basis of industrial skill."

COURSES OF INSTRUCTION

I. Preparatory Classes. Drawing from simple objects where special attention is given to correct seeing of form and proportion.

II. Modeling of simple objects to give a comprehensive study of light and shade values.

III. Drawing of interiors to give a systematic training in perspective drawing.

IV. Painting Classes. In either oil, water color or pastel, from still life and nature. Outdoor sketching in season.

V. Decoration of China. In the realistic and conventional.

VI. Stencilling.

VII. Indian Basketry.

VIII. Normal Courses. For public school teaching.

COST OF INSTRUCTION

Oil, Water, China, and Pastel Painting, course of 24 lessons, each $12.00

Freehand Drawing, per quarter 3.00

For detailed information, address the Director.
PHYSICAL EDUCATION AND INTER-COLLEGIATE ATHLETICS

J. OTTO NEWTON, Director
OHIO NORTHERN UNIVERSITY

Assistants For Men: Claude B. Sharer, Jr.
Benjamin Roderick.

Assistant For Women: Verle-Marie Holt.

Physical Education is a required subject of every student in the University for the first half of his college course. The work of this Department seeks to develop muscular co-ordination, health habits, habits of exercise and capacities for leadership and ethical qualifications for departmental administration. Each student is given a physical examination and corrective exercises if needed are outlined, while the regular gymnasium classes are organized and administered to the end that the highest degree of health and physical efficiency may be acquired and maintained throughout the college course. It is required that the courses for advanced classes be open to such students only as have completed the elementary courses. The entire department is graded systematically and progressively.

Course No. 1
Elementary Physical Education

Two hours a week. One hour credit.
Correction of posture and physical defects, prescribed exercises for definite physical inefficiency and deficiency and fundamentals of theory and practice in calisthenics and recreational play ground activities.

Course No. 2
Advanced Course

Two hours each week. One hour credit.

Course No. 3—Elective
Departmental Administration and Organization

Three hours each week. One hour credit.
This teachers' course will deal with personal hygiene, physical diagnosis, advanced gymnastics, theory and practice of teaching physical education.
SCHOOL OF PHYSICAL EDUCATION

In addition to the courses suggested above, this department will have general supervision of the organization of the inter-class, intra-mural, inter-society and inter-fraternity athletics. A personal efficiency test will be given each year and in order to secure a passing credit in this work, a definite advancement must be noted as the result of these tests. Course Three is elective and open to those who have completed Courses One and Two.

PHYSICAL DIRECTORS’ COURSES

Bachelor of Science in Physical Education

Admission requirements for this four year course leading to the degree of Bachelor of Science in Physical Education are identical with those of the College of Liberal Arts. The basis of the course is the required work of the College of Liberal Arts, with majors in Education and Physical Education. Graduates holding this degree will receive a state high school provisional certificate, permitting them to teach not only physical education but also many of the general high school subjects. The course qualifies for positions in educational institutions and is sufficiently comprehensive to meet the needs of those who wish to qualify for positions as special instructors in Young Men's and Young Women's Christian Associations, colleges, high schools and playground activities; in short, preparation for the physical directorate, athletic coaching and supervision. Students hold their registration in the College of Liberal Arts and are subject to the general regulations of that college.
## FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>English 2</td>
<td>English 2a or 22</td>
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<td>Zoology 1</td>
<td>Zoology 2</td>
<td>Zoology 3</td>
</tr>
<tr>
<td>Latin</td>
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<td>Latin</td>
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<tr>
<td>Ed. 1</td>
<td>Ed. 2</td>
<td>Base Ball</td>
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<tr>
<td>Foot Ball Coaching</td>
<td>Basket Ball</td>
<td>Track Coaching</td>
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<td>Girls</td>
<td>Coaching</td>
<td>Calisthenics</td>
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## SECOND YEAR

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<td>English 11 or 23</td>
<td>English 12 or 16</td>
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<td>Psychology 1</td>
<td>Psychology 2</td>
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<td>Comp. Anatomy</td>
<td>Mammalian</td>
<td>Embryology</td>
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<td>Educational Games</td>
<td>Anatomy</td>
<td>Playground</td>
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<tr>
<td>Coaching Football</td>
<td>Theory of Exercise</td>
<td>Supervision</td>
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<td>Field Hockey for Girls</td>
<td>Exercise and Play</td>
<td>Coaching Base</td>
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<td>Coaching Basket</td>
<td>Ball and Track</td>
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## THIRD YEAR

