Ada and the O. N. U.
OHIO NORTHERN UNIVERSITY

Annual Catalog

January 1919
CALENDAR

1919

March 6, Thursday-------------Winter Quarter Ends
March 11, Tuesday-------------Spring Quarter Begins
May 23, Friday, (8:00 P. M.)--College of Music and Expression Recital
May 25, Sunday, (10:00 A. M.)--Baccalaureate Sermon
May 25, Sunday, (8:00 P. M.)--Christian Association Address
May 26, Monday, (9:00 A. M.)--Field Sports
May 26, Monday, (2:00 P. M.)--Athletic Sports
May 26, Monday, (8:00 P. M.)--President's Reception
May 27, Tuesday, (8:00 A. M.)--Girls' Pete Champetre
May 27, Tuesday, (9:30 A. M.)--Military Contest
May 27, Tuesday, (10:00 A. M.)--Annual Meeting of Trustees
May 27, Tuesday, (12:00 M.)--Alumni Banquet
(Annual Alumni Business Meeting immediately after Banquet)
May 27, Tuesday, (2:00 to 5:00 P. M.)--Society Reunions
May 27, Tuesday, (5:30 P. M.)--Military Dress Parade
May 27, Tuesday, (8:00 P. M.)--Choral Society Concert
May 28, Wednesday, (8:30 A. M.)--Class Day Exercises
May 28, Wednesday, (1:30 P. M.)--Commencement Address
May 28, Wednesday, (8:00 P. M.)--Military Cadet's Reception
June 3, Tuesday-------------Summer Quarter Begins
June 3, Tuesday-------------First Special Summer Term Begins
July 11, Friday-------------First Special Summer Term Ends
July 14, Monday-------------Second Special Summer Term Begins
August 16, Saturday--------Summer Quarter and Second Special Summer Term Ends.

SUMMER VACATION

September 8, Monday----------Registration Day for 1919-20
September 9, Tuesday---------Fall Quarter, 1919-20 Begins
September 30, Tuesday--------College of Pharmacy Opens
November 26, Wednesday-------Fall Quarter Ends
November 27-December 1--------Thanksgiving Recess
December 2, Tuesday----------Winter Quarter Begins
December 19-January 5--------Christmas Vacation
Ohio Northern University Bulletin

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. Jeans and broadcloth, homespun and silk have equal chance. The atmosphere is thoroughly democratic, a leading characteristic being the marked camaraderie of the students, a majority of whom are relying mainly on their own pluck and push. Thorough 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. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each subject. On satisfactorily completing the required number of hours in the selected curriculum the appropriate degree is granted.

Students enter at the beginning of any quarter (except in the College of 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.

A three-year curriculum leading to a Bachelor’s degree means 44 weeks of fifteen hours of recitations a week. This is the same time that is required elsewhere in four-year curriculums based on thirty-six weeks a year with a maximum of fifteen hours a week.

An Alumnus has figured that by completing a course in the Ohio Northern University, a student gains one year in time and one thousand dollars in money.
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, obtain a card of matriculation and arrange his work. After matriculation (and also at the beginning of each term), on the payment of the tuition fee, the student is given a registration card, 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 card thus becomes a ticket of admission to the classes named thereon.

Registration Days

The first Monday of each quarter is Registration Day for new students, Tuesday for former students. All students, former and new, will report to their instructors on Tuesday.

Rooming Houses for Women

Young ladies coming from homes outside of Ada, are required to room in houses kept exclusively for women. The University will assist in securing rooming places for all young ladies, and carefully superintend all things pertaining to their welfare.

Requests for Credits

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

Each student is entitled to one copy of his credits; 50 cents is charged for each additional copy.
GENERAL DIRECTIONS

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg, Fort Wayne & Chicago Division of the Pennsylvania Railroad. Fifteen miles east of Lima and twenty-eight 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.

Organization

1. The College of Liberal Arts     * 8. The College of Agriculture
2. The College of Education       9. The School of Expression
3. The College of Engineering     *10. The School of Fine Arts
4. The College of Law
5. The College of Pharmacy        11. The Preparatory School
6. The A. D. Juilliard College of Music  12. The Department of Military Instruction
7. The College of Commerce        *Suspended for the present.

At their last annual meeting, the trustees, in honor of a liberal contributor to the funds of the University, named the department of music, The A. D. Juilliard College of Music.

N. B. For special information address:

THE SECRETARY OF THE UNIVERSITY, ADA, O.
BOARD OF TRUSTEES
Elected by the Conference

Initus                                      Exitus
1914  REV. CYRUS M. VAN PELT, D. D.---------Delaware, 1919
1918  REV. WILLIAM E. PUTT, D.D.-----------Cincinnati, 1919
1918  MR. EDGAR J. BROOKHART---------------Celina, 1919
1910  MR. S. D. HAZLETT---------------------Ada, 1920
1915  MR. H. E. MEYERS----------------------Springfield, 1920
1918  MR. J. F. FREESE----------------------Fostoria, 1920
1899  HON. S. A. HOSKINS, A. M.------------Wapakoneta, 1921
1913  MR. JOSEPH H. EDWARDS----------------Leipsic, 1921
1911  MR. GEORGE E. WHITNEY----------------Marysville, 1921
1898  REV. D. H. BAILEY, D. D.--------------Defiance, 1922
1907  MR. S. A. BOWMAN-----------------------Celina, 1922
1917  REV. C. E. SCHENK---------------------Cincinnati, 1922
1913  REV. WILLIAM A. WIANT, D.D.----------Springfield, 1923
1913  REV. JAMES R. COLLEY, D.D.------------Greenfield, 1923
1905  HON. JOHN H. CLARK--------------------Marion, 1923

Elected by the Alumni

1914  REV. AARON S. WATKINS, LL. D.--------Van Wert, 1919
1916  HON. FRANK B. WILLIS, LL.D.----------Delaware, 1921
1917  HON. W. E. YOUNG----------------------Akron, 1922
1918  DR. AUSTIN S. McKITRICK---------------Kenton, 1923

At Large, Elected by the Trustees

1911  HON. HENRY CLEWS, PH. D., LL. D.-------N. Y. City
1917  DR. GEORGE FRANKLIN GETTY-------------Los Angeles, Calif.
BOARD OF TRUSTEES

Officers of the Board

S. A. BOWMAN, President.

S. D. HAZLETT, Secretary and Treasurer.

Standing Committees


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ALUMNI OFFICERS

President..................................................R. H. Schoonover
Vice-President.............................................W. H. Gifford
Secretary-Treasurer....................................Thos. J. Smull

Executive Committee:

E. E. Long, Mrs. Mary Hickernell, Mrs. Carrie Ames

Election Committee:

F. L. Berger, M. L. Snyder, Elizabeth Burkholder
FACULTY AND ADMINISTRATION OFFICERS

HENRY SOLOMON LEHR, PH.D.  404 Union
President Emeritus.
A.B., Mt. Union College, 1871; A.M., 1873; Ph.D., University of Wooster, 1897.

ALBERT EDWIN SMITH, D.D., PH.D.,  502 South Johnson
President (on the William W. Edwards Foundation).
A.B., Ohio Wesleyan University, 1887; Ph.D., 1898; D.D. 1906.
President of Ohio Northern, 1905—

JOHN DAVIS, M.S., PED.D.
Vice President and Dean of College of Education. (1916—)
B.S., Ohio Normal University, 1889; M.S., 1892; M. Lit., 1902; Ped.D., 1912.

THOMAS JEFFERSON SMULL, ARCHT., C.E.,  301 S. Main
Executive Secretary. (1918—)
C.E., Ohio Northern 1904; Archt., 1906.
Dean of College of Engineering 1905—1917.

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

HENRY WHITWORTH, A.B.,  219 East Montford
Professor of Latin. (1900—). Dean of College of Liberal
Arts. (1910—1919). Treasurer and Entrance Examiner. (1919—)
A.B., Ohio Wesleyan University, 1877.

RICHARD HOLMES SCHOOOVER, A.M., B.D.,  803 S. Main
Professor of Greek, Hebrew, and Church History. (1901—)
Principal of Preparatory School. (1913—)
A.B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio
Wesleyan, 1888; B.D., Drew Theological Seminary, 1899.

CHILDE HAROLD FREEMAN, B.S.,  317 West Williams
Professor of Rhetoric and English Literature. (1901—)
B.S., Ohio Normal University, 1901.

LENIX CHAIG SLEESMAN, Ph.G., Ph.C.,  702 S. Gilbert
Professor of Chemistry. (1906—)
Ph.G., Ohio Northern, 1905; Ph.C., 1906.

FRANK LEWIS BERGER, A.B., B.S.,  121 E. Long
Professor of Physics. (1911—)
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914.

WALTER DAVID NISWANDER, A.M.,  421 S. Main
Professor of History. (1917—)
B.Ph., B.Ped., Ohio Northern, 1914; M.A., Ohio State University, 1917.
Professor of Political Science.

WILLIAM HENRY TRAINUM, A.M., B.D.,
Dean of College of Liberal Arts. (1913—)
Professor of Psychology and Social Philosophy. (1914—17, 1919—)
A.B. (Class), Dexter College, 1905; A.M., North Western University, 1907;
B.D., Garrett Biblical Institute, 1907; A.B., (in Ed.), Kirksville State
Teachers College, 1912.

WILLIAM CLAUDIUS GROTH, A.M.,
Professor of Modern Languages. (1905—1917, 1919—)
Student in Kiel University, 1882—1884; A.M., Ohio Northern, 1918.

Professor of Biology and Geology.

WILLIAM HENRY FREUND
Instructor in French. (1918)

817 S. Main

CARRIE ADEL WILSON, B.E.,
Instructor in Pedology, Principles of Teaching and Methods. (1914—)
417 S. Johnson
B.E., Ohio Northern, 1908.

ANNA M. VAUGHN
Critic Teacher in Primary Grades.
(Summer Terms, 1915—)

CHARLES ADDISON MILLER, C.E.,
Professor of Municipal Engineering. (1911—17); Civil (1918—)
Dean of College of Engineering. (1918—)
C.E., Ohio State University, 1907.

JOHN ALFRED NEEDY, B.S. in M.E.,
Professor of Mechanical Engineering. (1916—)
B.S., in Mechanical Engineering, University of Kentucky, 1911.

412 N. Gilbert

FLOYD FRED TURNER, B.S., E.E.,
Professor of Electrical Engineering. (1918—)
B.S., Ohio Northern, 1909; E.E., Ohio Northern, 1912.

308 E. Lincoln

WIGHTMAN S. BECKWITH, A.M.,
Professor of Mathematics.

718 S. Main

EMMETT E. LONG, B.C.S.
Commercial Arithmetic and Penmanship. (1907—)
Dean of Commercial College. (1918—)
Student at Zanerian Art College, 1909. B.C.S., Ohio Northern, 1911.

621 S. Johnson
PAULINE IRENE CHRISTIE, Grad. Sten., 417 S. Johnson
Stenography, Typewriting, Business English, (1917—)
Grad. Sten., Marion Business College, 1913.

WILLIAM WESLEY RUNSER, LL.B., 120 W. Buckeye
Dean of College of Law. (1918—)
Instructor in Law, 1899—1904; Professor of Law. (1914—)
A.B., Ohio Normal University, 1897; LL.B., 1898.

ELLAHUE ANSILE HARPER, A.M., LL.B.,
Instructor in Law. (1918—)
A.B., Ohio Normal University, 1890; B.L., Ohio Wesleyan, 1893; A.B.,
Ohio Wesleyan, 1898, LL.B., Ohio State, 1900.

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

FREDERIC THOMAS KILLEEN 209 S. Johnson
Professor of Voice and Dean of College 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.

WILLIAM P. LAMALE, Mus. B., 309 E. Lincoln
Professor of Organ and Piano. (1916—)
Mus. B., Oberlin College Conservatory, 1910. Student with Tobias Matthay

MARY CLYTICE PHILLIPS 301 E. Williams
Children's Piano Department. (1917—)
Graduate in Piano, Ohio Northern, 1916.

MRS. MAE DEMING McCOPPIN 431 North Gilbert
Dean of School of Expression.

ESTHER PATRICK, (Ohio State)
Instructor in Domestic Science.
(Summer Quarters, 1916—)

ELLEN KATHRYN ROTHROCK, A.B., 409 N. Main
Instructor in Algebra and Geometry. (1916—)
A.B., Ohio Northern, 1915.

Instructor in Preparatory History and English.

JAMES RALPH SPELLMAN 411 S. Johnson
Assistant in Law.
FRANK WHITON PARSONS,
Assistant in Higher Mathematics. (1918—)

FIDEL CUDORA DAGANI
Assistant in Spanish. (1918—)

EDWIN HOWARD LOTZ
Assistant in Engineering.

GEORGE R. MEIERS
Assistant in Algebra.

A. RAYMOND STEESE
Assistant in Mathematics.

RALPH HARPER OSMUN
Assistant in Pharmacy Laboratory.

THOMAS C. ERWIN
Assistant in Botany Laboratory.

MABEL ANNA LOTZ
Assistant in Bookkeeping.

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

FLO L. CRONBAUGH
Stenographer.

HENRY ERICKSON
President Y.M.C.A.

ADELAIDE GRIMES
President Y.W.C.A.

JOHN DEXTER TEMPLETON
Chief Custodian of Buildings.

HIRAM CORNELIUS COOLIDGE
Assistant Custodian of Buildings.
FACULTY ORGANIZATION

Dr. A. E. Smith, Chairman.
R. H. Schoonover, Secretary
Margaret E. Whitworth, Registrar.

Committees

Administration: Dr. Smith, Dr. Davison, Secretary Smull, Professor Raabe.

Athletics: Secretary Smull, Professors Sleesman, Killeen, Long, Miller, Niswander.

Catalog and Editing: Professor Whitworth, Secretary Smull, Dr. Smith, Mrs. Whitworth.

Entrance: Professors Whitworth, Miller, Raabe, Schoonover.

Finance: Dr. Smith, Secretary Smull, Treasurer Whitworth, Mrs. Whitworth.

Girls’ Welfare: Dr. Davison, Miss Wilson, Mrs. Whitworth, Miss Rothrock, Miss Christie, Mrs. McCoppin.

Graduation and Degrees: The Deans and Principal of Preparatory School.

Library: Professors Freeman, Schoonover, Beckwith, Turner, Dr. Davison.

Literary Societies: Professors Raabe, Niswander, Berger, Lamale.

Loan Fund: Professor Whitworth, Secretary Smull, Dr. Smith.

Military: Commandant Ball, Professors Long, Sleesman, Schoonover, Secretary Smull.

Physical Education: Miss Wilson, Miss Christie, Professors Long, Killeen, Needy.

Summer School: Dr. Davison, Professors Freeman, Long, Miller, Secretary Smull.
GENERAL INFORMATION

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 Soloman 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."

In 1885 the name was changed to Ohio Normal University, the policy and management remaining the same.

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, theretofore 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.

In 1904 the institution was rechartered under the name Ohio Northern University.

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 post-graduate instruction.

Location and Buildings

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

In the midst of the campus stand 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 College of Law and College 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 electrical 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 armory and used as an assembly hall for social functions. Recently a wing has been added, with extensive equipment and special appliances for instruction in Domestic Science.

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 its assembly room, offices and private practice rooms, cozy and convenient.

While all the buildings contain attractive, well-arranged rooms, lighted and heated from the University's central steam heating and electrical lighting plant, the Lehr and Hill buildings especially, are thoroughly modern in their appointments and sanitary equipment, and are fire-proof.

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 Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and the latest conveniences. In the general chemical laboratory are one hundred and twelve lockers with first class outfits, including all appar-
atus necessary for thorough individual work. The physical laboratory has ample accommodation for more than one hundred and fifty students, with abundant apparatus for individual 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 arrangement; 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 all 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 microscopic laboratory is supplied with an outfit of compound microscopes, accessories and appliances for special work in pharmaceutical micro-technique.

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found all the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing 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, all animals, native to Ohio, many kinds of snakes, and several hundred specimens, of the orders of invertebrates preserved in jars. For illustration in anatomy of human skeleton and structural models of various organs are at hand.

Library

In the disastrous fire of 1913 the University lost its library; not a sheer calamity, perhaps, for in its stead there is being established by purchase and gift a new and better one, in apartments built especially for the purpose, on the second floor of Lehr Memorial. Here in spacious and well-lighted quarters have been provided a reading room accommodating one hundred
and fifty students; a stack room with capacity for 60,000 volumes, and a large corridor filled with departmental reference volumes. To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes. The use of the library is free to all students.

Since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institution are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. The departments of history, literature, sociology, economics and philosophy especially suffered from the fire. Any contributions of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter.

**Athletic Field**

Within four squares of the Campus, adjacent to the student rooming section of the town, lie the Athletic Grounds, owned and controlled by the University, on whose area of eight acres the Baseball Diamond, the Football Gridiron, the Running Tracks, the Lawn Tennis Courts, and the Military Parade and Contest Field are located.

**University Farm**

The University possesses a tract of land within a block and a half of the campus, containing ninety acres of rich, productive soil under cultivation, devoted to the practical demonstration of farm methods and problems. There the Agricultural college buildings are to be erected.

**Rooms, Boarding and Home Comforts**

Board in private families costs from $3.00 to $3.75 a week, and furnished rooms, two in a room, 75 cents to $1.25 each a week.
The town is lighted with electricity; coal is the chief fuel, and many houses are heated by hot-air furnaces, gas, or with hot water from the city heating plant.

The comfort and convenience of the student is looked after by a kind people; when sick he is well cared for.

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 $50 a year, to be taken out as follows: First quarter, $25; second quarter, $15; third quarter, $10.

Scholarships. The University has received through generous donors four 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 recipients 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 J. T. Cunningham Scholarship, by M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, Ohio.

2. The George Franklin Getty Scholarship, by George F. Getty, Los Angeles, Calif.

3. The James E. and Caroline Purvis Scholarship, by James E. Purvis, Bremen, Ohio.

4. The Parlette Scholarship, by Ralph Parlette of Chicago, Ill.
Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

Miss Pearl A. M. Stahl offers $15 and $10 prizes annually to the two successful members of the Philomathean Society.

Dr. George W. Crile, of Cleveland, an alumnus, has permanently provided for $15 and $10 prizes for the winners in the Adelphian Literary Society.

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

Hon. S. A. Hoskins, Columbus, O., offers $15 and $10 prizes for two years to the members of the Franklin Literary Society winning honors in debate.

Work. Many students in the University earn a part of their expenses by working as waiters, janitors, and at other occupations in the town and vicinity, and at the same time carry full work in studies.

Student Societies and Activities

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

 Debating Clubs. Under the supervision of the societies, clubs are organized each term 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. Ten per cent of the athletic fee is appropriated to the maintenance of forensic work. Debaters are selected and assisted in their training by a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests.