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<td>History 15</td>
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<td>Prin. of Education</td>
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<td>Apparatus Work</td>
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<td>Methods in P. E.</td>
<td>Observation</td>
<td>Prac. Teaching</td>
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## FOURTH YEAR

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<tbody>
<tr>
<td>Sociology 1</td>
<td>Sociology 2</td>
<td>Sociology 5</td>
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<td>Bible 1</td>
<td>Bible 2</td>
<td>Ethics</td>
</tr>
<tr>
<td>Hygiene 1</td>
<td>Hygiene 2</td>
<td>First Aid</td>
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<tr>
<td>Physical Diagnosis</td>
<td>Mental and Physical Tests</td>
<td>Corrective Gymnastics</td>
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<td>Departmental School Admin.</td>
<td>School Admin.</td>
<td>School Admin.</td>
</tr>
<tr>
<td>Comparative Coaching</td>
<td>Coaching</td>
<td>Comparative</td>
</tr>
</tbody>
</table>

Senior practical work and teaching two hours each quarter.
DIPLOMA COURSE

Prerequisite: Graduation from a first grade high school or its equivalent.

This course is a condensed two-year normal program of special preparation for those who wish to prepare themselves for the physical directorate and athletic coaching.

The Physical Director's Course outlined hereafter, meets the present legal requirements for accrediting, and the school is authorized to announce that the State Department of Education will recognize all having completed this course and will grant, without further examination, a special certificate to teach Physical Education in public high schools and educational institutions.

FIRST YEAR

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>Physiology</td>
<td>Ed. Psych. II.</td>
<td>Ed. Psych. III.</td>
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<td>Football</td>
<td>Playground Act.</td>
<td>Mass Games and</td>
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<tr>
<td>Calisthenics I.</td>
<td>Calisthenics II.</td>
<td>Playground Act.</td>
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<tr>
<td>Electives</td>
<td>Basketball</td>
<td>Baseball &amp; Track</td>
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<td></td>
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<td>Schoolroom games</td>
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SECOND YEAR

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<td>Spec. Meth.</td>
<td>Dept. Meth. in</td>
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<tr>
<td>Spec. Meth.</td>
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<td>Adm.</td>
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<td>Kinesiology</td>
<td>Hygiene I.</td>
</tr>
<tr>
<td>Swedish Gym.</td>
<td>Basketball</td>
<td>Baseball &amp; Track</td>
</tr>
<tr>
<td>Football</td>
<td>Boxing &amp; Wrest.</td>
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</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td></td>
</tr>
</tbody>
</table>

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In addition to the above outlined course, each student is required to do at least ten hours of Observation and Practice Teaching, as may be arranged for him by the Director.

110 hours required for graduation.
Inter-Collegiate Athletics

DR. NEWTON, MR. RODERICK, MR. SHARER

Ohio Northern has been a member of the Ohio Conference of Colleges in Athletics, commonly known as the "Big Six," since 1916, and an enviable reputation has been gained and maintained upon the "Simon Pure" basis of the quality of her teams and the character of her representatives in inter-collegiate athletics. In football, basketball and baseball, she has invariably been rated among the stronger colleges of the State, and just now the outlook for the future is most promising. A new athletic field of ample proportions provides equipment and space for a good diamond, football gridiron, tennis courts, and running track. The equipment of the varsity teams and the addition of assistants to the coaching staff insures a careful training and development of the "Varsity" in all sports. In fact, Ohio Northern offers the widest opportunity possible for outdoor sports and takes just pride in maintaining varsity teams of the highest order.

Courses in Varsity Coaching and Physical Education

During the fourth quarter, commonly known as the Summer Quarter, the department of physical education offers a six weeks course in coaching in various sports: Football, basketball and track. These courses will cover the fundamentals of each sport; team training, massage and care of injuries, the science of building plays, discussion of the systems now in use by the major coaches in the country, in addition to fundamentals of physical education and practical work necessary to prepare men and women to handle this department in all high schools and graded schools. This entire course will be under the supervision of the director and his assistants. Fuller specifications as to the work will be furnished upon application.
DEGREES CONFERRED

HONORARY DEGREES

Bishop Theodore S. Henderson (LL. D.) —— Cincinnatti, O.
George H. Heiser (D. D.) —— Westerville, O.
Judge Edward S. Matthias (LL. D.) —— Columbus, O.

CLASS OF 1925

President —— E. Paul Lynch
Secretary —— Bertha Ray
Vice President —— Frank Haley
Treasurer —— W. D. Perkinson
Valedictorian —— Mildred Doty

COLLEGE OF LIBERAL ARTS

Cussen, Paul C. (A. B.) —— Antwerp, O.
*Doty, Mildred (A. B.) —— Benton Ridge, O.
Elzay, W. Otto (A. B.) —— Ada, O.
Fallquist, Albert (B. S.) —— McKeesport, Pa.
Freeman, Marion J. (A. B.) —— Ada, O.
Guyton, Donna (A. B.) —— Alger, O.
Haley, Frank (A. B.) —— Tiffin, O.
Hickman, John (B. S.) —— Monroe, Mich.
Irey, Genevieve (A. B.) —— Ada, O.
Lowrie, Ada Campbell (A. B.) —— Ada, O.
*McPherson, Edna (A. B.) —— Lima, O.
Middleton, L. S. (A. B.) —— Cable, O.
*Mikesell, Homer (A. B.) —— New Paris, O.
Miller, Stanley (A. B.) —— Lima, O.
Minion, Lester R. (A. B.) —— Chicago, Ill.
Morris, Ruth (A. B.) —— Ada, O.
Sager, Prosper (A. B.) —— Ada, O.
Sharer, C. B. (B. S.) —— Bucyrus, O.
Storer, Thelma (A. B.) —— Ada, O.
Vannorsdall, Howard (A. B.) —— Jeffersonville, O.
Wahl, Irene (A. B.) —— Payne, O.
Warner, C. A. (A. B.) —— Asheville, O.
Whiteman, S. Lee, Jr. (A. B.) —— Creston, O.

COLLEGE OF EDUCATION

Bowers, Ruby (G. Ped.) —— Williamstown, O.
*Bailey, Basil A. (B. S. Ed.) —— Greenville, O.
Buchanan, Doris (B. S. Ed.) —— New Bremen, O.
Breese, Mildred (G. Ped.) —— Marion, O.
Carter, Harriet (G. Ped.) —— Ada, O.
Davis, Blanche (G. Ped.) —— Ontario, O.
Duckworth, Velma (G. Ped.) —— Sunbury, O.
Pfeising, Bernice (G. Ped.) —— Millersburg, O.
Griffith, Leola (G. Ped.) —— Columbus Grove, O.
Hickie, Anna (G. Ped.) —— Forest, O.
Houser, Randall (G. Ped.) —— Dola, O.
Hover, Olive (B. S. Ed.) —— Andover, O.
Jackson, Dorothy (G. Ped.) —— Rockford, O.
Jones, Lola (B. S. Ed.) —— Conway, O.
*Kelly, Helen (B. S. Ed.) —— Ada, O.
Miller, Margaret (B. S. Ed.) —— Olmstead Falls, O.

* Honor Student.
Miser, J. D. ........................................ (B. S. Ed.) .......... Amsterdam, O.
Marshall, Devona ................................ (G. Ped.) ............... Ada, O.
Martin, Irnie ....................................... (G. Ped.) .......... Rising Sun, O.
Meranda, Hazel ..................................... (G. Ped.) .......... Ada, O.
Morris, Leona ....................................... (G. Ped.) .......... Ada, O.
Myers, Estella ...................................... (G. Ped.) .......... Marion, O.
Norris, Letha ....................................... (G. Ped.) .......... Ada, O.
Northrup, Verona .................................. (G. Ped.) .......... Ada, O.
Perkinson, W. D. ................................... (B. S. Ed.) .......... Portsmouth, O.
Perfect, Mildred ................................... (G. Ped.) .......... Sunbury, O.
Raudabaugh, Daisy Belle ......................... (G. Ped.) .......... St. Marys, O.
Rose, Hope ........................................... (G. Ped.) .......... Alger, O.
Scott, Norma ....................................... (G. Ped.) .......... Ironton, O.
Stanley, Ethyl ...................................... (G. Ped.) .......... Ironton, O.
Steadman, Phyllis .................................. (G. Ped.) .......... New Paris, O.
Stineman, Glenna .................................. (G. Ped.) .......... Dola, O.
Sweeney, Marie ..................................... (G. Ped.) .......... Lima, O.
Walter, Z. S. ........................................ (B. S. Ed.) .......... West Ashville, N. C.
*Willeke, Viola .................................... (B. S. Ed.) .......... Dola, O.
Welling, Luella .................................... (G. Ped.) .......... Kenton, O.
Wollam, Mildred ................................... (G. Ped.) .......... Ada, O.