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 per cent. of 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 are religious meetings are open respectively to all men and women enrolled in the University.

Band and Orchestra. The Military Department has an organized band of thirty-five pieces, which meets for practice one hour each day.

Students playing any band or orchestral instrument are urged to bring their instrument with them and become members of this organization. They may substitute the band practice for military drill, and receive a credit of five quarter hours for three quarters of service, including contest week.

Clubs. The Cosmopolitan Club is a spirited organization of the foreign students attending the University. The object is to promote good feeling among the representatives of the different nationalities, to familiarize its members with the customs, resources and view points of the several countries, to afford practice in the use of English and to establish a social centre for mutual help and encouragement.

A number of live departmental associations are maintained.

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.

Athletics. College teams in baseball, football, basketball, and track athletics are maintained. Interdepartmental, interclass and intersociety sports are also encouraged.

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 for each college sport; the student members being elected by the Athletic Association, a student organization, to which any student of the University may belong.
A fee of $1.00 per quarter is charged each student for the support of Athletics and Intercollegiate Debating Club. No fee is charged for the Summer Quarter. Upon the payment of this fee, the student receives a ticket of admission to all intercollegiate Athletic and Debating events free of charge.

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

Military Drill. Every able-bodied male student intending to complete any of the University curriculums, is expected to drill and recite in this department three quarters and "go through contest." For further information see "Military Department."

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 key-note 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 afforded in the formation of right habits, but those who cannot govern themselves are not wanted. This institution does not pose as a "reform school."

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.

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.

Convocations are held each school day, except Monday, from 8:00 to 8:30 a.m. The aim of which 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 Colleges to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the Colleges of Music and Expression.

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.

Tuition Rates

In the College of Liberal Arts, College of Education, College of Commerce, College of Agriculture and Preparatory School, tuition rates are as follows:

For one quarter, (12 weeks), in advance $16.00
For two quarters, in advance 31.00
For three quarters, in advance 46.00
For four quarters, in advance 60.00

In the College of Engineering and College of Law:

For one quarter (12 weeks), in advance $19.00

In the College of Pharmacy:

Tuition for 32 weeks, including drugs, chemicals, laboratory, (excepting microscopical) and athletic fees, in advance $99.00

In the College of Music, School of Expression, and School of Fine Arts:

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

All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.
Tuition must be paid by Friday of the first week, otherwise one dollar additional will be charged. A special fee of $1.00 is charged for late enrollment.

A charge of one dollar is made for transferring a student from one course to another, unless the change is made at the opening of a term.

Those coming in late in the quarter and desiring, where possible, to make up the work they have missed, and earn a credit, will pay full term tuition.

**Laboratory Fees**

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

- **Preparatory and College.** Inorganic Chemistry I. and II., per quarter, $4.00; all others, $5.00. Preparatory Physics, $2.50; College Physics, $3.00. Biology, Botany and Zoology, each $2.00. Physiology, $ .60. Preparatory Botany, $ .75.

- **Engineering.** Plane Surveying, Field Engineering, Railroad Engineering, Mechanical Engineering, each $2.50; Electrical, $3.00. Cement Laboratory, $1.00. Machine Shop, $1.00. Hydraulic Laboratory, $1.00.

**Special Fees—Bookkeeping and Stenography**

A fee of $3.00 is charged on entering the Office Practice and Banking Classes for use of ledgers, commercial paper and other supplies.

A fee of $3.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $5.00. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

A deposit of $2.00 is required for use of college currency which will be refunded when currency is returned at close of term's work, less deductions for loss.

The applicant for currency must present his receipts for the above named fees.

**Special Examination Fee**

A fee of $2.50 is charged for a special examination in any course not given in that quarter, and a student is limited to
one special examination per quarter. No special examination is permitted unless approved by the student’s Dean, and requests for such examinations will be refused if the credit for the subject raises the total number of hours above the maximum prescribed for the quarter.

**Graduation Fees**

Neatly executed diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00. Those preferring real parchment will be charged one dollar extra.

Candidates for any degree are required to pay full tuition in graduation quarter.

**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. Receipts are not transferable.
COLLEGE OF LIBERAL ARTS

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

WILLIAM HENRY TRAINUM, A.M., B.D.,
Dean
Psychology, Social Sciences

HENRY WHITWORTH, A.B.,
Latin

RICHARD HOLMES SCHOONOVER, A.M., B.D.,
Greek, Hebrew, Biblical History

WILLIAM CLAUDIUS GROTH, A.M.,
French, German, Spanish

CHILDE HAROLD FREEMAN, B.S.,
Rhetoric, English Literature

FRANK LEWIS BERGER, A.B.,
Physics

LENIX CRAIG SLEESMAN, Ph.G., Ph.C.,
Chemistry

---------------------------------------------
Biology, Geology

---------------------------------------------
Political Science

WALTER DAVID NISWANDER, A.M.,
History

WIGHTMAN S. BECKWITH, A.M.,
Higher Mathematics

ELLEN KATHRYN ROTHROCK, A.B.,
Mathematics
ADMISSION

General Remarks

Applicants for admission to courses in the College of Liberal Arts, leading to a degree, must have, in addition to the preacademic or grammar school studies, four years of high school preparation, or a full equivalent, including all subjects specifically required for entrance upon the several courses offered. Applicants must complete the required preparatory work, if their certificates from other schools show that this work has not been finished.

Those not desiring to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as "Special Students." Should they later desire to graduate, they may do so, on condition of passing all the requirements including the preparatory work.

Credits in the entrance subjects are accepted from "first-class" High Schools, Academies, or Preparatory Schools. No certificates for private work are accepted, and the Entrance Committee, while disposed to weigh credits in all work done in completing a "well-planned high school course," reserves the right to reject any or all grades from a second or third class High School.

The applicants must present credentials duly made out and signed by the proper official of the school from which he comes, and showing in detail (1) the text book used in each subject, (2) the amount 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" and enclosing a self-addressed, stamped envelope.

The applicant must see that the certificate is correct before presenting it, for credits not on the certificate will not be considered.
Entrance Requirements

A unit is the credit given for pursuing a subject for five periods a week throughout a school year of thirty-six weeks, each period not less than 40 minutes. Its time equivalent is 120 clock-hours. At least 15 such units are required for admission to collegiate rank. Units from High Schools will be accepted as follows:

- English: 3 to 4 units
- Greek: 1 or 2 units
- Latin: 2 to 4 units
- German: 1 or 2 units
- French: 1 or 2 units
- Spanish: 1 or 2 units
- History: 1 to 4 units
- Civics: ½ unit
- Economics: ½ unit
- Adv. Arithmetic: ½ unit
- Algebra: 1 or 1½ units
- Geometry: 1 or 1½ units
- Plane Trigonometry: ½ unit
- Physics: 1 unit
- Physiography: ½ or 1 unit
- Physiology: ½ or 1 unit
- Biology: ½ or 1 unit
- Agriculture: ½ or 1 unit
- Chemistry: 1 unit
- Botany: ½ or 1 unit
- Geology: ½ or 1 unit
- Astronomy: ½ or 1 unit
- *Bookkeeping: ½ or 1 unit
- *Commercial Law: ½ unit
- *Stenography: ½ or 1 unit
- *Shop-Work: 1 unit
- *Freehand Drawing: ½ or 1 unit
- *Com. Geography: ½ or 1 unit
- *Domestic Science: 1 unit
- *Music: ½ or 1 unit

*Not more than a total of four units out of the last eight subjects will be accepted.

Students taking a part or all of the preparatory work in Ohio Northern will follow the schedule set forth under "The Preparatory School."

Admission to 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. Credit for advanced standing must be secured within the first and second quarters of the student's residence.

The Committee on Admission reserves the right of rejecting subjects foreign to the college curriculum.
COLLEGE OF LIBERAL ARTS

COLLEGIATE COURSES

The regular courses of instruction offered in the College of Liberal Arts are classified in the following departments:

1. Biblical Literature and Christian Religion
2. Biological and Geological Science
3. Chemistry
4. Economics
5. English
6. Greek and Hebrew
7. History
8. Latin
9. Mathematics
10. Modern Languages
11. Physics
12. Philosophy and Psychology
13. Political Science
14. Social Sciences

Schedules

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

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.

As a condition of graduation, a student must complete 180 hours ((exclusive of military drill), this being the equivalent of fifteen class exercises a week for twelve quarters.

Minimum, thirteen hours a week; maximum, twenty hours.

Credits for the following are required of all candidates for degrees:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English</td>
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<tr>
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<tr>
<td>Biology 9 or Physics</td>
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For additional courses in these departments, necessary for graduation, see the respective schedules following.
## 1. Leading to the Degree of Bachelor of Arts

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<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
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<td>Sociology I. ... 3</td>
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<td>Life of Christ... 5</td>
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Examinations. Mid-term examinations are held at the discretion of each professor. Final examinations are held on Wednesday and Thursday of the last week of each quarter, except in the Spring Quarter, when they fall on Thursday and Friday of the eleventh week.

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.

Graduation

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 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 Committee on Graduation and Degrees.
DESCRIPTION OF COURSES

Department of Biblical Literature and Christian Religion

PROFESSORS TRAINUM AND SCHOONOVER

English Bible 1. Old Testament History I. 5 Hrs.

English Bible 2. Old Testament History II. 5 Hrs.

A survey study of the history of the Hebrew people as presented in the Old Testament from the period of the conquest and establishment in Canaan to the Maccabean struggle and the close of the Old Testament history. The course embraces a preliminary sketch of the patriarchal period, with a more detailed study of the conquest, the period of the Judges, the united and the divided kingdoms, the exile, the revival of Judah and the beginning of Judaism. Two quarters.

English Bible 3. Life of Christ. 5 Hrs.

Constructive studies in the Life of Jesus. The aim of the course is to enable students to construct their own "Life of Christ" in a true historical perspective. To this end the entire gospel history is studied in a connected way, especially attention being given to the most important political and social features of New Testament times and to the interpretation of critical passages.

English Bible 4. Christianity in the Apostolic Age. 5 Hrs.

This is a constructive study of Christianity from its inception to the close of the Apostolic Era. As far as possible the student is led to construct his own story of the development of primitive Christianity. The study follows in the main the outline of the book of Acts, but the Epistles are also used in so far as they reflect conditions of life and thought during the period.

(For other courses in English Bible see "Social Philosophy."

Christian Religion 1. Evidences of Christianity. 5 Hrs.

A study of the grounds of Christian belief and an inquiry into the great essentials of the Christian faith, both in its biblical and philosophical aspects. Spring quarter.

Christian Religion 2. Church History. 5 Hrs.

A survey of the origin, growth, spread and influence of Christianity on the nations of the world. Fall quarter.

Department of Biology and Geology

PROFESSOR

Biology 1. General Biology I. 3 Hrs.

Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. Fall quarter. M., W., F.

Course I. deals with some of the essential problems found
in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution.

Biology 2. General Biology II. 3 Hrs.
Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Winter quarter. Course II. is given to the study of biological facts as evidenced in the animal kingdom.

Biology 3. General Biology III. 3 Hrs.
Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. M., W., F. Spring quarter. Course III. is a study of general physiological processes based upon the human body. Hygiene, sanitation, and prevention of disease are given attention.

Biology 4. General Zoology I. 3 Hrs.
Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. T., Th. Fall quarter.

Biology 5. General Zoology II. 3 Hrs.
Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. T., Th. Winter quarter.

Biology 6. General Zoology III. 3 Hrs.
Two hours a week lecture and discussion, three hours laboratory. 9:30—11:30. T., Th. Spring quarter. These courses in General Zoology constitute a year’s work. Representative types form the basis for the study of structure, relationships, developments and distribution. Economic importance is given consideration. Prerequisites: Courses 1, 2 and 3 in General Biology.

Biology 7. Botany I.—Thallophytes. 4 Hrs.
1:00—3:00. M., W., F. Fall quarter.

Biology 8. Botany II.—Bryophytes. 4 Hrs.
1:00—3:00. M., W., F. Winter quarter.

1:00—3:00. M., W., F. Spring quarter. These courses in General Botany constitute a year’s work. Beginning with the lowest forms of plant life and proceeding to the highest, a careful study is made of the structure, development and evolution of plants as illustrated by selected types. Prerequisites: Courses 1, 2 and 3 in General Biology. Two hours a week lecture and discussion; four hours laboratory.

Biology 10. Ecology of Plants 4 Hrs.
A systematic study of the local flora with special attention to the study of plants in relation to their environment. Illustrated lectures, laboratory and field work. Prerequisites:
COLLEGE OF LIBERAL ARTS

Botany I., II., III., or equivalent, and Geology I. Summer quarter.

Biology 11. Dendrology. 3 Hrs.

7:00—11:30. Th. or Sat. Spring quarter.
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. Schaaffner's Field Manual of Trees is used as a key.

Biology 12. Histological Technique and Biological Methods. 3 Hrs.
Lecture and class work two hours, laboratory six to eight hours. Summer quarter. 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 material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Those desiring this course will notify the instructor several weeks in advance. Course limited to ten students. Laboratory fee to be fixed. Lecture and recitation two hours a week, laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Summer quarter, 19__

Geology 1. Dynamical and Structural. 3 Hrs.
Lectures, class exercises, assigned reading, laboratory work. 8:30. M., W., F. Fall quarter.
A study of the earth's crust, dealing with rock form and structure, and the formation of mineral deposits and mountains, together with a study of the forces past and present which have brought the earth to its present condition. Lecture, recitations and assigned readings, with laboratory work. Prerequisites: Chemistry and Physics.

Geology 2. Historical. 3 Hrs.
8:30. M., W., F. Winter quarter.
A lecture and recitation course supplemented by rock collections, fossils and lantern slides. The sequence and distribution of rock strata and the succession of past geologic life, including a discussion of the theories of organic evolution and the evidences of evolution among plants and animals. Prerequisites: Geology I. and Biology I., II. desirable.

Department of Chemistry

PROFESSOR SLEESMAN AND ASSISTANT

Three hours a week lecture and class exercise, four hours laboratory. 8:30. Each quarter. This course is intended for students who have not had preparatory chemistry. Prerequisites: Preparatory Physics.
Chemistry 2. General Inorganic Chemistry II. 5 Hrs.
   Three hours a week lecture and discussion, four hours laboratory. 9:30. Every quarter.

   Three hours a week lecture and discussion, four hours laboratory. 10:30. Each quarter.
   Courses I. and II. offer a thorough study of the non-metallic and metallic elements and their several combinations.
   Prerequisites: General Chemistry I. and Preparatory Algebra I.

Chemistry 4. Qualitative Analysis I. 5 Hrs.
   Prerequisites: General Chemistry I., II., III.

Chemistry 5. Qualitative Analysis II. 5 Hrs.
   Prerequisites: Chemistry 4.

   A thorough study of the structure and constituents of the carbon compounds; the hydrocarbons and carbohydrates with their many addition and substitution products.

   Continuation of Chemistry 6.

Chemistry 8. Quantitative Analysis. 5 Hrs.
   This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts, sugar, syrups, candies, baking powders, milk, urine, etc. A large amount of work is done which the Food and Drug Act demands.

Chemistry 9. Special Chemistry. 5 Hrs.
   This includes the chemistry of the pharmaceutical drugs and their preparation; the analysis of ores, clays, cements, coal and coke, soil, limestone and many other compounds.

Department of Economics

PROFESSOR

   1:00. Fall quarter.
   General introduction to the study of Political Economy.
   Courses 1 and 2 together are designed to give the student an acquaintance with the working principles of modern economics.

Economics 2. Principles of Economics II. 5 Hrs.
   1:00. Winter quarter.
   Prerequisites: Economics I.
English 1. College Rhetoric I. 3 Hrs.

English 2. College Rhetoric II. 3 Hrs.

English 3. Argumentation. 3 Hrs.
A detailed study of the principles of argumentation; practice in brief making and in debating. M., W., F. Winter and Spring quarters. Text: Foster. Prerequisite: College Rhetoric II.

English 4. The Short Story. 3 Hrs.
A study of the technique of the short story; reports on required readings; some practice in story writing. M., W., F. Fall quarter. Text: Essenwein’s Writing the Short Story. Prerequisite: College Rhetoric II.

English 5. Expository Writing. 2 Hrs.
T., Th. Fall and Winter quarters. Prerequisites: College Rhetoric I. and II.

M., W., F. Fall quarter.

English 7. Survey of English Prose. 3 Hrs.
M., W., F. Winter quarter.

English 8. Poetics I. 2 Hrs.

English 9. Shakespeare I. 3 Hrs.

English 10. Shakespeare II. 3 Hrs.
Tragedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 11. Shakespeare III. 3 Hrs.
Comedies. M., W., F. Prerequisites: Same as for Shakespeare I.

English 12. Milton. 3 Hrs.
The poetry of Milton is read and studied; also the Essay on Education and The Areopagitica. M., W., F. Summer quarter. Prerequisites: College Rhetoric and Survey of English Prose and Poetry.

English 14. Nineteenth Century Poetry II. 3 Hrs.
   A study of Tennyson. M., W., F. Prerequisites: Same as in English 13.

English 15. Nineteenth Century Poetry III. 3 Hrs.
   A study of Browning. M., W., F. Prerequisites: Same as in English 13.

   M., W., F. Fall quarter. Prerequisites: Survey of English Poetry and Prose.

English 17. Nineteenth Century Essayists II. 3 Hrs.
   M., W., F. Winter quarter. Prerequisites: Same as in English 16.

English 18. Prose Fiction. 3 Hrs.
   The development of the novel and its place in literature; critical study. M., W., F. Summer quarter.

English 19. Literary Criticism. 3 Hrs.
   A study of the principles of literary criticism as applied to the various forms of literary expression.

English 20. American Poetry. 3 Hrs.
   M., W. F. Spring quarter.

English 21. American Prose. 3 Hrs.
   M., W., F. Summer quarter.

Department of Greek and Hebrew

PROFESSOR SHOOKOVER

I. Preparatory Courses

Greek 1. White's First Greek Book I. 5 Hrs.
Greek 2. White's First Greek Book II. 5 Hrs.
Greek 3. White's First Greek Book III. 5 Hrs.
Greek 4. Xenophon's Anabasis I. 5 Hrs.
Greek 5. Xenophon's Anabasis II. 5 Hrs.

II. Advanced Courses

Greek 6. Epic Poetry—Homer's Iliad I. 5 Hrs.
Greek 7. Epic Poetry—Homer's Iliad II. 5 Hrs.
Greek 8. Lyric Poetry—Selections 5 Hrs.
Greek 9. Drama—Selected Plays. 5 Hrs.
Greek 10. History—Selected Authors. 5 Hrs.
Greek 11. Philosophy—Selected Authors. 5 Hrs.
Greek 12. Oratory—Selected Orations. 5 Hrs.
Greek 13. Sacred Greek—One of the Gospels. 5 Hrs.
Each work mentioned in course 4-13 inclusive, is pursued one quarter. A literary study of the period is a part of each course.