COLLEGE OF ENGINEERING

Allen, H. Neal ..................................... (B.S.C.E.) .......... Ripley, N. Y.
Beck, Albert D. .................................... (B.S.E.E.) .......... Aurora, N. Y.
Brownell, F. B. .................................... (B.S.M.E.) .......... Sag Harbor, N. Y.
Berry, J. M. ........................................ (B.S.C.E.) .......... Richwood, O.
Berry, W. J. ........................................ (B.S.C.E.) .......... Jacobsburg, O.
Bingham, Milton H. ............................... (B.S.C.E.) .......... Schenectady, N. Y.
Cadwell, Darius .................................... (B.S.M.E.) .......... Cleveland, O.
Cotner, Walter W. ................................... (B.S.E.E.) .......... Lima, O.
Canto, Humberto .................................... (B.S.C.E.) .......... New York, N. Y.
Chacey, L. A. ........................................ (B.S.C.E.) .......... Cuyahoga Falls, O.
Cleavinger, D. S. ................................... (B.S.C.E.) .......... Trinidad, Co.
Dearthick, Stanley ................................ (B.S.Ch.E.) .......... Ada, O.
Durst, Ross .......................................... (C. E.) .......... Akron, O.
Fresen, M. H. ....................................... (B.S.E.E.) .......... New Britain, Conn.
Pulks, Jas. K. ....................................... (B.S.E.E.) .......... Dunkirk, O.
Punk, Paul ............................................ (B.S.E.E.) .......... Ada, O.
Gallupoo, Orren .................................... (B.S.C.E.) .......... Elida, O.
Garcia, E. B. ....................................... (B.S.C.E.) .......... Haviland, O.
Gehr, Ralph ......................................... (B.S.M.E.) .......... Buenos Aires, Argentine, S.A.
Harkness, F. B. ..................................... (B.S.M.E.) .......... Pavia, Iloilo, P. I.
Hover, E. M. ........................................ (E. E.) .......... Struthers, O.
Heywood, Russell ................................. (B.S.E.E.) .......... Wapakoneta, O.
Hillery, Archie ..................................... (B.S.C.E.) .......... Lima, O.
Kigar, Don F. ...................................... (B.S.E.E.) .......... Liberty Center, O.
*Kohlmeier, B. P. .................................. (B.S.Ch.E.) .......... Salamanca, N. Y.
Prichard, L. W. ..................................... (B.S.C.E.) .......... Ravenna, O.
Roberts, C. G. ...................................... (B.S.E.E.) .......... Ada, O.
Ring, Jos. M. ....................................... (B.S.E.E.) .......... Lima, O.
Reading, W. J. ..................................... (B.S.M.E.) .......... West Falls, N. Y.
Shaneley, Fred D. .................................. (B.S.E.E.) .......... Conover, O.
Seiffert, Marvin J. ............................... (B.S.E.E.) .......... New Carlisle, O.
<table>
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<tr>
<th>Name</th>
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<td>Sprankel, Geo.</td>
<td>(B.S.E.E.)</td>
<td>Shinrock, O.</td>
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<td>Swinehart, A. L.</td>
<td>(B.S.E.E.)</td>
<td>Wapakoneta, O.</td>
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<td>Schaeublin, L. F.</td>
<td>(B.S.C.E.)</td>
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<td>Shultz, Ross</td>
<td>(B.S.C.E.)</td>
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<td>Shappell, C. J.</td>
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<td>Thompson, Gerald E.</td>
<td>(B.S.E.E.)</td>
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<td>*Woolever, A. E.</td>
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<td>*Zoll, Wilbur</td>
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<td>Zung, Yeh Fu</td>
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<td>Shanghai, China</td>
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**COLLEGE OF LAW**

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<td>Bender, William</td>
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<tr>
<td>Carlyle, K. M.</td>
<td>(L.L. B.)</td>
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<td>Courtney, George</td>
<td>(L.L. B.)</td>
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<td>Cunningham, J. B.</td>
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<td>Davis, David E.</td>
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<td>Evans, T. W.</td>
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<td>Grappy, De Vere</td>
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<td>Klein, Carl F.</td>
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<td>*McGowan, R. J.</td>
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<td>*Meredith, H. J.</td>
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<td>Schwemer, Carter</td>
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<td>*Stein, Harry</td>
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<td>Swerlein, Thornton</td>
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<td>Weygandt, Vernon</td>
<td>(L.L. B.)</td>
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**COLLEGE OF PHARMACY**