Hebrew 1—3. Elementary Courses. 5 Hrs.
Hebrew 4. Judges. 5 Hrs.
Hebrew 5. Psalms. 5 Hrs.
Hebrew 6. Prophetic Writings. 5 Hrs.

Department of History
PROFESSOR NISWANDER

History 1. Western Europe I. (Fall) 3 Hrs.
History 2. Western Europe II. (Winter) 3 Hrs.
History 3. Western Europe III. (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. Part II. will also be offered in Summer quarter of 1919.

History 4. English History I. (Fall) 3 Hrs.
History 5. English History II. (Winter) 3 Hrs.
History 6. English History III. (Spring) 3 Hrs.

An introductory study of English 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. Part II. will also be offered in the Summer of 1919.

History 7. Renaissance and Reformation I. (Fall) 2 Hrs.
History 8. Renaissance and Reformation II. (Winter) 2 Hrs.
History 9. Renaissance and Reformation III. (Spring) 2 Hrs.

This 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. Prerequisite: History 1, 2, and 3, or equivalent. (To be given 1918—19).

History 10. French Revolution I. (Fall) 2 Hrs.
History 11. French Revolution II. (Winter) 2 Hrs.
History 12. French Revolution III. (Spring) 2 Hrs.

As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revo-
lution; the rise of the Napoleonic empire and institutions; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. Prerequisites: History 1, 2, 3, or equivalent. (To be given 1919—20).

History 13. American History I. (Fall) 3 Hrs.
History 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. Part II will also be offered in the Summer of 1919.

History 16. Recent American History I. (Fall) 3 Hrs.
History 17. Recent American History II. (Winter) 3 Hrs.
History 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. The work is intended for those students who expect to teach history, or have taken at least thirty hours in the subject. It is also recommended to advanced students in the department as a supplement to the outline course in American History.

History 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 lessons for teaching, and the conduct of recitations. 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 quarters.

Department of Latin

PROFESSOR WHITWORTH

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.

Latin 5. Cicero—De Senectute et De Amicitia Fall quarter.
Latin 7. Livy—Selections from Books XXI. and XXII. Spring quarter.
Courses 5, 6 and 7 are open to students who have presented four units of Latin for College entrance.

Latin 8. Virgil—Elegies and Bucolics 3 Hrs.
Latin 9. Tacitus—Agricola and Germania. 3 Hrs.
Latin 10. Plautus—Captivi or Trinummus. 3 Hrs.
Latin 11. Private Life of the Romans. 2 Hrs.
Latin 12. Latin Literature of the Republic I. 3 Hrs.
Latin 13. Latin Literature of the Republic II. 3 Hrs.

Text-books for courses 12, 13 and 14: McKail's Latin Literature and the Oxford Book of Verse.

Latin 15. Teacher's Training Course. 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. Summer quarter.

Latin 16. Advanced Composition. 2 Hrs.

Department of Mathematics

PROFESSORS BECKWITH, ROTHROCK AND ASSISTANT

Special stress is laid on factoring, radical quantities, fractional exponents, the solution of simple equations of one, two or more unknown quantities and the quadratic of one unknown.

Mathematics 2. College Algebra II. 4 Hrs.
The large part of this course is a study of the quadratic equation, followed by the surds, the imaginaries, the binomial theorem and arithmetical, geometrical and harmonic series.

Mathematics 3. College Algebra III. 4 Hrs.
Theory of logarithms, permutations, combinations, choice and chance, determinants, theory of equations.

Mathematics 4. Trigonometry I. (Plane) 5 Hrs.
Theory of the trigonometric functions and their application to the solution of right and oblique triangles; the use of tables; the solution of a large number of practical problems.

Mathematics 5. Trigonometry II. 2½ Hrs.
This course gives attention to the solution of trigonometric identities, the solution of trigonometric equations, and the theory and solutions of spherical triangles.
Mathematics 6. Analytic Geometry I.  
4 Hrs.
The properties of the straight line referred to Cartesian and polar coordinates, loci, equations, and tangents to the circle, the parabola, the ellipses and the hyperbola. Prerequisite: Trigonometry I. Fall and Spring quarters.

Mathematics 7. Analytical Geometry II.  
4 Hrs.
A study of the conic sections, poles and polars, higher plane curves, solid geometry embracing the plane and quadric surfaces. Winter and Spring quarters.

Mathematics 8. Calculus I. (Differential)  
4 Hrs.
Functions: their differentiation, expansion, maxima and minima, together with indeterminate forms. Prerequisite: Analytic Geometry I. Winter quarter.

Mathematics 9. Calculus II.  
4 Hrs.
A study of the points of inflexion, curvature, evolutes and involutes, change of the independent variable, functions of two or more variables, and the simpler forms of integration. Winter quarter.

Mathematics 10. Descriptive Astronomy.  
4 Hrs.
A study of the fundamental facts of astronomy and of the methods of modern astronomical research. The classes are required to spend from one to two hours a week in laboratory work, consisting of tracing on globes the path of the sun, of problems with the celestial globe, and star plotting on prepared maps. Prerequisites: Preparatory Physics and Trigonometry II. Fall quarter.

Department of Modern Languages
Preparatory Courses in German

PROFESSOR GROTH

1. German I., II., III. Pronunciation, elements of grammar, easy reading, practice in speaking and writing German. Reading: Maerchen and Ersachlungen, Andersen’s Fairy Tales, Der Zerbrochene Krug, Germelshausen, Hocher als die Kirche, Traumereien, Immensee. Credit, five hours each.

2. German IV., V. Reading, conversation and composition. Schiller’s Wilhelm Tell, Marie Stuart and other masterpieces of representative German authors. Credit, five hours each.

Advanced Courses in German

3. German VI., VII., VIII. Study of selected classics, prose composition, conversation practice, lectures on German
literature, history of German literature. Credit, three hours each.

Preparatory Courses in French

4. French I, II, III. Pronunciation, grammar, writing, oral exercises, graded readings. La Mare au Diabel (Sand), L'Abbe Constantin and other similar grades of writings. Credit, five hours each.

5. French IV, V. Reading and Translation of French masterpieces, studies in syntax and conversation. Credit, five hours each.

Advanced Courses in French

6. French VI, VII, VIII. Study of French classics, conversation. Credit, three hours each.

Preparatory Courses in Spanish.


8. Spanish IV, V. Grammar, composition, conversation, reading of best Spanish authors. Credit, five hours each.

Advanced Courses in Spanish

9. Spanish VI, VII, VIII. Study of Spanish classics, conversation and writing. Credit, three hours each.

Italian


Department of Philosophy

PROFESSOR TRAINUM

Philosophy 1. Logic. 5 Hrs.
Elements from the text-book. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence.

Philosophy 2. History of Philosophy I. 3 Hrs.
The course covers the history of European philosophy from the Ionian Greeks to the Renaissance.

Philosophy 3. History of Philosophy II. 3 Hrs.
This is a continuation of Philosophy 2, with special emphasis placed on the philosophical movements of the nineteenth century, including the theory of evolution.
Philosophy 4. Comparative Religions I. 3 Hrs.

Philosophy 5. Comparative Religions II. 3 Hrs.
This course is an attempt to trace out the solution or solutions of the problem regarding the origin of things as offered by religion, beginning with the most primitive form and ending with the highest form.

Text, discussions and outside readings. Fall and Winter quarters.

Philosophy 6. Ethics. 5 Hrs.
The theory of morals. The course is a study (1) of the nature of goodness, duty and freedom; (2) of the ethics of the family, society, and the state. Summer quarter.

Department of Physics
PROFESSOR BERGER AND ASSISTANT

Physics 4. Engineering Physics I. 4 Hrs.
Physics 5. Engineering Physics II. 4 Hrs.
These courses constitute a year's work in Engineering Physics. Prerequisites: Preparatory Physics and Trigonometry I.; Calculus is recommended. Physics IV. is a prerequisite for Physics V. and VI. Class, three hours; laboratory, two hours.

Physics 8. Teaching of Physics. 5 Hrs.
A course in the "Teaching of Physics." Prerequisites: Preparatory Physics.

Physics 10. Premedical Physics II. 4 Hrs.
Physics 11. Premedical Physics III. 4 Hrs.
The courses are for all except Engineering students. They meet the premedical requirements. Prerequisites: Preparatory Physics; Physics IX. is prerequisite for X. and XI. Class, three hours, laboratory two hours.

Department of Political Science
PROFESSOR ------------

Political Science 1. Comparative Government and Politics I. 3 Hrs.
Political Science 2. Comparative Government and Politics II. 3 Hrs.
Political Science 3. Comparative Government and Politics III. 3 Hrs.
As detailed a study as time will permit, of the American governmental system, national, state and local, then a general
and comparative study of the governments of Europe, especially France, Italy, Switzerland and Germany, and finally a more detailed study of English government; introductory and prerequisite to the more advanced work in Political Science.

M., W., F., 10:30. Fall, Winter and Spring quarters.

Political Science 4. Municipal Government I. 3 Hrs.
Political Science 5. Municipal Government II. 3 Hrs.
Political Science 6. Municipal Government III. 3 Hrs.


Political Science 7. Political Theories and Parties I. 3 Hrs.
Political Science 8. Political Theories and Parties II. 3 Hrs.
Political Science 9. Political Theories and Parties III. 3 Hrs.

A study of the growth, organization and methods of operation of American political parties and of the development and history of political theories from Grecian times to the present day. Stress is laid on the parties and theories of America, especially of today. M., W., F., 8:30. Fall, Winter and Spring quarters.

Political Science 10. International Law I. 2 Hrs.
Political Science 11. International Law II. 2 Hrs.
Political Science 12. International Law III. 2 Hrs.

A general introductory study of the legal relations obtaining between states in time of peace and of war and particularly the contribution which the United States has made to International Law. A sufficient knowledge should be gained to help the student in making an independent analysis of international problems. T., Th., 9:30. Fall, Winter and Spring quarters.

This course is designed to awaken in the student a rational interest in both domestic and world political problems and movements of today. It is also recommended to students as a supplement to Political Science 1. Open to all students. T., Th., 10:30.

Political Science 15. History and Government of Ohio II. 2 Hrs.
Political Science 16. History and Government of Ohio III. 2 Hrs.

Early settlements, industrial and political development, the constitution and government. Open to all students who have completed Political Science 1 or equivalent. T., Th., 8:30.
Department of Psychology

PROFESSOR TRAINUM

Psychology 1. General Psychology I. 3 Hrs.
Psychology 2. General Psychology II. 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. Fall and Winter quarters.

Psychology 3. Psychology of Religion. 3 Hrs.
This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginnings of religion in the race. Special topic, 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. Spring, 1920.

Psychology 4. Social Psychology. 3 Hrs.
Mind is treated from the standpoint of its organizing, communicating function in social groups. 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. Spring, 1921.

Psychology 5. Teacher's Psychology. 5 Hrs.
A survey course in general psychology for beginners and a review for public school teachers. Summer quarter.

Department of Social Philosophy

PROFESSOR TRAINUM

Social Philosophy 1. Sociology I. 3 Hrs.
Social Philosophy 2. Sociology II. 3 Hrs.

A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social
order 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, and are required for B. A. and B. S. degrees. Fall and Winter quarters.

Social Philosophy 3. Sociology III. (Criminology) 3 Hrs.
A study in social pathology in which the principles laid down in Sociology I. and II. are applied and an effort made to find the cause and remedy for crime. Spring quarter.

Social Philosophy 4. Social Message of Jesus. 5 Hrs.
This course is an effort to get a social and ethical perspective of the life and teachings of Jesus in its present day application. The work consists of free discussions in the class-room and written themes based on the four gospels and recent works on the life of Christ. Credit will be given either for English Bible or an elective in Sociology. Summer, 1920.

Social Philosophy 5. Social Message of the Prophets 5 Hrs.
The prophets will be studied as Social and Political Reformers with a strong religious background. An attempt will be made to answer the question, did they bring to the people of their times, ideals and principles to be used in the solution of their own problems, which are equally useful to us in the solution of our social and political problems. Credit will be given either for bible or advanced Sociology. Summer quarter, 1921.

Partial List of Electives
In addition to the courses described above, candidates for degrees are allowed to present credits from the College of Commerce, Law, Music, the School of Expression or the College of Education as follows:

Commercial Science. Commercial Law, 5 hours; Stenography (with typewriting), 5 hours; Salesmanship, 5 hours.

Law. Elementary Law, 10 hours; Contracts and Constitutional Law, each 5 hours.

Music. Harmony, 8 hours; History of Music, 4; Theory of Music, 2; Counterpoint, 4.

Oratory. Oratory, 10 hours.

Education. History of Education, 9 hours; Principles of Education, 9 hours.
COLLEGE OF EDUCATION

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

JOHN DAVISON, M.S., M.Lit., Ped.D.,
Dean
History and Principles of Education and School Administration

WILLIAM H. TRAINUM, A.M.,
Psychology and Sociology

CARRIE ABEL WILSON, A.B.,
Methods and Principles of Teaching

RICHARD HOLMES SCHOONOVER, A.M.,
Methods in English, Critic Teacher

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English and History

ELLA KATHRYN ROTHROCK, A.B.,
Algebra and Geometry

EMMETT E. LONG, B.C.S.,
Penmanship and Public School Drawing

RUDOLPH H. RAABE, Ph.G., Ph.C.,
Methods and Principles of Teaching

FREDERIC THOMAS KILLEN,
Public School Music

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Normal Course in Art

Model School Teachers
(Summer Session)

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Principal, Grammar Grade Methods

ANNA MARIE VAUGHN,
Primary Methods

ESTHER PATRICK,
Domestic Science
Professional Training

The School Laws of Ohio prescribe that "Applicants for a one-year or a three-year elementary certificate who have taught in the public schools for one school year previous to the time of such application, unless said applicant is a graduate of a college or university of approved educational standing, shall possess an amount of professional training consisting of classroom instruction in a recognized institution for the training of teachers, not less than the following: After January 1, 1916, such applicant shall possess not less than six weeks of such instruction;" an additional six weeks requirement is added each year until "after January 1, 1921, not less than one year of such classroom instruction" is required. The law also requires special training in observation and practice teaching, and the sections prescribing professional and academic requirements of applicants for high school and special certificates have not been repealed.

In keeping with the requirements of advanced legislation, the Ohio Northern University has more than met the requirements of the Superintendent of Public Instruction and is on the "Accredited List" of recognized schools and colleges. 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 made permanent by the State Board of Examiners.

Requirements for Admission

"Graduation from a first grade high school or its equivalent." Those not having had this opportunity may complete such work here in the preparatory department. For a full description of the preparatory courses, see "The Preparatory School" elsewhere in this catalogue. Completion of either schedule is accepted as the equivalent of a first grade high school training.
## COURSES OF STUDY

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

**Degree:** Bachelor of Science in Education

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*Electives must be selected with reference to the subject or subjects which the student is preparing to teach. At least six quarters should be devoted to the major subject.
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DESCRIPTION OF COURSES

Educational Psychology

DR. DAVISON, PROFESSOR WILSON

Educational Psychology 1. Human Behavior. 2 Hrs. T., Th. Fall quarter.

Educational Psychology 2. Psychology of Common Branches. 2 Hrs. T., Th. Winter quarter.

Educational Psychology 3. Paidology. 2 Hrs. T., Th. Spring quarter.

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.

Educational Psychology 4. The Learning Process. 2 Hrs. T., Th. Fall quarter.

Educational Psychology 5. Psychology of H. School Subjects I. 2 Hrs. T., Th. Winter quarter.


Courses 4, 5 and 6 are open to students who have a working knowledge of psychological principles.

School Organization

DR. DAVISON

School Organization 1. Class Room Management 2 Hrs. T., Th. Fall quarter.


Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work.

School Administration

DR. DAVISON

School Administration 1. School Systems and Agencies. 2 Hrs. T., Th. Fall quarter.

Study of existing school systems and the relations of the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings.
School Administration 2. Secondary Education. 2 Hrs.
T., Th. Winter quarter.
Special study of courses of study, selection of teachers, reports, grading and records.
School Administration 3. Vocational Education. 2 Hrs.
T., Th. Spring quarter.

History of Education

DR. DAVISON

History of Education 1. Before the Middle Ages. 3 Hrs.
M., W., F. Fall quarter.
History of Education 2. During the Middle Ages 3 Hrs.
M., W., F. Winter quarter.
History of Education 3. Modern Times. 3 Hrs.
M., W., F. Spring quarter.
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 interests of both classes of students. Open to Liberal Arts students who have had psychology.

Principles of Elementary Teaching

PROFESSOR WILSON

Principles of Teaching 1. The Educative Process 3 Hrs.
M., W., F. Fall quarter.
Principles of Teaching 2. The Teaching Process. 3 Hrs.
M., W., F. Winter quarter.
Principles of Teaching 3. How to Teach. 3 Hrs.
Spring quarter.
Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practices.

Principles of Secondary Education

DR. DAVISON

M., W., F. Fall quarter.
M., W., F. Winter quarter.
M., W., F. Spring quarter.
The principles of education founded upon psychology, biology and sociology are studied to final working bases. The dogmatical is not attempted, but a rational view-point to-
wards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education.

Methods of Teaching

PROFESSOR WILSON AND DR. DAVISON

Methods of Teaching 1. General. (Elementary) I. 2 Hrs.
T., Th. Fall quarter.

Methods of Teaching 2. General. (Elementary) II. 2 Hrs.
T., Th. Winter quarter.

Methods of Teaching 3. General. (Elementary) III. 2 Hrs.
T., Th. Spring quarter.
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.

Method of Teaching 4. General. (High School) 3 Hrs.
M., W., F. Fall quarter.
This course is a study of a series of phases of the scientific methods of presenting high school subjects, and checking on the results.

Methods of Teaching 5. 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.

Methods of Teaching 6. Special. (Secondary) 3 Hrs.
M., W., F. Winter quarter.
Students taking this course will be divided into groups according to the subject they are preparing to teach. Each student must prepare a thesis on the better methods of teaching in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge.

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

No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit.

Hygiene
PROFESSOR WILSON AND DR. DAVISON

Hygiene 1. Health and Sanitation.  
Spring quarter.
This is a composite course comprising health work in the school, including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical development, and plays and games which promote physical and moral growth. Prescribed readings, lectures, actual participation in games with children, and sanitary surveys. Open to all students in the School of Education who are prepared to carry the course.

Hygiene 2. Educational Hygiene.  
Winter quarter.
This course is pursued by seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical supervision, school sanitation, play and recreation, and the teaching of hygiene.

The Observation of Teaching

Through the cooperation of the Ada public schools and the preparatory department of the University 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 a training 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 preparatory department. As in Observation, only a limited number can be accommodated at once, and special arrangement 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, three hours a quarter.

The Summer Quarter

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

For the summer of 1919, 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 schedule leading to a diploma and state certificate. On the completion of the special schedule of ninety class 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.

Lectures by eminent educational leaders of the country are regular features of the Summer School, and are free to the students of the University of whatever department.

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

For further particulars send for a Summer School Bulletin.

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.

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 officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

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

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

RICHARD HOLMES SCHOONOVER, A.M.,
Principal
English Grammar, Greek

HENRY WHITWORTH, A.B.,
Latin

WILLIAM CLAUDIUS GROTH, A.M.,
Modern Foreign Languages

WILLIAM HENRY FREUND,
Instructor in French

FRANK LEWIS BERGER, A.B.,
Physics

English and History

ELLEN KATHRYN ROTHROCK,
Algebra, Geometry

Physiology, Botany

The Preparatory School is organized for the purpose of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first-class high schools.

The courses of study in the preparatory school are arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The time value of a unit is 120 clock-hours of class periods; two hours of laboratory work considered equivalent to the one recitation or class period.

The subjects, distributed by years and terms as shown in the schedules following, are to be taken, as far as possible, in the order indicated.
If a student, on completing the preparatory curriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. This certificate is accepted in lieu of entrance examinations by the Ohio State University and other leading colleges, Ohio State Medical Board, and by the Supreme Court of Ohio in lieu of the "preliminary" to the bar examinations.

Preparatory to Collegiate Courses for A.B. Degree

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<th>FIRST YEAR</th>
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<tr>
<td>English Composition</td>
<td>Preparatory Rhetoric 1</td>
<td>Physics 3</td>
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<tr>
<td>Algebra 1</td>
<td>Plane Geometry 2</td>
<td>Ancient History</td>
</tr>
<tr>
<td>Beginning Latin 1</td>
<td>Caesar 2</td>
<td>Cicero 3 and Virgil 1</td>
</tr>
<tr>
<td>Adv. English Grammar</td>
<td>Preparatory Rhetoric 2</td>
<td>English Lit. 2</td>
</tr>
<tr>
<td>Algebra 2</td>
<td>Plane Geometry 3</td>
<td>Med. and Mod. Hist. 1</td>
</tr>
<tr>
<td>Beginning Latin 2</td>
<td>Greek 1 or German 1</td>
<td>Virgil 2</td>
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<tr>
<td></td>
<td>or French 1 or</td>
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<td></td>
<td>Spanish 1</td>
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<tr>
<td>English Literature 1</td>
<td>Cicero 1</td>
<td>English Lit. 3</td>
</tr>
<tr>
<td>Algebra 3</td>
<td>Physics 1</td>
<td>Med. and Mod. Hist. 2</td>
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<td>Beginning Latin 3</td>
<td>Greek 2 or German 2</td>
<td>Anabasis 1 or German</td>
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<td>or French 2 or</td>
<td>4 or French 4 or</td>
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<tr>
<td>Preparatory Botany</td>
<td>Physics 2</td>
<td>American Lit.</td>
</tr>
<tr>
<td>Plane Geometry 1</td>
<td>Cicero 2</td>
<td>Virgil 3</td>
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<td>Caesar 1</td>
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# Preparatory to Collegiate Courses for B.S. Degree

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<td>Plane Geometry 2</td>
<td>Ger. 4 or French 4 or Spanish 4</td>
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<td></td>
<td>Caesar 2</td>
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<td>Advanced English Grammar</td>
<td>Preparatory</td>
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<td>Algebra 2</td>
<td>American History</td>
<td>Med. and Mod. Hist. 1</td>
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<td>Plane Geometry 3</td>
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</tr>
<tr>
<td>Algebra 3</td>
<td>Spanish 1</td>
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<tr>
<td>Beginning Latin 3</td>
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<tr>
<td>Preparatory Botany</td>
<td>Physics 1</td>
<td>English Lit. 3</td>
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<tr>
<td>Plane Geometry 1</td>
<td>Prep. Rhetoric 1</td>
<td>Med. and Mod. Hist. 2</td>
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<td>Spanish 2</td>
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## DESCRIPTION OF COURSES

### English

1. **English Composition.** (Sykes). This course includes a brief review of grammar, theme writing, paragraph writing, sentence structure, word study, capitalization, punctuation; the writing of letters, telegrams, business forms, et cetera. Some attention is given to versification. Stevenson's "Treasure Island" is read. Short daily themes are required.

2. **Rhetoric I.** (Brooks). Narration and description. This course is closely co-ordinated with English literature. Stevenson's "Kidnapped" is carefully studied. The theme work is largely based upon the literature the student has studied. Three short themes are required each week, and one long theme for the quarter. Prerequisite: Course I.

3. **Rhetoric II.** (Brooks). Exposition and argumentation. The aim of this course is to teach the student to write clearly. The theme work is based upon physics, physiography, civics, history and literature.
There is practice in brief making and debating. Macaulay's Essays on Lord Clive and Warren Hastings are carefully studied. Prerequisite: Course 2.

4. **English Literature I.** This course is designed for those beginning the study of English literature. The following classics are read: Shakespeare's The Merchant of Venice; Coleridge's The Rime of the Ancient Mariner; Scott's The Lady of the Lake; Goldsmith's The Deserted Village; Goldsmith's The Vicar of Wakefield; Gray's Elegy; Scott's Ivanhoe. Attention is given to the biographies of the authors and to versification. Prerequisite: Course 1.

5. **English Literature II.** (Long). This course includes (1) a study of the History of English literature to the Age of Romanticism; and (2) the study of the following classics: Eliot's Silas Marner; Browning's Shorter Poems; Thackeray's English Humorists; Palgrave's Golden Treasury; Shakespeare's Julius Caesar, and selections from Huxley. Prerequisite: Course 4.

6. **American Literature.** (Halleck). A brief survey of the history of American literature is given. The following classics are read: Selections from Lincoln; Irving's Sketch Book; selected poems of Bryant, Longfellow, Whittier, Poe, Lowell, Lanier; Hawthorne's The House of Seven Gables.

7. **English Literature III.** (Long). This course includes (1) the history of English literature beginning with the Age of Romanticism; and (2) the study of the following classics: Carlyle's Essay on Burns; or Macaulay's Life of Samuel Johnson; Burke's Speech for Conciliation, or Washington's Farewell Address and Webster's First Bunker Hill Address; Shakespeare's Macbeth or Hamlet; Milton's Comus, L'Allegro, Il Penseroso. In each of the courses 4, 5, 6, and 7, a number of short papers are required. Prerequisite: Course 6.

**Mathematics**

1. **Algebra I.** (Wentworth). Algebraic notation, simple equations, positive and negative numbers, fundamental processes as applied to algebraic numbers, special rules, factoring, common factors and multiples.


3. **Algebra III.** (Wentworth) Imaginary expressions, quadratics, ratio and proportion, progressions, variables and limits, properties of series, binomial theorem, logarithms.

4. **Geometry I.** Plane. (Wentworth and Smith). Principles, propositions and originals. Special stress is laid on original work in all courses.


7. **Geometry IV.** Solid.

**History**

1. **Ancient History.** (Myers, Davis’s Readings). An introductory study of the ancient nations, especially Greece and Rome, and the chief events of the early Middle Ages, down to the death of Charlemagne (814). Offered every Fall quarter and also in the summer of 1919.

2. **Mediaeval and Modern History I.** (Myers, Emerton). A brief review of ancient and early mediaeval history; then, as thorough a study as time will permit of the period from Charlemange to the Reformation. Winter quarter.

3. **Mediaeval and Modern History II.** (Myers, Scherill). As thorough a study as possible of the leading events and institutions and dominant personalities of the modern period. Spring quarter.

4. **English History.** (Cheyney, text and readings). An introductory study of the growth of the English nation. Fall quarter.

5. **American History.** (Channing, Hart’s Source Book). An elementary course in the history of the American nation from 1492 to the present time. Offered every winter quarter and also in the summer of 1919.

6. **Civics.** (Guitteau). An elementary course in American government. Spring quarter.

**Science**

1. **Physics I.** (Mann and Twiss). Class work and individual laboratory work in motion, force, energy, machine, properties of matter and dynamics of fluids. Four hours a week the first half of the quarter and six hours a week the last half are spent in individual laboratory work by each student.

2. **Physics II.** (Mann and Twiss). Lectures and recitations on sound, heat and light. Each student spends sixty hours in individual laboratory work on these subjects.

3. **Physics III.** (Mann and Twiss). Lectures, recitations and demonstrations in magnetism and electricity. Sixty hours in experimental demonstrations, measurements and testing are required of each student.

4. **Physiology I and II.** A course in Human Physiology for teachers and for students preparing for examinations. The laboratory work covers the Harvard Entrance Requirements, and much of it can be adapted to schools where the teacher and pupils furnish all of the apparatus and materials. Many demonstrations are given by the instructor which are too difficult for the student to do alone. Students
are assigned desk outfits, two at each table, for the purpose of assisting each other in manipulation and observation.

5. Physical Geography. A study of earth forms and processes and the geography of plants and animals. The work is based upon Salisbury's Physiography (briefer course), and due attention is given to laboratory and field work.

6. Preparatory Botany. (Phanerogamic). A study of the germination, growth and reproduction of flowering plants, including plant structure, physiology and classification. The subject matter of this course is similar to the work of the best high schools that are well equipped and do a large amount of laboratory work.

Latin


2. Caesar's Gallic War. Books II., III., IV., (or equivalent) and prose composition. Five hours a week. Two quarters. Emphasis is laid on prose composition as a means of acquiring a working knowledge of Latin syntax. Walker's or any quantity-marked text, is used. Mitchell's The Art of Writing Latin.

3. Cicero and prose composition; six orations, including the four against Catiline and the Manilian Law. Five hours a week. Two and one-half quarters. Allen and Greenough, or any quantity text, is used. Mitchell's The Art of Writing Latin.


Greek


2. Xenophon's Anabasis. Four books. Goodwin's text. Five hours a week. Two quarters.

German

1. German I. Pronunciation, elements of grammar, easy reading, practice in speaking and writing German.

2. German II. Continuation of course 1.

3. German III. Drill on grammar, memorizing of colloquial sentences, readings, translations of colloquial praxis.

4. German IV. Reading and translation of masterpieces of representative German authors, study of syntax, prose composition, conversational praxis.

5. German V. Study of German classics, prose composition.
French

1. French I. Pronunciation, grammar, reading, composition and oral exercises.
2. French II. Continuation of course I.
3. French III. Reading, grammar and exercises.
4. French IV. Reading and translation of French masterpieces, studies in syntax, conversational praxis.
5. French V. Study of French classics, conversational praxis.
COLLEGE OF ENGINEERING

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

THOMAS JEFFERSON SMULL, Arch., C.E.,
Executive Secretary

CHARLES ADDISON MILLER, C.E.,
Dean
Civil Engineering

JOHN ALFRED NEEDY, B.S., M.E.
Mechanical Engineering

FLOYD FRED TURNER, E.E.,
Electrical Engineering

WIGHTMAN S. BECKWITH, A.M.,
Higher Mathematics

ELLEN KATHRYN ROTHROCK, A. B.,
Mathematics

LENIX CRAIG SLEESMAN, Pharm.C.,
Chemistry

FRANK LEWIS BERGER, A.B.,
Physics

--------------------------------------------
Geology and Mineralogy

--------------------------------------------
Metallurgy

WILLIAM CLAUDIUS GROTH, A.M.,
Modern Languages

CHILDE HAROLD FREEMAN, B.S.,
English

WILLIAM WESLEY RUNSER, LL.B.,
Contracts
Aim

The courses offered aim at laying a groundwork of sound theory and, at the same time, imparting such instruction in the usual professional practice as shall equip the student for efficiency in any position to which he may be called. The technical branches are taught by scientifically trained teachers of experience in practical engineering.

By omitting subjects not directly bearing on Engineering, the time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern to about two and a half years. An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the long period of four years in preparing for a vocation.

To accommodate those desiring the culture gained through the study of the "liberal arts and sciences" in addition to the thorough technical training, the College of Liberal Arts is open to all Engineering students free of extra tuition.

Admission

Students presenting certified credits for the subjects required for entrance to the respective courses set forth in the following pages are permitted to register as candidates for the corresponding Engineering degrees. For prerequisites and description of courses see special bulletin. Preparatory work may be taken here, separately, or in connection with advanced work.

A liberal policy is pursued in giving credit for work done in other colleges. Some credit also is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

In view of the fact that each 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. The best time to enter, however, is at
the beginning of the quarter. See calendar.

Options

With the advice and consent of the professor in charge,
certain subjects may be elected in the various courses to take
the place of such as may not appeal to the student in his
chosen vocation. These are termed options and are mentioned
in the schedules of the courses.

CIVIL ENGINEERING

The technical instruction includes drawing, surveying, rail-
road engineering, strength of materials, roofs, bridges, founda-
tions, arches, retaining walls, dams, waterworks, river and
harbor improvements, sewerage, drainage, hydraulics, water
power and geodesy.

Much time is devoted to the study of steel construction,
during which the student is made familiar with the computa-
tion of stresses, designing, detailing and drawing of roofs,
bridges and steel structures of all kinds. Those so desiring
may elect advanced work in hydraulics and sewerage, instead
of a portion of the structural work of this schedule. The sub-
ject of roads and pavements, railroad construction and main-
tenance and masonry structures are exhaustively treated.
Special attention is given to land, topographical stadia and
city surveying and leveling. Besides the undergraduate work,
special and more elaborate study is arranged for those wishing
to prepare for particular positions.

The college is supplied with high-grade instruments and
appliances necessary for first-class instruction and practice.
The laboratories are well-equipped, the draughting room large
and modern, the scientific library excellent.

Instruction is given through class-room exercises, field work
and practical drawing and designing. The end in view is to
fit men to act as county and city engineers, surveyors, railroad
engineers, bridge engineers, structural engineers, hydraulic en-
gineers, and government geodetic engineers.
## Schedule

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### OPTIONS

- Machine Design, 4; Metallurgy, 2½; Mineralogy, 2½; Water Supply, 4; Electrical Machinery I, 5; Advanced English or Advanced German or other modern languages, 8.
- Note—200 credit hours required for graduation.
- Note—2 hours field work constitutes 1 credit hour.
- Maximum number of hours per week—23.
- Minimum number of hours per week—15.

## ELECTRICAL ENGINEERING

The courses offered in this branch of Engineering embrace a thorough study of theoretical and applied electricity.

The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering curri-
culums, including the fundamental engineering sciences, mathematics, drawing and surveying. The last half consists of courses of study in stresses, graphics, strength of materials, hydraulics, steam engines, advanced study in the theory of electricity, a large amount of laboratory research and experiment, shop tests, plant testing, meter testing, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine construction.

The theoretical work is supplemented with practical application in the laboratory and in the design of electrical machinery.

In addition to an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. A gas-engine-driven electric lighting system has been installed for lighting the University buildings and grounds. Both for lighting the University buildings and grounds. Both this plant and the plant of the Ada Water, Heat & Light Company are available for inspection and tests by students. In the laboratory, both direct and alternating currents are available for testing purposes. All the service meters of the local lighting company are repaired and calibrated in the University Electrical Laboratory, thus giving the student unexcelled opportunity for studying meter design and operation.

### Schedule

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Thermo. I. 5
El. Elec. Mach. II. 5
Mech. Materials II. 5
Stresses I. 5

NINTH QUARTER
Elec. Mach. VI. 5
Elec. Mach. VII. 5
Hydraulics II. 3
Hydraulic Lab. 2
Steam Turbines 5

EIGHTH QUARTER
Elec. Mach. V. 5
Telephone Engineering 5
Hydraulics I. 5
Plane Surveying 5
Seminar 1

TENTH QUARTER
Elec. Rys. 2½
Elec. Circuits 2½
Adv. A. C. 5
Elec. Mach. IX.a 4
Elec. Mach. IX.b 4
THESIS

OPTIONS
Descriptive Geometry II., 4; Electric Meters, 4; Storage Batteries, 4; Telephone Engineering, 4; Metallurgy, 2½; Railroad Engineering, 5; Gas Engines, 5; Adv. A. C. Lab., 2½; Differential Equations, 4; Adv. Eng. or Adv. German or other modern languages, 8.

Note—200 hours are required for graduation.
Note—Two hours laboratory work constitutes one credit hour.

Maximum number of hours per week—23.
Minimum number of hours per week—15.

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 the usual mechanical engineering studies are pursued. Thorough training is given in machine drafting, machine designs, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

The University has its own gas-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This 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 Heating and Light Co., with its equipment of Corliss engines, high pressure cold and hot water pumps, boilers, et cetera, is open to the students for inspection and test.

The University, because of increasing power demands, contemplates building in the near future a modern power plant equipped with oil and gas engines of the latest type, with a
view to making it a part of the mechanical laboratory, in which
tests for efficiency and fuel consumption may be easily and
quickly made. The work of installing will be done largely by
student help, who thus will get practical experience in moving
and erecting engines, switch-boards, storage batteries, etcetera.
Since the plant will be operated by student help, additional
practical experience will be gained.

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**OPTIONS**

- Reinforced Concrete, 3; Heating and Ventilation, 4; Gas Engine Design, 4; Steam Piping System, 4; Producer Gas and Gas Producer, 4; Advanced English, Advanced German or other modern languages, 8.

Note—200 hours are required for graduation.

Note—Two hours laboratory work constitutes one credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.
MUNICIPAL AND SANITARY ENGINEERING

The instruction consists of the basic engineering sciences, and most of the general civil engineering subjects, special attention being paid to those branches which have to do with the public health. This calls for a better knowledge of chemistry, bacteriology and sanitation than can be obtained in the usual courses in Civil Engineering, and additional work is given in topographical surveying, water supply, sewer design, sewage disposal, roads and pavements and precise surveying.

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Note—200 hours are required for graduation.
Note—2 hours laboratory work constitutes 1 credit hour.
Maximum number of hours per week—23.
Minimum number of hours per week—15.
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.