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<th>Name</th>
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<tr>
<td>Bache, Herbert</td>
<td>(Ph. G.)</td>
<td>Lorain, O.</td>
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<td>Baker, J. F.</td>
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<td>Columbus, O.</td>
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<td>Ball, Austin</td>
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<td>Bell, Paul</td>
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<td>Bender, Charles E.</td>
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<td>Fostoria, O.</td>
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<td>Bensen, Melvin</td>
<td>(Ph. G.)</td>
<td>Ashtabula, O.</td>
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<td>Berger, Adolph</td>
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<td>Brinkmeier, Ralf</td>
<td>(Ph. G.)</td>
<td>New Bremen, O.</td>
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<td>Brown, Clarence C.</td>
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<td>Mansfield, O.</td>
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<td>*Brown, Donald O.</td>
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<td>Burnham, Andrew</td>
<td>(Ph. G.)</td>
<td>Ashtabula, O.</td>
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<td>Cruz, D. A.</td>
<td>(Ph. G.)</td>
<td>Chambas, Cuba</td>
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<td>*Dishong, Ilo I</td>
<td>(B. S. in Ph.)</td>
<td>Hoytville, O.</td>
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<td>Ergh, George</td>
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<td>Cleveland, O.</td>
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<td>Elkin, Sam</td>
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<td>Franke, C. S.</td>
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<td>Bellaire, O.</td>
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<td>Gamble, Frances</td>
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<td>Midland, Pa.</td>
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<td>Holser, C. G.</td>
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<td>Seville, O.</td>
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<td>Honig, S. A.</td>
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<td>Infante, G. W.</td>
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<td>Levin, N. M.</td>
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<td>Lipicky, Nicholas</td>
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OHIO NORTHERN UNIVERSITY

Livesey, Al                     (Ph. G.)                     Canton, O.
Longer, Myer                  (Ph. G.)                     Cleveland, O.
McDonnell, Ralph             (Ph. G.)                     Niles, O.
Miller, E. C.                (Ph. G.)                     Mansfield, O.
Newman, L. N.                (Ph. G.)                     Cleveland, O.
Price, Thomas               (Ph. G.)                     Zanesville, O.
Rakestraw, Harold          (Ph. G.)                     Napoleon, O.
Reddick, Arthur             (Ph. G.)                     Napoleon, O.
Rowan, W. A.                 (Ph. G.)                     Wadsworth, O.
*Saum, Clifford            (Ph. G.)                     Tiffin, O.
Shoemaker, Robt              (Ph. G.)                     Mt. Blanchard, O.
Shoup, O. A.                 (Ph. G.)                     Crestline, O.
Spere, Milton               (Ph. G.)                     Cleveland, O.
Stotter, Harold             (Ph. G.)                     Cleveland, O.
Theaker, S. C.              (Ph. G.)                     Mansfield, O.
Tomarkin, Frank             (Ph. G.)                     Cleveland, O.
Troy, E. C.                 (Ph. G.)                     Crestline, O.
Weisenberg, Harry           (Ph. G.)                     Cleveland, O.
Whitney, Ruhi               (Ph. G.)                     Lima, O.
*Wolfe, A. J.               (Ph. G.)                     Niles, O.
Wolfley, Paul               (Ph. G.)                     Ada, O.
Wolff, W. E.                (Ph. G.)                     Lancaster, O.

SCHOOL OF MUSIC

Brown, Jeannette             (P. S. M.)                     Sedalia, O.
Calvert, Ethel Miller       (Grad. in Voice)           Alger, O.
Osmun, Mildred              (Grad. in Piano)            Lima, O.
Parks, F. E.                (Grad. in Piano)            Galion, O.
Tomlinson, Ruby George    (Grad. in Voice)             Ada, O.

SCHOOL OF COMMERCE

Bower, Kathryn             (Grad. in Ped. in Com.)       Lexington, O.
Brague, Dorothy            (Grad. in Ped. in Com.)       Clarington, O.
Burkhart, Isabelle C.      (Grad. in Ped. in Com.)       Galion, O.
Hullinger, Mildred         (Grad. in Com.)              Ada, O.
Owens, Claribel            (Grad. in Ped. in Com.)       Bluffton, O.
Parsell, C. W.             (Grad. in Ped. in Com.)       Forest, O.
Porter, Kathryn            (Grad. in Ped. in Com.)       Mt. Victory, O.
Ray, Bertha                (Grad. in Ped. in Com.)       Toledo, O.
Runkle, Hugh               (Grad. in Com.)              New London, O.
Sievesman, Louella         (Grad. in Ped. in Com.)       Ada, O.
Switzer, J. F.             (Grad. in Ped. in Com.)       Forest, O.
Tate, Meriam               (Grad. in Ped. in Com.)       Bowerston, O.
Tippin, Charles            (Grad. in Com.)             Mt. Blanchard, O.