Schedule

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</thead>
<tbody>
<tr>
<td>Storage Batteries</td>
<td>4</td>
</tr>
<tr>
<td>Hydraulics I</td>
<td>5</td>
</tr>
<tr>
<td>Elect. Mach. V</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry VI</td>
<td>5</td>
</tr>
</tbody>
</table>

NINTH QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mach. Design I</td>
<td>4</td>
</tr>
<tr>
<td>Mech. Lab. I</td>
<td>4</td>
</tr>
<tr>
<td>Hydraulics II</td>
<td>3</td>
</tr>
<tr>
<td>Hydraulic Lab.</td>
<td>2</td>
</tr>
<tr>
<td>Graphics</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry VII</td>
<td>5</td>
</tr>
</tbody>
</table>

TENTH QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics I</td>
<td>5</td>
</tr>
<tr>
<td>Steam Engines</td>
<td>4</td>
</tr>
<tr>
<td>Electro Metallurgy</td>
<td>2½</td>
</tr>
<tr>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry X</td>
<td>5</td>
</tr>
<tr>
<td>THESIS</td>
<td></td>
</tr>
</tbody>
</table>

Note—200 hours are required for graduation.
Note—2 hours laboratory work constitutes 1 credit hour.
Maximum number of hours per week—23.
Minimum number of hours per week—15.

STRUCTURAL DRAFTING

Many young men for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but would
gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such this schedule has been arranged, on completion of which a certificate will be granted, which should prove to be a valuable passport into the modern drafting room. There is no preparation other than the grades necessary to enter this course.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>THIRD QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra I.</td>
<td>Algebra III.</td>
<td>4</td>
</tr>
<tr>
<td>English Composition</td>
<td>Geometry III.</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I.</td>
<td>Mechanical Drawing III.</td>
<td>4</td>
</tr>
<tr>
<td>Geometry I.</td>
<td>Descriptive Geometry I.</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Business English</td>
<td>4</td>
</tr>
<tr>
<td>SECOND QUARTER</td>
<td>FOURTH QUARTER</td>
<td></td>
</tr>
<tr>
<td>Algebra II.</td>
<td>Algebra IV.</td>
<td>4</td>
</tr>
<tr>
<td>Geometry II.</td>
<td>Machine Design I.</td>
<td>5</td>
</tr>
<tr>
<td>Preparatory Rhetoric I.</td>
<td>Descriptive Geometry II.</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing II.</td>
<td>Graphic Statics</td>
<td>4</td>
</tr>
<tr>
<td>Physics I.</td>
<td>Trigonometry I.</td>
<td>4</td>
</tr>
</tbody>
</table>

THESES

Every candidate for a degree must prepare a thesis upon some technical or scientific study, which lies within the field of the degree sought, and may be either designing, construction, testing or research; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

The form of the finished thesis must be in accordance with the requirements of the department and the library and be deposited with the Dean at least four weeks before the conferring of the degree.

DEGREES

The University is empowered to grant the customary scholastic degrees.

The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree is required to do a reasonable portion of his work here. No diploma is granted on grades made wholly in other institutions. No student carrying more than two subjects will be excused from the final examinations during the senior quarter.
SEMINAR

Weekly conferences are held for the purpose of discussing current engineering events and topics.

STUDENT TECHNICAL ORGANIZATIONS

The Ohio Northern Society of Engineers assembles weekly, to read papers and discuss subjects of interest to all engineering students. During the year a number of practicing engineers are invited to address the society on timely and practical topics. All engineering students are eligible to membership.

The Ohio Northern University Branch of the American Institute of Electrical Engineers hold monthly meetings at which original papers and papers printed in the Proceedings of the American Institute of Electrical Engineers are read and discussed. All students interested in electrical engineering are eligible to membership in this Society.

On February 24, 1919, Mr. C. E. Drayer, Secretary of the American Association of Engineers organized a student chapter here. The A.A.E. is a national organization of considerable prominence. All engineering students are eligible to membership who give promise of developing into successful engineers.

EXPENSES

See pages 21, 22, and 23 of this bulletin.

DESCRIPTION OF COURSES

For description of courses and daily schedule of classes, see special Engineering Bulletin.
COLLEGE OF LAW

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.
President

WILLIAM WESLEY RUNSER, LL.B.,
Dean
Professor of Law

ELLAHUE ANSILE HARPER, A.M., LL.B.,
Professor of Law

JAMES RALPH SPELLMAN,
Instructor in Law

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

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 anyone 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 examinations for admission to the bar.

(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 College of Law occupies commodious rooms in the new Lehr Memorial building. Its good working library is now larger and better suited to the work of the College than ever before in its history, several important and valuable sets, including the American Digest System and Lawyer's Reports Annotated, both series, and a set of the best edition of the United States Supreme Court Reports, having been added recently.

Outline of Courses

(In the following outline, the figure preceding the name of the course indicates the number of the course; that following, the number of credit hours given for the satisfactory completion of the course. A credit hour is given for the satisfactory completion of work requiring one class period a week for one quarter).

<table>
<thead>
<tr>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALL QUARTER</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Second Year

15. Private Corporations  5  20. Pleading I  5  23. Real Property II  5

Third Year

31. Quiz A  5  35. Quiz B  5
34. Quiz B  5

Lectures are given on legal ethics, legal history, international law and court practice.

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 dean, 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.

Moot Court

Moot Court, under the direct supervision of the faculty forms a regular part of the work, in which each student is ex-
pected 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, motions and journal entries, together with the principles of proceeding 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.

Admission

Students may enter the College at any time, but, in order to receive full credit toward graduation, for work done, must enter at the beginning of a quarter.

At the beginning of the college year 1917-1918, the following rules as to the admission to the College became effective:

Candidates for a degree will be required, upon their application for admission, to furnish satisfactory evidence of graduation from a first-grade high school, or from a school of equivalent standing.

Students not candidates for a degree may enter upon proving, to the satisfaction of the Dean, that they possess such general education as will enable them to pursue the study of law intelligently. Special effort will be made, as in the past, to offer such students every reasonable advantage, and special attention will continue to be given to the needs of special students who are preparing for the examinations for admission to the bar.

Preliminary to Bar Examination

The preliminary literary work required for admission to the Bar examination may be taken in the University under the regular law tuition, and a certificate showing the completion of either of the courses in the Preparatory School admits the student to the Bar examination in this state, without a preliminary examination.

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study.

The following conditions as to graduation will be enforced:
Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law, not only as to the length of time spent in study, but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

Credit toward graduation will be given for not more than two years' study of law in residence in any reputable law school in the United States maintaining a three years' course of study, and proper credit will be given for study in residence in any reputable law school in the United States maintaining a course of study less than three years in length.

No credit will be given for correspondence school work.

No student will be graduated who has not studied law for a period equivalent to nine college quarters, of which time a period equivalent to at least six quarters must have been spent in residence at some reputable law school, and of which at least the last three quarters must have been spent in residence in this College of Law.

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per 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 is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see pages 21, 22 and 23 of this bulletin.
COLLEGE OF COMMERCE

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

EMMET ELIJAH LONG, B.C.S.,
Dean
Bookkeeping, Banking, Salesmanship, Finance, Business Administration

Penmanship, Show Card Lettering, Commercial Arithmetic, Rapid Calculation, Business Organization

PAULINE IRENE CHRISTIE, Grad. Sten.,
Stenography, Typewriting, Business English, Commercial Correspondence, Secretarial Instruction

WILLIAM WESLEY RUNSER, LL.B.,
Contracts, Negotiable Paper, Insurance

Economics

WILLIAM CLAUDIUS GROTH, A.M.
German, French, Spanish

JOHN DAVISON, M.S., Ped.D.,
Principles of Education, School Administration

CARRIE ADIEL WILSON, B.E.,
Methods and Principles of Teaching, Advanced Arithmetic

RICHARD H. SCHOONOVER, A.M.,
English Grammar

English Composition

Assistant in Bookkeeping
Aim

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

Location and Equipment

This College occupies the entire third floor of Lehr Memorial, recently equipped throughout with up-to-date fixtures and office furnishings for class use, Remington and Monarch Typewriters, Burrough's adding machine 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 on previous educational preparation, aptness and application; the combined Business and Secretarial course, approximately five quarters; the Commercial Teachers' Normal course, six quarters; the course in Business Administration, from nine to twelve 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

The degree, "Bachelor of Commercial Science," is conferred on students completing the course in Business Administration; those completing the Commercial Teachers' Normal course are granted a diploma with the rank, "Graduate of Pedagogy in Commercial Science;" persons completing the Combined Business and Secretarial course are ranked "Graduate in Bookkeeping and Stenography;" students completing the shorter course are certified and graduated with the rank, "Grad-
uate in Bookkeeping" and "Graduate in Stenography," respectively.

The cost of the diploma is $5.00; certificates, $1.00. Those desiring parchment will pay one dollar additional.

Special Students

Those not caring to pursue a prescribed course of study, if able to meet the requirements for either regular or special students, may be admitted as special students, at the discretion of the Dean. They will be given credit for whatever work is completed, and 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 Combined course, and the Teachers' Normal 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 a course "piecemeal" until completed.

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 College 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 College of Commerce additional privileges: Admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of obtaining military instruction, of participating in literary work in the three literary
societies; and the benefits of college environment and associations, lectures, athletic tournaments, contests, et cetera.

**Teachers' Normal Commercial Training**

The Commercial Teachers' Normal Course, outlined hereafter, meets the present legal requirements for accrediting, and the College 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 schools and educational institutions.

**Short Bookkeeping Course**

(Certificate—Graduate in Bookkeeping. Prerequisite:
A common school education.)

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
<th>THIRD QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Bookkeeping and Accounting</td>
<td>Practical Bookkeeping and Accounting</td>
<td>Office and Banking Practice</td>
</tr>
<tr>
<td>Advanced Arithmetic</td>
<td>Commercial Arithmetic</td>
<td>Commercial Law</td>
</tr>
<tr>
<td>English Composition or English Grammar</td>
<td>Business English</td>
<td>Typewriting and Manifolding</td>
</tr>
<tr>
<td>Rapid Calculation Penmanship</td>
<td>Typewriting Spelling</td>
<td>Salesmanship</td>
</tr>
</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 College.

**Short Course in Stenography**

(Certificate—Graduate in Stenography. Prerequisite:
A common school education.)

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
<th>THIRD QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stenography I. Typewriting</td>
<td>Stenography II. Penmanship</td>
<td>Stenography III. Office Practice</td>
</tr>
<tr>
<td>English Composition or English Grammar Spelling</td>
<td>Business English Typewriting and Manifolding</td>
<td>Typewriting and Multigraphing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Penmanship</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commercial</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Correspondence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commercial Law</td>
</tr>
</tbody>
</table>
Combined Business and Secretarial Curriculum

(Rank—Graduate in Bookkeeping and Stenography. Prerequisite: A common school education.)

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
<th>THIRD QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introductory Bookkeeping and Accounting</td>
<td>Practical Bookkeeping and Accounting</td>
<td>Office Practice and Banking</td>
</tr>
<tr>
<td>Advanced Arithmetic</td>
<td>Commercial</td>
<td>Stenography I.</td>
</tr>
<tr>
<td>English Composition or English Grammar</td>
<td>Arithmetic</td>
<td>Business English</td>
</tr>
<tr>
<td>Penmanship</td>
<td>Typewriting I.</td>
<td>Typewriting II.</td>
</tr>
<tr>
<td>Rapid Calculation</td>
<td>Spelling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Commercial Law</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH QUARTER</th>
<th>FIFTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stenography II.</td>
<td>Stenography III.</td>
</tr>
<tr>
<td>Typewriting III.</td>
<td>Secretarial Work</td>
</tr>
<tr>
<td>Commercial</td>
<td>Typewriting and</td>
</tr>
<tr>
<td>Correspondence</td>
<td>Manifolding</td>
</tr>
<tr>
<td>Salesmanship</td>
<td>*Elective (to be as-</td>
</tr>
<tr>
<td></td>
<td>signed by instructor)</td>
</tr>
</tbody>
</table>

*Electives in this course bear particularly on the line of work the student expects to follow.

Students pursuing the “combined” course are advised to arrange for remaining steadily at the work for five successive terms, if possible, beginning with the Fall quarter.

Commercial Teachers’ Normal Course

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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology I.</td>
<td>Principles of Education I.</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Bookkeeping</td>
<td>General Methods</td>
</tr>
<tr>
<td>7½</td>
<td>2</td>
</tr>
<tr>
<td>Penmanship</td>
<td>Stenography I.</td>
</tr>
<tr>
<td>2½</td>
<td>5</td>
</tr>
<tr>
<td>Rapid Calculation</td>
<td>Typewriting I.</td>
</tr>
<tr>
<td>1½</td>
<td>2½</td>
</tr>
<tr>
<td>Business English</td>
<td>School Organization I.</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>School Law</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Educational Psychology II.</td>
<td>Principles of Education II.</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Practical Bookkeeping and Accounting</td>
<td>General Methods I.</td>
</tr>
<tr>
<td>(actual business)</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Special Methods</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Commercial Arithmetic</td>
<td>Stenography II.</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Commercial Geography</td>
<td>Typewriting II.</td>
</tr>
<tr>
<td>5</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>School Organization II.</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
Educational Psychology III. ... 2
Office and Banking Practice
(laboratory method) ... 7 1/2
Commercial Law ... 5
Salesmanship ... 5

Practice Teaching or
Observation ... 5
General Methods II ... 2
Economics ... 5
Stenography III ... 5
School Organization III ... 2

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.
One hour instruction on the laboratory plan, five days the week, counts 2 1/2 credit hours.
Length of class-exercise, fifty-five minutes.
Maximum number of hours permitted a week, twenty; minimum, fifteen.

Description of Courses

Introductory Bookkeeping. A thorough study of the principles underlying bookkeeping and accounting, with business practice (budget system). Class exercises and laboratory practice daily.

Practical Bookkeeping and Accounting. Each student is given a capital with which he launches into business for himself. He carries on transactions with his classmates, handles all forms of commercial papers and blanks, and uses daily the current market quotations; he deals with three banks and several offices, does business as individual proprietor, with one partner, with two partners, with three partners, and completes the work as a corporation, requiring the changing from a partnership set of books to a corporation set. Prerequisite: Introductory Bookkeeping.

Office Practice. A continuation of actual business practice, in offices of various kinds, in which the blank books peculiar to each business house are used. The particular branches of business represented in this practice are Real Estate and Insurance, Stock Exchange, Commission, Freight, Wholesale and Retail, and Post Office.

Banking. Three banks are in constant operation, doing on the average as much business as a regular small city bank. From a clerical standpoint each is conducted in a different manner, but there is little variation in the amount of business done by each. Up-to-date methods, in keeping with recent federal laws, and modern books, forms, stationery and appliances are used. The student acts severally as teller, cashier, bookkeeper, draft clerk, and manager of the entire banking business. Credit is allowed for work of high standard only. Prerequisite: A thorough knowledge of bookkeeping and accounting.

English Composition. Prerequisite to Business English for students not graduates of a high school or from equivalent courses of study, and for those deficient in preliminary English training. See Preparatory School.
Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all schedules.

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 College of Commerce take a thorough review of that subject when beginning.

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 Graham System is taught to all beginners, but the department is prepared to teach any other leading Pitmanic system to commercial teachers who are required to teach any of them. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation classes and write their own systems.

Typewriting and Multigraphing. All students pursuing regular courses in the College 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 every phase of the work required of typewriters.

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 $3.00 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 Dean.

Secretarial Duties. Practical training in secretarial work, including the performance of these duties, under direction of the instructor, for the Deans of the University, business men of the city and others requiring the services of secretaries from time to time.
Penmanship and Lettering. The best systems of writing are 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 College 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.

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.

TUITION—PENMANSHIP

Ornamental penmanship, pen drawing, card writing and show card writing, one hour per day, per quarter. $4.50

General penmanship free to students of all departments.

All students in the College 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, pages 21, 22 and 23 of this bulletin.
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 hours of class room instruction and 350 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 1887, with constantly added facilities and enlarged plans, is endeavoring to prepare 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 the least expenditure of time and money. Equipment, courses offered and facilities for work unsurpassed.

Excellent opportunity for registered "Assistants," if graduates of a recognized college, who wish to review for examination as "Pharmacists."

Young women admitted on an equality with young men.

The Ohio Board of Pharmacy and the Pennsylvania State Pharmaceutical Examining Board grant recognition to the graduates of the O. N. U. College of Pharmacy, who have matriculated since September 1, 1905.

Laboratories

The College 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. For advanced courses there is a complete outfit for gold and silver assaying and other metallurgical work. 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.

A Microscopical Laboratory has been installed and equipped with a supply of fine instruments for individual microscopic investigation. Fee $6.00 per year.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmacy.
"The minimum educational requirement for this certificate is the equivalent of eight units as given in a high school of the state of Ohio."

The State Board of Pharmacy announces as follows:

"Two units of credit may be procured by examination in each of the following subjects: Latin, German, English, Manual Arts and Home Economics; one unit of credit in each of the following subjects: Algebra, Plane Geometry, General Science, World History and General History; one-half unit of credit in each of the following subjects: Biology, Botany, Physical Geography, General Geography, Physiology, Bird and Animal Study, English History, Advanced American History, Civics, Commercial Geography, Business Correspondence and Bookkeeping.

Those wishing to pursue the three-year's course of study leading to the degree of Pharmaceutical Chemist (Ph.C.) must present an entrance certificate from the State Examiner and before entering upon the last year of study satisfactory evidence of having completed a course of instruction equivalent to that of first grade High School.

Persons wishing to pursue the four-year course of study leading to the degree of Bachelor of Science in Pharmacy (B.S.) must present an entrance certificate from the state examiner and satisfactory evidence of having completed a course of instruction equivalent to that of first grade High School.

Students from other 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.

When to Enter

The College of Pharmacy, therefore, opens on Tuesday, September 30, 1919, and continues thirty-two 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 authorities. To enter the regular courses the student must present an entrance certificate from the State Examiner,
matriculate, and pay tuition and fees as given elsewhere in this bulletin.

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

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

Schedule
Degree: Pharmaceutical Graduate

FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Physiology</td>
<td>General Materia Medica</td>
</tr>
<tr>
<td>Physics</td>
<td>Pharmaceutical Botany I.</td>
</tr>
<tr>
<td>General Inorganic Chem. I.</td>
<td>General Inorganic Chem. II.</td>
</tr>
<tr>
<td>Pharmaceutical Arithmetic</td>
<td>Pharmaceutical Latin</td>
</tr>
<tr>
<td>Pharmaceutical Botany II.</td>
<td>Posology</td>
</tr>
<tr>
<td>General Inorganic Chem. III.</td>
<td>General Inorganic Chem. III.</td>
</tr>
<tr>
<td>Pharmaceutical Technique</td>
<td>Pharmaceutical Technique</td>
</tr>
</tbody>
</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacognosy I.</td>
<td>Pharmacognosy II.</td>
</tr>
<tr>
<td>Pharmacy I.</td>
<td>Pharmacy II.</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Materia Medica</td>
<td>Materia Medica</td>
</tr>
<tr>
<td>Quantitative Analysis I.</td>
<td>Quantitative Analysis I.</td>
</tr>
<tr>
<td>Pharmacy III.</td>
<td>Pharmacy III.</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

1440 clock hours are required for graduation.

For courses of study leading to the degrees of Pharmaceutical Chemist (Ph.C.) and Bachelor of Science in Pharmacy (B.S.), inquire of Dean.

DESCRIPTION OF COURSES

Materia Medica Section

Physiology. An elementary course in human anatomy and physiology to prepare the student for the intelligent understanding of the action of drugs. 60 hours.

General Materia Medica. In this course the student becomes acquainted with the general classification of drugs and medicines which have specific uses, such as astringents, carthartics, emetics, nervines, sedatives, tonics and the like. 15 hours.
Pharmaceutical Botany I. 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, recitations, and laboratory. 80 hours.

Pharmaceutical Botany II. The cell, cell contents, structure 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 are considered. Lectures, recitations, and laboratory. 80 hours.

Posology. This is a brief course to familiarize the first year student with the science of dosage. 15 hours.

Pharmacognosy I. In this course the student is taught how to identify, select and value drugs. He learns the official names, definition, habitat, and constituents of each drug studied. Lectures, recitations, and laboratory. 80 hours.

Pharmacognosy II. This is a continuation of Pharmacognosy I. Attention is given to preservation, adulteration and identification of powdered drugs. Lectures, recitations and laboratory. 80 hours.

Materia Medica I. A course in inorganic Materia Medica. Special attention is given to official names, physiological action and doses. The physical and chemical properties of these drugs receive attention in so far as they influence their action. Lectures, recitations and quiz. 80 hours.

Materia Medica II. A course in organic Materia Medica (vegetable). The organic drugs are classified according to their action and use. Attention is given to official names, constituents, action and dosage. Lectures, recitations and quiz. 80 hours.

Materia Medica III. A course in organic Materia Medica (animal). These drugs are classified according to their action and use. Attention is given to official names, definitions, source, action and dosage. Lectures, recitations and quiz. 40 hours.

Toxicology. A study in the principles of poisoning, classification of poisons and effects of each class. Lectures, recitations and quiz. 40 hours.

Biological Assaying. Attention is given to biological assaying and standardization of the U. S. P. drugs that are most satisfactory valued by this method. Lectures, recitations and laboratory. 80 hours.

Chemistry Section

Physics. A course in elementary physics with a direct bearing upon pharmaceutical and chemical processes. Lectures, recitations and laboratory. 50 hours.

General Inorganic Chemistry I. This is an introductory course in General Inorganic Chemistry. Chemical theory, atoms, molecules, valence, writing and naming chemical formulas, are the chief topics. Lectures, recitations and laboratory. 80 hours.
General Inorganic Chemistry II. A brief course in general Inorganic Chemistry based upon the non-metals. Occurrence, preparation, physical and chemical properties and their combinations are carefully studied. Lectures, recitations and laboratory. 80 hours.

General Inorganic Chemistry III. A course in General Inorganic Chemistry based upon the metals. Their occurrence, preparation, physical and chemical properties and combinations are carefully studied. Lectures, recitations and laboratory. 80 hours.

Qualitative Analysis I. A course in inorganic Qualitative Analysis. Prerequisites: General Inorganic Chemistry I., II. and III. The greater portion of this course is devoted to laboratory practice. Lectures, recitations and laboratory. 80 hours.

Qualitative Analysis II. This is a continuation of Qualitative Analysis I. Lectures, recitations and laboratory. 80 hours.

General Organic Chemistry I. A study of the structure and constituents of the carbon compounds; the hydro carbons and carbo-hydrates with many of the addition and substitution products. Lectures, recitations and laboratory. 80 hours.

General Organic Chemistry II. This is a continuation of General Organic Chemistry I. Lectures, recitations and laboratory. 80 hours.

Quantitative Analysis I. This work consists of volumetric and gravimetric analysis; the determination of acidity and alkalinity; the analysis of organic and inorganic salts. Lectures, recitations and laboratory. 80 hours.

Quantitative Analysis II. A continuation of Quantitative Analysis I. A large amount of work is done which the Food and Drug Act demands. Lectures, recitations and laboratory. 80 hours.

Special Chemistry. This includes the chemistry of the Pharmacopoeia. Assaying of inorganic, organic, and special alkaloidal assaying are offered. Classes are arranged to meet the requirements of the student. For further information consult the Dean.

Pharmacy Section

Pharmaceutical Arithmetic. A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, English system, proportion, alligation, specific gravity and specific column, 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. 40 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. 40 hours.
Pharmaceutical Technique. An introductory course in the principles upon which pharmaceutical operations are based. Lectures, recitations and laboratory. 80 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, recitations and laboratory. 80 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, liquoris, certain acids, plasters, suppositories, etc., are the chief topics. Lectures, recitations and laboratory. 80 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 is given a liberal opportunity to compound actual prescriptions. Lectures, recitations and laboratory. 80 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. Lectures, recitations and laboratory. 80 hours. Courses elected in which there is no laboratory practice 60 hours will be required.

Requirements for Graduation

Each applicant for the degree Pharmaceutical Graduate (Ph.G.) must be of good moral character, must have satisfactorily completed the two-year's course of study, the last year of which being spent in resident study in this college.

Each applicant for the degree of Pharmaceutical Chemist (Ph.C.) must be of good moral character, must have satisfactorily completed the three-year's course of study, the last year of which being spent in regular study in this college.

Each applicant for the degree of Bachelor of Science in Pharmacy (B.S.) must be of good moral character, must have satisfactorily completed the four-year's course of study, the last year of which being spent in resident study in this college.

Expenses

For expenses, see pages 21, 22 and 23 of this catalog.
COLLEGE OF MUSIC

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

FREDERIC THOMAS KILEEN,
Dean
Voice, Musical History

WILLIAM P. LAMALE, Mus.B.,
Piano, Organ, Harmony

ALETA ROSE BOWERS,
Voice, Piano and Theory

GAIL WATSON
Violin

MARY CLYTICE PHILLIPS,
Children's Piano Department

WILLIAM CLAUDIUS GROTH, A.M.,
German, French, Italian

MARGARET ELEANOR WHITWORTH, B.S.,
Registrar

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 to 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 is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils' practice rooms, well lighted, heated and ventilated and equipped with pianos of good make.
Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.

DEPARTMENTS AND 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.

Junior. Exercises in agility, uniting of the tones; the swell, mezzo voce, embellishments; 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.

Senior. 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.

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 pieces 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 strictly to any one so-called “method”; the instructors, after careful 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 drudgery. 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 school.


Violin

First Year. Violin methods of Polanaski, Schraediek and DeBeriot; Etudes of Alard and Kayser; O’Senelik, School of Bowing Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Junior. Etudes of Blumenstengel, Mazas, Dont; Technique Preparatoire of Sevelk; Concertos of DeBeriot, Viotti, Krentzer; Solos, Oberaas of Wienianiski, Andante and Scherzo of David, Ballade et Polonaise of Vieuxtemps, Russian Airs of David.

Senior. Etudes of Krentzer, Fiorillio and Rode; Techniquial Studies of Sevelk and Schraediek; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfeisen of Sarasate; Marzurka 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 beginnings to its present state. Much time is devoted to the lives of the greatest composers and to a careful study of representative works 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 lectures and collateral reading.

Harmony

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann, 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 in this subject required for graduation is devoted to a study of the text "Harmonic Analysis" by F. J. Lehman.

GRADUATION

To finish 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 accomplishments.

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; 3 quarters Voice or Violin; 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 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 graduating 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 pedagogical work.
PUBLIC SCHOOL MUSIC

The courses in Public School Methods and Supervision are offered in the Summer Quarter only. Classes recite daily.

Public School Music I. (First half of term.) A thorough knowledge of music fundamentals and sight singing. Outlines for work in the first four grades and in the ungraded school.

Public School Music II. (Second half of term.) Prerequisite: Public School Music I., or its equivalent. Review of musical essentials and further drill in scales, keys, and sight-singing. Ear training. Outlines for advanced grades. High School Music. Special attention is given to the treatment of the child voice at all ages and to drilling and conducting choruses.

Graduation Requirements. No pupil will be graduated from this department unless he has a high school education or its equivalent, can sing in tune, can read ordinary music at sight and has a fair knowledge of Piano.

In addition to the above essentials the following studies are required:

Voice, 2 quarters; Harmony, 2 quarters; History of Education, I. and II.; Pedagogy, 1 quarter; Observation I.; Methods I., or Classroom Management; History of Music I. and II.; Grade outline work, Organization and Supervision, 2 summer terms. (6 weeks each.)

The course may be completed during summer quarters only. For such studies in the College of Education as are not offered in summer work, suitable substitutions will be made.

RECITALS

Pupils’ Recitals. Pupils’ recitals are held at seven o’clock every Tuesday evening 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.** A glee club of twenty voices has been organized, for the purpose of giving home concerts and touring the state each year.

**Girls' Glee Club.** This club is organized to learn the best in choral works written for female voices, and to give a concert each year.

**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 military band is maintained, affording an opportunity for practice to students playing a brass or reed instrument.

**Choirs.** 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 winter 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

\[ \text{\$22.00} \]

One lesson a week

\[ \text{\$14.00} \]

For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week

\[ \text{\$14.00} \]

One lesson a week

\[ \text{\$8.00} \]

**Children's Department**

Piano, quarter of twelve weeks, two lessons a week

\[ \text{\$10.00} \]

One lesson a week

\[ \text{\$6.00} \]
Class Lessons

Harmony, per quarter..........................$ 7.50
Counterpoint, per quarter...................... 7.50
History of Music, per quarter.................. 5.00
Theory of Music, per quarter................... 5.00
Ear Training, per quarter....................... 5.00
Public School Music, per quarter.............. 14.00
Public School Music, per six weeks term..... 8.00

EXPENSES

Piano rent, one hour a day, per quarter...........$ 2.50
Rent of Pipe Organ for practice, one hour a day per
quarter ........................................ 12.00

These rates are for lessons by the quarter only. Single
lessons are more.

Pupils registering within the quarter are charged for one
lesson more than is given them.

SCHOLARSHIP

The university is in possession of two scholarships amounting
to $150 a year each. These scholarships are the gifts of a
man anxious to help poor, yet worthy students, in attaining
to well trained lives. The terms of the scholarships require
that the student take from one-third to one-half literary work,
the rest music; that the award be made by the President of
the University and the Dean of the College of Music. The
student may be either a young man or a young women and the
fund will be found sufficient to pay the tuition and a little
more. The preference of the donor is for students who expect
to become teachers of music.

GRADUATION FEES

Diplomas are awarded to students completing recital courses
in Voice, Piano, Organ or Violin. The graduation fee is $5.00.

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.
COLLEGE OF MUSIC

REGULATIONS

1. All tuition 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, and the pupil will be 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 page 23 of this catalogue.
SCHOOL OF EXPRESSION

FACULTY

Albert Edwin Smith, D.D., Ph.D.,
President

Mae Deming McCoffin, O.M.,
Dean

Margaret Eleanor Whitworth, B.S.,
Registrar

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.

Courses

The courses may be grouped under two general classes.


II. Professional Culture—for Teachers, Platform Readers, Public Speakers, Clergymen, Lawyers, in fact all who aim to profit by any form of Speech Arts. 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.
Photplayers Course. A special course is now being arranged for those desiring to enter this new field of endeavor. Motion pictures are still in their infancy, yet their popularity among the masses, their general acceptance in our institutions of learning, the mechanical inventions, research and large financial investments give promise of a lusty growth. There is a great future for those who enter the field early. To attain a reasonable degree of perfection in the profession, a rigorous course must be followed and those not suited for it will be so informed. For further information address the Dean.

Special classes will be formed in any of the courses for those desiring training along a particular line and not having the time or means to complete a course. Private lessons may be had in any subject by students in other departments upon making arrangements with the Dean.

Advanced Standing
Liberal credits will be allowed for work done in other schools. Students may enter at any time and be placed according to their development.

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.

EXPENSES
Tuition
Class Lessons, per quarter--------------------------- $12.00
Physical Culture, per quarter------------------------- 5.00
Private Lessons, per quarter (15 lessons)------------ 12.00
Class and Private Lessons and Physical Culture------ 25.00
Class Lesson, single subject, per quarter----------- 6.00
Private lesson, single lesson------------------------ 1.00
Fencing, per quarter, (12 lessons)------------------- 6.00
Textbooks, stationery, et cetera, per year, about----- 5.00

Refunding
See page 23 of this catalogue.
DEPARTMENT OF MILITARY INSTRUCTION

FACULTY

ALBERT EDWIN SMITH, D.D., Ph.D.,
President

CAPT. BENJAMIN ALVIN BALL, U.S.A.,
Commandant
Professor of Military Science and Tactics

Under General Orders No. 49, War Department, September 20th, 1916, a Senior Reserve Officers Training Corps is established at the Ohio Northern University.

The arms and equipment are the same as those issued to the regular army. The rifles used will be the U.S. Magazine Rifle, model of 1917, caliber 30. Target practice will be held first with the sub-caliber rifle 22. Target practice will also be had with the 45 Colt Automatic Pistol.

Organization

The Cadet Battalion consists of the following: One Cadet Major, one First Lieutenant Cadet Adjutant, one First Lieutenant Cadet Quartermaster, one First Lieutenant Cadet Band Leader, and one Cadet Sergeant Major. Each company consists of:

1 Captain, 1 first Lieutenant, 1 Second Lieutenant, 1 First Sergeant, 1 Supply Sergeant, 4 Sergeants, 6 Corporals, 1 Company Clerk, 42 Privates.

Appointments

The cadet officers are appointed by the Professor of Military Science and Tactics after his recommendations have been approved by the President and the Faculty Military Committee. The non-commissioned officers are recommended by their various company commanders and appointed by the Professor of Military Science and Tactics.
DEPARTMENT OF MILITARY INSTRUCTION

Officers who fail to maintain their companies in satisfactory condition will be promptly reduced.

Instruction

The cadets are drilled in the school of the soldier, company and battalion and in the ceremonies, besides tactical problems, map-reading topography, sand table, visual signaling, target practice, army paper work, military law and procedure and in every detail with which a commander of troops is supposed to be familiar.

The moving picture machine will play a large part in helping to visualize the technical instruction.

After two years of military training cadets will be eligible to apply for commutation of subsistence amounting to about $12 a month.

The regular course requires three hours a week military training. To obtain the commutation of subsistence the cadet must take five hours a week for the last two years. At the end of his collegiate course the cadet is eligible for appointment in the reserve corps of the U. S. Army.

Text Books

The following text-books furnished by the War Department are designated for the course: Infantry Drill Regulations, Manual of Interior Guard Duty, Small Arms Firing Regulations, Manual of Physical Training, Manual of Court Martial, Quartermaster's Manual, Army Regulations; various blank forms also are furnished.

Uniform

The uniforms are the same as those used by the U. S. Army, and will be furnished free to the student. Extra parts of the uniform may be purchased at cost from the Zone Quartermaster.

Summer Camps

Every year, immediately at the close of the third quarter, a summer camp will be held for the purpose of practical instruction in field work. The U. S. Government meets the student's expenses at these camps, including transportation and extra uniforms.
Aim

It is the final purpose of the course to make Reserve Officers for the army, so that if another emergency should arise the United States could immediately put in the field an ample supply of well-trained men able to take command of troops.
ATHLETIC DEPARTMENT

THOMAS J. SMULL,  
President

ELIJAH E. LONG,  
Secretary

LENIX C. SLEESMAN,  
Graduate Manager

__________________________________________
Physical Director, (men)

CARRIE A. WILSON,  
Physical Director, (women)

CAPT. BENJ. A. BALL,  
Military Athletics

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

Athletic Coaching Courses

Designed for those intending to teach and coach. A quarter to each sport, all sports in season.

Football—Theoretical: Rules, offense and defense; generalship and strategy. Practical: Training, conditioning, and players' equipment; punting, drop kicking, place kicking, kick off, forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work.

Basketball—Coaching; passing; goal throwing; dribbling; team play; condition; practical work.

Baseball—Batting; base running; fielding each position; team work and coaching; rules; physical condition; lectures; practical work.
Physical Training for Men

This work is organized for the development of the physical man, with a view to keeping him in good, sound health and at the same time teaching him simplified methods which he may be able to use elsewhere, without costly apparatus.

I. Exercises. Floor drills; calisthenics, wands; dumbbells; Indian clubs; chinning apparatus and horizontal bar work; jumping and vaulting; medicine ball drills; rowing machine; chest weight machine; swinging rings.

II. Advanced Gym. (Elective). Parallel bars; horizontal bar; Milo adjustable bar bed; boxing, wrestling and tumbling; bag punching; horse vaulting.

Physical Training for Women

Lighter, yet similar, work is arranged for women, with a view to develop endurance, agility and grace.

Fee for Physical Training $1.00 per quarter.
## HONORARY DEGREES, 1917

Chapman, W. S. .................. (D.D.) ............... Norwalk, O.
Elsworth, E. E. .................. (D.D.) ................ Lancaster, O.
Johnson, Andrew ................. (D.D.) ................ Wilmore, Ky.
Routan, Frank C. ................ (D.Sc.) ............... Chicago, Ill.
Summers, H. V. .................. (B.S.) ................ Columbus, O.
Swank, Jesse .................... (D.D.) ................ Marion, 0.