SCHOOL OF EXPRESSION

Basore, Glenna             (B. O.)                      New Carlisle, O.
Faze, Yvonne              (Grad. in Exp.)                Lima, O.
Hawk, Mabel               (Grad. in Exp.)              W. Pittston, Pa.
Kalp, Mary                (B. O.)                      Findlay, O.
McCammon, Helen           (Grad. in Exp.)                Galion, O.

SCHOOL OF FINE ARTS

March, Ruby                (Grad in Fine Arts)         Harrold, O.

*Honor Student.
DEGREES

CLASS OF 1924

(Seniors who completed their work at end of Summer Quarter.)

Ahlesfeld, Chas. B. (B. S.) Ada, O.
Barnes, Vera L. in Com. New London, O.
Balmer, J. E. (A. B.) Ada, O.
Clayton, Genevieve (A. B.) Ada, O.
Conner, J. Ries- (A. B.) Ada, O.
Elder, Thora (A. B.) Ada, O.
Hover, Olive (A. B.) Ada, O.
Jump, Leta (A. B.) Kenton, O.
Mertz, Eva (A. B.) Ada, O.
Chrismer, Edna (Grad. Ped.) Lima, O.
Elder, Nova (Grad. Ped.) Belle Center, O.
Fenwick, J. B. (B. S. in Ed.) Chardon, O.
Leatherman, Ruth (Grad. Ped.) Harrod, O.
Royer, W. E. (B. S. in Ed.) W. Mansfield, O.
Wiseley, May (B. S. in Ed.) Ada, O.
Pugh. P. R. (B. S. in Ch. E.) Ada, O.
Johnson, W. L. (LL. B.) Ada, O.
Miller, Harold F. (LL. B.) Napoleon, O.
Mosbacher, M. J. (LL. B.) Findlay, O.
Bell, Ethel (Grad. in Ped. in Com.) Larue, O.
Howey, Helen (Grad. in Ped. in Com.) Upper Sandusky, O.
Phillips, Louella (Grad. in Exp.) Ada, O.

REGISTER OF UNDERGRADUATES

(Summer Quarter, June 2, 1924—Spring Quarter 1925 inclusive.)

LIBERAL ARTS

Anthony Bernard—— Franklin
Arn, Willis R.—— Hardin
Augenstein, W. H.— Delaware
Bernstein, Clarence — Allen
Breck, C. A. ———— Hardin
Battels, Harry ———— Hardin
Baum, William C. ———— Allen
Beck Robert C. ———— Stark
Benedict, Ira ———— Paulding
Berko, Sol ———— Cuyahoga
Bertels, Jack C.— Bergen, N.J.
Beyer, A. J. ———— Perry
Bird, F. A. ———— Fulton
Browns, Howard H.— Hardin
Brumbach, Henry B.— Mercer
Brumley, Donald ———— Hancock
Bruner, S. E. ———— Clark
Buchanan, Oscar W.— Hardin
Bamberg, Elizabeth ———— Hardin
Bentley, Jane ———— Allen
Betz, Madge ———— Hardin
Bish, Margaret ———— Hardin
Bonham, Sara ———— Logan

Ca
Jacob, Melville ———— Allen
Cotner, Leila ———— Hardin
Campbell, Ames ———— Hardin
Capell, Edwin A. ———— Hancock
Chiles, Harold ———— Hardin
Churchill, Leslie ———— Allen
Clifton, Emerson ———— Williams
Clinton, R. W.— Paulding
Coddington, Donald ———— Marion
Copeland, Herman A. ————

——— Auglaize
Corry, Bernard ———— Cuyahoga
Crates, Ralph B. ———— Hardin
Crow, George H.— Athens
Cummins, Kyle ———— Licking
Curtin, Lloyd ———— Crawford
Crowell, Richard W. ————

——— Paulding
Carpenter, H. M. ———— Wyandot
Charles, Hope ———— Hardin
Chiles, Ruth ———— Williams
Clapper Elizabeth ———— Allen
Crabtree, Mae ———— Union