## GRADUATES, 1917

### College of Liberal Arts

Abt, Pauline .................... (A.B.) ................ Ada
Bartlette, Thomas B. ............ (A.B.) ................ Nashville, Tenn.
Broede, Ralph ................... (A.B.) ................ Bloomville
Brooks, Leslie M. ............... (A.B.) ................ East Liverpool
Freeman, Harold B. .............. (A.B.) ................ Ada
Kline, Joyce ..................... (A.B.) ................ Westminster
Smith, Beatrice ................ (A.B.) ................ Ada
Wintringham, Charles E. ....... (A.B.) ................ Sidney
Wright, Robert .................. (A.B.) ................ Ada
Daily, George B. ................. (B.S.) ................ Youngstown
Dille, Margaret ................. (B.S.) ................ Arvada, Colo.
Eicher, Homer ................... (B.S.) ................ Mill Run, Pa.
Pigossi, Dante ................. (B.S.) ................ Greenup, Pa.
Ragner, Bernard ................. (B.S.) ................ McKeesport, Pa.
Seamands, Earl A. ............... (B.S.) ................ Tuscon, Ariz.
Shepherd, Arthur C. ............ (B.S.) ................ Barnesville
Stout, Alice ..................... (B.S.) ................ Ada
Vesper, Carl ..................... (B.S.) ................ Mendon
Wenn, Z. S. ...................... (B.S.) ................ Shix, China

### College of Education

Beeman, W. E. ................... (B.S. in Ed.) .......... Ada
Bevan, Roland .................. (B.S. in Ed.) .......... Caldwell
Curry, Homer P. ................. (B.S. in Ed.) .......... Glenford
Dentel, LeRoy J. ............... (B.S. in Ed.) .......... Payne
Ewing, Helen ................... (B.S. in Ed.) .......... Ada
Harshman, Ralph G. ............ (B.S. in Ed.) .......... Ada
Hatcher, Charles T. ............ (B.S. in Ed.) .......... Belmont
Johnson, Harlan W. ............ (B.S. in Ed.) .......... McConnelsville
Livingston, Ralph .............. (B.S. in Ed.) .......... Carey
Mahan, Leota ................... (B.S. in Ed.) .......... Ada
Mason, George Clyde .......... (B.S. in Ed.) .......... Ney
McDowell, Marguerite .......... (B.S. in Ed.) .......... Ada
Miller, Harriet ................ (B.S. in Ed.) .......... Ada
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Montgomery, Josephine</td>
<td>(B.S. in Ed.)</td>
<td>Wapakoneta</td>
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<td>Mottet, Paul O.</td>
<td>(B.S. in Ed.)</td>
<td>Ada</td>
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<td>Taubken, Harry</td>
<td>(B.S. in Ed.)</td>
<td>Botkins</td>
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<td>Vannorsdal, Harry H.</td>
<td>(B.S. in Ed.)</td>
<td>Jeffersonville</td>
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<td>Walker, Leo A.</td>
<td>(B.S. in Ed.)</td>
<td>Buckland</td>
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<td>Williams, Thomas W.</td>
<td>(B.S. in Ed.)</td>
<td>Versailles</td>
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<tr>
<td>Evans, Mary</td>
<td>(Grad.Ped.)</td>
<td>Gomer</td>
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<td>Gossard, Crystal</td>
<td>(Grad.Ped.)</td>
<td>Ada</td>
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<td>Hall, Dorothy</td>
<td>(Grad.Ped.)</td>
<td>Canton</td>
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<td>Henderson, Jessie</td>
<td>(Grad.Ped.)</td>
<td>Iberia</td>
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<td>Jones, Nina</td>
<td>(Grad.Ped.)</td>
<td>Benton Ridge</td>
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<td>Mahon, Isabel</td>
<td>(Grad.Ped.)</td>
<td>Dunkirk</td>
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<td>Poling, Eva</td>
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<td>Smith, Mildred</td>
<td>(Grad.Ped.)</td>
<td>Shiloh</td>
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<td>Solomon, Hazel</td>
<td>(Grad.Ped.)</td>
<td>Ada</td>
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<td>Sproul, Vera</td>
<td>(Grad.Ped.)</td>
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<td>Stopher, Thelma</td>
<td>(Grad.Ped.)</td>
<td>Ada</td>
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<tr>
<td>Strohecker, Mary</td>
<td>(Grad.Ped.)</td>
<td>Enon Valley, Pa.</td>
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<tr>
<td>Wells, Mary</td>
<td>(Grad.Ped.)</td>
<td>Ada</td>
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**College of Engineering**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>City</th>
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<tbody>
<tr>
<td>Cabellero, J.</td>
<td>(C.E.)</td>
<td>Santiago, Chili</td>
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<td>Harris, George</td>
<td>(C.E.)</td>
<td>Degrass</td>
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<td>ManescaI, C. H.</td>
<td>(C.E.)</td>
<td>Brazil</td>
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<td>Masses, Octavio</td>
<td>(C.E.)</td>
<td>Cuba</td>
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<td>Segui, J.</td>
<td>(C.E.)</td>
<td>Brazil</td>
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<td>Travares, J.</td>
<td>(C.E.)</td>
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<td>Bayne, George</td>
<td>(B.S. in C.E.)</td>
<td>Medina, N. Y.</td>
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<td>Birdsall, A.</td>
<td>(B.S. in C.E.)</td>
<td>Hackensack, N. J.</td>
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<td>Burns, Earl</td>
<td>(B.S. in C.E.)</td>
<td>Collins</td>
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<td>Cooke, Harry A.</td>
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<td>Englewood, N. J.</td>
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<td>Dutch, William</td>
<td>(B.S. in C.E.)</td>
<td>Elyria</td>
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<td>Hakes, Harold Z.</td>
<td>(B.S. in C.E.)</td>
<td>Fostoria</td>
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<td>Hine, Edgar D.</td>
<td>(B.S. in C.E.)</td>
<td>Hamilton</td>
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<td>Hine, J. H.</td>
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<td>Honsinger, F. T.</td>
<td>(B.S. in C.E.)</td>
<td>Little Falls, N. Y.</td>
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<td>Kapp, C. R.</td>
<td>(B.S. in C.E.)</td>
<td>Summerville</td>
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<td>Kerr, E. M.</td>
<td>(B.S. in C.E.)</td>
<td>Mason</td>
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<td>Leighton, F. C.</td>
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<td>Spring Lake, N. J.</td>
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<td>Smith, L. L.</td>
<td>(B.S. in C.E.)</td>
<td>Cherry Creek, N. Y.</td>
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<td>(B.S. in C.E.)</td>
<td>Granville</td>
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<td>Barros, E. S.</td>
<td>(E.E.)</td>
<td>S. Paulo, Brazil</td>
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<td>Fereira, R. Q.</td>
<td>(E.E.)</td>
<td>Tramagal, Portugal</td>
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<td>Guimaraes, A.</td>
<td>(E.E.)</td>
<td>Brazil</td>
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Monici, Stephen .......................... (E.E.) ........................ S. Paulo, Brazil
Palaz, Earnest .......................... (E.E.) ........................ Wedillen, Columbia
Sousa, J. T. ................................ (E.E.) ........................ Brazil
Aimutis, F. J. .............................. (B.S. in E.E.) ........................ New Haven, Conn.
Campbell, I. S. ............................ (B.S. in E.E.) ........................ Arlington, N. Y.
Manusov, Philip ........................... (B.S. in E.E.) ........................ Mapelwood, N. Y.
Moliter, F. W. .............................. (B.S. in E.E.) ........................ Broadalbin, N. Y.
Peoples, Warren L. ......................... (B.S. in E.E.) ........................ Bolivar
Speece, Rex ................................. (B.S. in E.E.) ........................ Quincy
Wickerham, W. W. ......................... (B.S. in E.E.) ........................ McComb
Fyke, James C. .............................. (M.E.) ........................ West Unity
Gonsalves, Dario R. ....................... (M.E.) ........................ Brazil
Briggs, R. W. ............................... (B.S. in M.E.) ........................ Frankfort
Francis, Oscar .............................. (B.S. in M.E.) ........................ Elida
Ginsburg, Leo ............................... (B.S. in M.E.) ........................ Brooklyn, N. Y.
Karlson, John T. ............................ (B.S. in M.E.) ........................ Orange, Mass.
Miller, Raymond G. ....................... (B.S. in M.E.) ........................ Morristown, N. Y.
Moore, Meade ............................... (B.S. in M.E.) ........................ Prospect, Pa.
Norrick, H. E. .............................. (B.S. in M.E.) ........................ West Park
Rew, C. J. .................................. (B.S. in M.E.) ........................ Bemas Point, N. Y.
Smith, C. A. ................................. (B.S. in M.E.) ........................ Monmouth, Ill.
Walters, M. V. .............................. (B.S. in M.E.) ........................ Palacios, Tex.
Wright, L. R. ............................... (B.S. in M.E.) ........................ N. Girard, Pa.
Brownlee, J. L. ............................. (B.S. in Chem.E.) ........................ Ada

College of Law

Connaughton, F. P. ......................... (LL.B.) ........................ Wapakoneta
Crabbe, H. H. ............................... (LL.B.) ........................ Ada
Dormand, W. L. ............................. (LL.B.) ........................ Spring Valley, N. Y.
Harbour, Hershell R. ...................... (LL.B.) ........................ Quincy
McMasters, E. B. .......................... (LL.B.) ........................ Steubenville
Mills, Leo .................................. (LL.B.) ........................ Bellbrook
Palombo, Charles W. ...................... (LL.B.) ........................ Waterburg, Conn.
Putnam, R. B. ............................... (LL.B.) ........................ Millerburg
Ringer, Strawder A. ....................... (LL.B.) ........................ Ada
Seymour, Joseph ........................... (LL.B.) ........................ Medina
Shaw, Marvin R. ........................... (LL.B.) ........................ Bradford, Pa.
Shepler, J. B. .............................. (LL.B.) ........................ Coshocton
Singer, E. G. ............................... (LL.B.) ........................ Dixon
Tilton, E. B. ............................... (LL.B.) ........................ Steubenville
Wolfe, Orin ................................. (LL.B.) ........................ New Berlin

College of Pharmacy

Alonzo, Anthony .......................... (Ph.G.) ........................ Buena, Cuba
Baker, Bryan ............................... (Ph.G.) ........................ Celina
Bealor, E. E.                        (Ph.G.)                        Orville
Black, M. Ray                         (Ph.G.)                        Perry
Buddenhagen, William R.                (Ph.G.)                        Sandusky
Cann, Harry E.                         (Ph.G.)                        Marion
Carpenter, L. H.                        (Ph.G.)                        Jamestown
Clutter, Alberto B.                    (Ph.G.)                        Ada
Clutter, Guillermo P.                  (Ph.G.)                        Ada
Creps, John H.                          (Ph.G.)                        Lima
Deadin, L. Jose                        (Ph.G.)                        Cuba
DeWeese, Paul L.                       (Ph.G.)                        Lima
Diehl, R. E.                            (Ph.G.)                        Sandusky
Fast, Norval B.                         (Ph.G.)                        St. Marys
Fockler, Serge S.                      (Ph.G.)                        Lima
Fowler, Clarence W.                    (Ph.G.)                        Flushing
Fuste, Alexander F.                    (Ph.G.)                        Cuba
Garcia, Julius M.                      (Ph.G.)                        Halienda, Mex.
Gerszényi, Peter                       (Ph.G.)                        Cleveland
Gomez, Bernardo                        (Ph.G.)                        Cuba
Grenneman, G. R.                       (Ph.G.)                        -. Celina
Hoyn, George A.                        (Ph.G.)                        -. West Mansfield
Henry, Herman B.                       (Ph.G.)                        -. Nappan, Ind.
Johnson, Lloyd M.                      (Ph.G.)                        -. Whitney, N. Y.
Landers, Floyd H.                      (Ph.G.)                        -. Cuba
Lavcrs, Joseph A.                      (Ph.G.)                        -. Jackson
Lloyd, Harry                            (Ph.G.)                        -. Stockport
Lyne, Charles C.                       (Ph.G.)                        -. Van Wert
Mathews, Carey H.                      (Ph.G.)                        -. Elyria
Mayberry, Kline D.                     (Ph.G.)                        -. Chung Tung, China
McClure, Charles D.                    (Ph.G.)                        -. Lancaster
McDowell, Vance                         (Ph.G.)                        -. Orville
McIntyre, F. A.                        (Ph.G.)                        -. S. Zanesville
McIntyre, George                       (Ph.G.)                        -. Crenline
Montgomery, J. M.                      (Ph.G.)                        -. Huntville
Moisiman, Raymond W.                   (Ph.G.)                        -. Gallipolis
Mowiser, James B.                      (Ph.G.)                        -. Orville
Otterman, Oscar O.                      (Ph.G.)                        -. Fremont
Phelan, William J.                      (Ph.G.)                        -. Ambridge, Pa.
Purvis, William R.                     (Ph.G.)                        -. Payne
Ramos, A. V.                            (Ph.G.)                        -. T姑asaco, Cuba
Robison, W. Wendon                     (Ph.G.)                        -. Savannah
Rockell, Frank W.                      (Ph.G.)                        -. Hillsboro
Schlosser, John C.                      (Ph.G.)                        -. Defiance
Seibert, George W.                     (Ph.G.)                        -. Liberty, N. Y.
Seigley, Frank M.                      (Ph.G.)                        -. Orville
Selser, Leslie G.                      (Ph.G.)                        -. Akron
Shaw, R. Raymond                        (Ph.G.)                        -. Cherry Tree, Pa.
Smith, Frank A.                         (Ph.G.)                        -. Antwerp
GRADUATES OF 1917

Spoon, Byron C. (Ph.G.) Forest
Steiner, Homer (Ph.G.) Pandora
Stultz, Jesse H. (Ph.G.) Roanoke, Va.
Thompson, Earl A. (Ph.G.) Lima
Winkler, John F. (Ph.G.) Apple Creek
Yarnell, Clair W. (Ph.G.) Napoleon

College of Commerce

Balyeat, Harold G. (B.C.S.) Mansfield
Hodge, Paul Z. (B.C.S.) Youngstown
Livingston, Hazel (B.C.S.) Gallion
Morrison, Don L. (B.C.S.) Rawson
Spencer, J. Lowell (B.C.S.) Waveland, Ind.
Weber, Robert C. (B.C.S.) Dayton
Feigl, Lafa A. (Grad.Sten.) Galion
Fitzpatrick, Viola (Grad.Sten.) Ada
Meyer, Irma R. (Grad.Sten.) Piqua
Tillner, Beda C. (Grad.Sten.) Bessemer, Mich.
Bindley, Burdette E. (Grad.C.S.) Marion
Bagdonas, J. J. (Grad.C.S.) Chicago
Daubenspeck, Roy (Grad.C.S.) Mullens, W. Va.
Fritsch, J. Herman (Grad.C.S.) Piqua
Imbody, W. H. (Grad.C.S.) Larue
Jenkins, Raymond M. (Grad.C.S.) Victoria, Cuba
Olson, Florence E. (Grad.C.S.) Ironwood, Mich.
Nolze, Harmon R. (Grad.C.S.) Delaware
Rowlands, Fred W. (Grad.C.S.) Mansfield
Troastle, Wayne M. (Grad.C.S.) Pandora
Harshman, Eva L. (Grad.C.S.) Ada

College of Agriculture

Dalley, Deane (Grad.Agr.) McClure
Dodson, Kenneth E. (Grad.Agr.) Springfield
Weaver, W. C. (Grad.Agr.) Cincinnati
Wester, Arthur L. (Grad.Agr.) Sidney

College of Music

Betz, Lela (Piano) Ada
Conklin, Mae (Piano) Forest
Garmon, Lavonne (Piano) Dunkirk
Warren, Ethel (Piano) Ada
Wickerham, Hazel B. (Piano) Williamstown
Huber, Claire .................................. (Voice) .................................. Ada
Sheller, Elsie .................................. (Voice) .................................. Ada
Wickerham, Hazel B. ............................ (Voice) .................................. Williamstown
Pugh, Ethel ........................................ (Pub.Sch.Mus.) ................................. Fostoria

College of Expression
Burnett, Elizabeth M.............................. (Grad.Exp.) ......................... Forest
Chambers, Audrey C............................... (Grad.Exp.) ......................... Carey
Coventry, Helen F................................. (Grad.Exp.) .......................... Bellefontaine
Parks, Genevieve A................................. (Grad.Exp.) ......................... Willshire

HONORARY DEGREES, 1918
Groth, William C................................. (A.M.) .................................. Ada
Parlette, Ralph .................................. (A.B. Litt.D.) ....................... Chicago, Ill.
Smith, William A................................. (D.D.) .................................. Fostoria
Snader, David L................................. (M.S.) .................................. Clarksville, Tenn.

GRADUATES, 1918
College of Liberal Arts
Ames, Alma Kathryn............................. (A.B.) .................................. Ada
Mueller, Erna .................................. (A.B.) .................................. Hamilton, Canada
Mueller, Isolde .................................. (A.B.) .................................. Hamilton, Canada
Ridenour, Florence ............................... (A.B.) .................................. Lafayette
Jamison, Laura .................................. (B.S.) .................................. Ada
Johnson, Dean B................................. (B.S.) .................................. Freeport
Mertz, Gertrude .................................. (B.S.) .................................. Ada
Porritt, Donald Charles ......................... (B.S.) .................................. Pontiac
Smith, Clarence Joseph ......................... (B.S.) .................................. Elyria

College of Education
Ailes, Sidney .................................. (B.S. in Ed.) ............................. Jackson Centre
Armstrong, George B. T. ......................... (B.S. in Ed.) ........................... Sycamore
Getz, Ralph H.................................... (B.S. in Ed.) ............................. Dola
Harrod, Jesse Raymond ......................... (B.S. in Ed.) ............................. Harrod
Harshman, Anna Talmage ....................... (B.S. in Ed.) ............................. Ada
Kline, Joyce .................................. (B.S. in Ed.) ............................. Westminster
Longnecker, Elsie ................................ (B.S. in Ed.) ............................. Ada
Ross, Lella Eleanor .............................. (B.S. in Ed.) ............................. Montrose, Colo.
Sanders, Colby Clifton ......................... (B.S. in Ed.) ............................. Clifton
Taylor, Cyrus Oscar ............................ (B.S. in Ed.) ............................. North Lewisburg
Thrasher, Florence H............................ (B.S. in Ed.) ............................. Oakwood
Weaver, Loring L................................ (B.S. in Ed.) ............................. Westminster
Younger, William S.............................. (B.S. in Ed.) ............................. Celina
Allcroft, Vivian Tobias ......................... (Grad.Ped.) ............................. Ada
Belston, Ethel Mae............................... (Grad.Ped.) ............................. Lima
GRADUATES OF 1918

Edwards, Pauline L. (Grad.Ped.) Ada
Goddard, Gertrude Anna (Grad.Ped.) Cutler
Herr, Opal (Grad.Ped.) Ada
Huggett, Irene (Grad.Ped.) Ada
Kinney, Imogene P. (Grad.Ped.) Mt. Victory
Kollefrah, Alice A. (Grad.Ped.) Maryville
McCrea, Jennie E. (Grad.Ped.) Sedalia
Parrette, Edna Iola (Grad.Ped.) Continental
Pees, Mahala Jane (Grad.Ped.) Dola
Porter, Daisy (Grad.Ped.) Ada
Ritchie, Doris Walters (Grad.Ped.) Oakland
Severo, Carrie (Grad.Ped.) Vanatta
Shanks, Francis Lenore (Grad.Ped.) Ada
Stover, Bess (Grad.Ped.) Lima
Thompson, Helen Marie (Grad.Ped.) Ada
Wolf, Mabel V. (Grad.Ped.) Ada

College of Engineering

Guimarães, Antonio (C.E.) Rio Janeiro, Brazil
Moehring, Don C. (C.E.) Dayton
Crosta, Alfred A. (B.S. in C.E.) Newark
Dantan, Richard (B.S. in C.E.) Mexico City
Fritz, Charles E. (B.S. in C.E.) Liberty N. Y.
Fisher, E. Cletus (B.S. in C.E.) Cohocton
Gilley, Jesse Garrett (B.S. in C.E.) Advance, Ky.
Ingle, Carl W. (B.S. in C.E.) Bryan
Luke, K. C. (B.S. in C.E.) Hong Kong, China
Moehring, Don C. (B.S. in C.E.) Dayton
Sprinkle, Rexford M. (B.S. in C.E.) Preble
Wong, W. T. (B.S. in C.E.) Hong Kong, China
Brownlee, James L. (B.S. in M.E.) Ada
Englehardt, William Curtis (B.S. in M.E.) Howard
Tornes, J. R. (B.S. in M.E.) Manzanillo, Cuba
Tiefel, John C. (B.S. in M.E.) Niles
Tiefel, Myron R. (B.S. in M.E.) Niles
Ferlie, Andrew J. (B.S. in E.E.) Traverse City, Pa.
Lopes, Darlindo (B.S. in E.E.) Faro, Brazil
Rudolph, Harold L. (B.S. in E.E.) Bartlett
Ward, William Edward............(B.S. in E.E.)............Olean, N. Y.
Porter, Paul George............(B.S. in Chem. Eng.)............Niles

College of Law
Allen, F. Leroy..................(LL.B.)..................Richwood
Bevan, Lorenzo D..................(LL.B.)..................Caldwell
Carlyle, Homer E..................(LL.B.)..................Youngstown
Heminger, Ralph L...............(LL.B.)..................Prairie Depot
Irish, William C..................(LL.B.)..................Newark
Neal, J. Howard..................(LL.B.)..................Springfield
Russell, Alva J..................(LL.B.)..................Arlington

College of Commerce
Smith, Ervin S..................(B.S.C.)..................Ada
Colley, Frank M..................(Grad.Sten.)..............Piqua
Hall, Marguerite.................(Grad.Sten.)..............Springboro, Pa.
Knapp, Geraldine.................(Grad.Sten.)..............Girard
Smith, Ervin S..................(Grad.Sten.)..............Ada
Sourwine, Iva C..................(Grad.Sten.)..............Milan
Lathrop, Roland R.................(Grad.C.S.)..............Cincinnati
Mielke, Earnest C.................(Grad.C.S.)..............Sandusky
Morris, Theo. V..................(Grad.C.S.)..............Dayton
Pena, Jose C....................(Grad.C.S.)..............Campeche, Mex.
Pollock, Wilbur..................(Grad.C.S.)..............Morristown, N. Y.
Hoffman, Cecelia...............(Grad. Bk. & Sten.)........Toledo
Moser, Victor................... (Grad. Bk. & Sten.)........Dalton
Perkins, Frank W.................(Grad. Bk. & Sten.)........New Haven, Conn.

College of Pharmacy
Bookwalter, Ray Harold.........(Ph.G.)..................Huntsville
Brito, Maria V. de J............(Ph.G.)..................Caibabelagua, Cuba
Cunningham, Dale L..............(Ph.G.)..................Toledo
Del Rio, Francisco L............(Ph.G.)..................Placitas, Cuba
Field, Mabel G..................(Ph.G.)..................Ft. Wayne, Ind.
Finney, B. Waldo...............(Ph.G.)..................
Fryer, Melville O...............(Ph.G.)..................Spencerville
Green, William J...............(Ph.G.)..................Mt. Gilead
Hamsher, Harry L...............(Ph.G.)..................DeGraff
Heckler, H. Grant...............(Ph.G.)..................Napoleon
Lalondri, A. F..................(Ph.G.)..................Y. Sta. Clara, Cuba
Lantz, Clay D..................(Ph.G.)..................Portsmouth
Lewis, Bruce B..................(Ph.G.)..................Lisbon
Loranger, Raoul F..............(Ph.G.)..................Lima
Motz, Hubert W..................(Ph.G.)..................Cuyahoga Falls
Wall, Marian..................(Ph.G.)..................Hamersville
Ydoysaga, Rafael Juarista.....(Ph.G.)..................Jaguary Grande, Cuba
UNDER-GRADUATES, 1917—18

College of Music

Cook, Nina .................................. (Voice) .................................. Ashtabula
Russell, Lucille .................................. (Voice) .................................. Ada
Brito, Marguerite .................................. (Piano) .................................. Cabálelagua, Cuba

College of Expression

Hamilton, Ruth .................................. (Grad. Exp.) .................................. Lima
Knapp, Geraldine .................................. (Grad. Exp.) .................................. Girard

REGISTER OF UNDER-GRADUATES

(Spring Quarter, March 6, 1917—Winter Quarter 1919, Inclusive)

COLLEGE OF LIBERAL ARTS

Ames, Alma K. .................................. Hardin, O.
Allinger, J. Herman .................................. Logan, O.
Augsburger, Donald L. .................................. Allen, O.
Allcroft, Vivian Tobias .................................. Hardin, O.
Bennett, C. D. .................................. Auglaize, O.
Benner, Jas. .................................. Hardin, O.
Barker, Rachel .................................. Union, O.
Blough, Homer C. .................................. Somerset, Pa.
Bowers, Aleta .................................. Hardin, O.
Bushong, Clayton .................................. Hancock, O.
Beyer, Forrest .................................. Perry, O.
Bixel, Russell .................................. Allen, O.
Basinger, Byron .................................. Putnam, O.
Baransy, H. J. .................................. Hardin, O.
Bangham, Orville .................................. Hardin, O.
Bachelors, Raymond .................................. Okla., Okla.
Burgess, Fred .................................. Hamilton, O.
Browne, Harold .................................. Lorain, O.
Clifford, J. M. .................................. Cuyahoga, O.
Clifford, E. E. .................................. Lorain, O.
Cromer, L. V. .................................. Clark, O.
Conkle, Elizabeth .................................. Hardin, O.
Coffman, Richard F. .................................. Montgomery, O.
Cramer, Chas. .................................. Hardin, O.
Copeland, Don .................................. Auglaize, O.
Corwin, Emmett L. .................................. Hardin, O.
Cook, Melvin .................................. Putnam, O.
Countryman, Enos L. .................................. Allen, O.
Candler, Lester .................................. Hardin, O.
Clover, Lewis .................................. Allen, O.
Casper, Howard .................................. Stark, O.
Dalley, Raymond E. .................................. Pike, O.
Davies, A. C. .................................. Allen, O.
Daniels, Abraham .................................. Rensselaer, N.Y.
Diebler, Milton .................................. Crawford, O.
Donithen, H. A. .................................. Marion, O.
Day, Allan .................................. Allen, O.
Dumbauml, Carl .................................. Hardin, O.
Diller, Orlo .................................. Allen, O.
Egger, Donald .................................. Monroe, O.
Eyster, J. Dean .................................. Williams, O.
Fell, E. E. .................................. Trumbull, O.
Fell, Lenore .................................. Trumbull, O.
Focht, B. H. .................................. Auglaize, O.
Faulkner, Chas. J. .................................. Shelby, O.
Fantz, Franklin E. .................................. Allen, O.
Freeman, Marion .................................. Hardin, O.
Gilliam, Donald A. .................................. Green, O.
Griebling, Chas. W. .................................. Richland, O.
Gross, Fred .................................. St. Joseph, Ind.
Guttman, Linus W. .................................. Shelby, O.
Harvey, Khiva .................................. Hardin, O.
Hall, F. LeRoy .................................. Berkshire, Mass.
Hartley, Omar .................................. Green, Pa.
Hartman, Ralph .................................. Beaver, Pa.
Holman, Carl .................................. Hardin, O.
Haber, Tom B. .................................. Darke, O.
Higbee, Calvin A. .................................. Lucas, O.
Hurst, Cora .................................. Tuscarawas, O.
Heterick, Frances .................................. Dukes, Mass.
Haines, Gail .................................. Allen, O.
Hoffman, Chas. L. .................................. Putnam, O.
Hettis, F. M. .................................. Erie, O.
Hurlless, Doyt B. .................................. Van Wert, O.
Heckathorn, Everett H. .................................. Hardin, O.
Hoffman, Lamont .................................. Allen, O.
Harper, Jno. C. .................................. Lawrence, Pa.
HALL, Margaret........Montgomery, O.
Irvin, Harry........Alten, O.
Imbody, W. H........Marion, O.
Jones, Gladys........Hardin, O.
Johnson, Glen........Marion, O.
King, L. F.............Hardin, O.
Kucinskas, T. J........Monroe, N.Y.
Klopfer, Jay..........Logan, O.
Kynert, Hobart.......Richland, O.
Loy, Frank L........Hardin, O.
Lyman, Raymond S.......Hardin, O.
Lehnis, Karl F..........Stark, O.
Lantz, Clifford........Hardin, O.
Miller, H. H........Morrow, O.
Mollenberg, K. E........Wood, O.
Metz, M. D........Marion, O.
Monks, Leroy J........New Haven, Conn.
McMullen, Otto........Monroe, O.
Markley, F. G........Hardin, O.
Mercer, Frank........Hardin, O.
Mertz, Merle........Hardin, O.
McColm, Frank........Hardin, O.
Milligan, H. E........Van Wert, O.
Myers, Reimond D........Williams, O.
Minnich, Carl F..........Logan, O.
McClanahan, Harry......Fairfield, O.
Matheny, Arlie.........Hardin, O.
McGinnis, Wilmie.......Hardin, O.
Nelson, F. R........Monroe, O.
Northrup, Verne.........Hardin, O.
O'Leary, A. F........Crawford, O.
Perry, Clarence.........Hardin, O.
Pugh, Ray M........Monroe, O.
Palmer, Chas. E.........Hardin, O.
Potter, J. Austin.......Allen, O.
Phillips, Louella.......Hardin, O.
Pryor, Jno. E........Logan, O.
Penhorwood, S. D........Hardin, O.
Parson, W. S........Beaver, Pa.
Porath, J. A........Howard, Ind.
Payne, Neil N........Ashtabula, O.
Reese, Lloyd........Putnam, O.
Rowand, R. A........Clinton, O.
Rowand, A. E........Clinton, O.
Ridenour, Virgil........Allen, O.
Ross, Myrtle........Montmore, Colo.
Remy, Frank S........Richland, O.
Rieser, Frederick N......Wyandot, O.
Rawers, A. J........Mercer, O.
Randall, Carl A........Erie, Pa.
Robnolte, Mathew.......Hardin, O.
Saunders, C. C..........Pike, O.
Speese, Geo. A..........Union, O.
Smith, Guy L........Hardin, O.
Sims, Albert........Muskogee, Okla.
Spellman, Ruth.........Hardin, O.
Smith, Harriet........Hardin, O.
Snyder, Ruth........Hardin, O.
Stroup, Albert.........Hardin, O.
Shew, F. L........Blair, Pa.
Schoener, Robert S.......Richland, O.
Sink, Edwin........Hardin, O.
Sloan, Loyd E..........Mercer, O.
Spellman, Katherine.....Hardin, O.
Scoville, Harold I........Ashtabula, O.
Spellman, Jas. R.......Hardin, O.
Tinker, Miles A........Birkshire, Mass.
Tully, Frank........Logan, O.
Trostle, Wayne M.........Putnam, O.
Turner, R. W........Hardin, O.
Thrasher, Amanda.......Paulding, O.
Thomas, Harold..........Highland, O.
Tudor, Arthur........Allen, O.
Thompson, Dani..........Hardin, O.
Warren, Marjorie.......Hardin, O.
Wingered, Christian.....Stark, O.
Wood, Ralph........Allen, Ind.
Wahl, Orice........Paulding, O.
Wyman, R. S........Ashtabula, O.
Weissberger, Geo........Cuyahoga, O.
Wells, Jno. E........Hardin, O.
Woodworth, Loyd.......Ashtabula, O.
Winogardner, B. G........Allen, O.
Wiseman, Merrill.......Lawrence, O.

COLLEGE OF EDUCATION

Ash, Mary..........Hardin, O.
Apt, Fern O..........Hardin, O.
Antin, Etta R..........Lucas, O.
Armentrouth, Edna.....Hardin, O.
Armentrouth, Elma.....Hardin, O.
Andrews, Blanche.....Allen, O.
<table>
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<tr>
<th>Name</th>
<th>College</th>
<th>Location</th>
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<td>Ailes, Sidney</td>
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<td>Creviston, Caddie</td>
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<td>Coats, Rebecca</td>
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<td>Cantrell, Ruth</td>
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<td>Name</td>
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Steimbrey, Rose-----------Tuscarawas, O.
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Schroeder, Carl----------Mercer, O.
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Stover, Bess------------Allen, O.
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Schmeltz, Lillie---------Ottawa, O.
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Scott, Ruth------------Paulding, O.
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Shaw, Clara C.---------Logan, O.
Sanders, Jennie---------Ashtabula, O.
Smith, Agnes----------Hardin, O.
Swartz, Thelma---------Allen, O.
Snyder, Ruth----------Hardin, O.
Snook, Nettie M.-------Allen, O.
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Sprain, Goldie---------Van Wert, O.
Salt, Nell-------------Hardin, O.
Shook, Donna----------Wood, O.
Stuve, Lucile---------Henry, O.
Stolzenbach, Clara------Allen, O.
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Shearron, Herbert-------Tuscarawas, O.
Sneeringer, A. T.-------Hardin, O.
Swavely, Lester E.-------Berkshire, Pa.
Sharp, Paul-----------Hardin, O.
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Stroup, A. M. F.--------Hardin, O.
Small, Forest M.-------Darke, O.
Sleppy, Ira F.---------Darke, O.
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Edwardo, J. P.----------Jefferson, O.
Englehart, W. C.--------Knox, O.
Elliott, Wm.---------Cook, O.
Eshelby, A. Carl----------Erie, O.
Essig, Webster B.--------Stark, O.
Ewing, Edwin D.--------Hancock, O.
Ewing, Clay P.---------Hancock, O.
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Fahl, Ray D.--------Hancock, O.
Foster, Harry---------Hancock, O.
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Pieglist, Harold--------Sandusky, O.
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Gerhart, Ray I.--------Seneca, O.
Grandey, Jos. A.--------Lawrence, Pa.
Golden, M. H.----------Canada
Garlinger, Chas. W.-----Hardin, O.
Glenedenning, Paul------Champaign, O.
Gipson, Claude--------Colman, Tex.
Granger, G. L.---------Lorain, O.
Gunamaras, Antonio-----Brazil
Gilmer, David S.-------Allen, O.
Gilpen, Oren----------Allen, Ind.
Heasley, E. Clarence-----Mercer, O.
Hawe, J. Eldon--------Dubuque, Ia.
Hartzler, Paul--------Summit, O.
Huff, Troy C.---------Hancock, O.
Hack, Paul A.---------Mahoning, O.
Henshaw, Ralph L.------Butler, Pa.
Hipscher, M. F.--------Marion, O.
Holsborg, Philip--------Berkshire, Mass.
Hobson, H. E.---------Washington, O.
Hobensack, R. L.-------Belmont, O.
Herndon, G. R.--------White, Ark.
Harris, Howard M.------Todd, Pa.
Hart, Wilbur M.--------Summit, O.
Heil, Ralph----------Ashtabula, O.
Hecox, Leon C.-------Marion, O.
Hollister, Ross--------Lake, Ind.
Harper, Donald--------Pleasant, W. Va.
Hunsicker, Ward--------Wayne, O.
Hickey, Burnie R.-------Wachita, Ark.
Hulse, John H.--------Mercer, N. J.
Hersh, Teddy R.--------Putnam, O.
Harmon, Harold--------Hardin, O.
Harris, Ruel M.--------Richland, O.
Hoagland, Riley W.------Marion, O.
Holmes, Oscar F. P.-----Hancock, O.
Hanlon, Albert W.-------Cuyahoga, O.
Heim, Herbert----------Columbiana, O.
Harshbarger, H. P.------Montgomery, O.
Heller, Roland S.-------Allen, O.
Hooper, Clarence-------Angaize, O.
Huffman, Ephraim------Wayne, O.
Hipsher, Lester C.-------Marion, O.
Hanscom, Ralph B.-------Cuyahoga, O.
Hill, Forrest----------Marion, O.
Heckathorn, Royal J.-----Allen, O.
Hardy, Paul R.--------Belmont, O.
Herrman, Elko R.-------Miami, O.
Hunt, Blair I.---------Blount, Tenn.
Isham, Donovan--------Hardin, O.
Immel, John H.--------Champaign, O.
Jorgenson, R. S.-------Denmark
Jones, Orton H.---------Wood, O.
Jackson, D. C.---------Sandusky, O.
Jayne, G. Edmund------Essex, N. J.
Jennings, Doyt C.-------Allen, O.
Jepson, Mark--------Cattaraugus, N. Y.
Johnston, Homer W.------Allen, O.
John, Howard----------Allen, O.
Jones, Gordon---------Allen, O.
Jones, Arlie----------Mercer, O.
Jacobs, Frank H.-------Hardin, O.
Johnston, Justin W.------Jefferson, O.
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Kair, Wm.--------Berkshire, Mass.
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Kagman, Harry D.---------Wayne, O.
Klingler, Jesse-----------Hardin, O.
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Krishbaum, Waldo----------Stark, O.
Kohler, John-------------Auglaize, O.
Keady, Herbert W.--------Knox, O.
Kunkel, Jas------------Cuyahoga, O.
Klaas, Ernest W.---------Kings, N. Y.
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Kennedy, John-----------Richland, O.
Krofft, Floyd A.--------Hardin, O.
Law, Chas. W.----------Cattaraugus, N. Y.
Leighton, F. C.----------Monmouth, N. J.
Lee, E. A.----------------Malaysia
Lewis, E. W.-------------Ramsay, Minn.
Leiter, Harold E.--------Lucas, O.
Lyons, Ray---------------Chenango, N. Y.
Langguth, Robert --------Hubbard, Minn.
Lane, Eric D.-----------Belmont, O.
Loehr, Chas. E.----------Logan, O.
Long, Ralph-------------Summit, O.
Landers, Floyd W.--------Bloom, N. Y.
Leininger, R. S.--------Berkshire, Pa.
Lynde, Walter------------Stark, O.
Lotz, Edwin H.-----------Hartford, Conn.
Liddle, David W.--------Mercer, Pa.
Lewandowsky, Julio-------Brazil
Liano, Manuel-----------Porto Rico
Laning, Clarence E.------Hancock, O.
Le Vine, Aaron----------Orange, N. Y.
Lawter, Raymond S.-------Auglaize, O.
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Mangs, Albert C.--------New York, N. Y.
Malina, Urique----------Peru
McLeod, L. A.-----------Cook, Ill.
Marshall, Wm. M.--------Carroll, O.
McIntyre, N. K.---------Fayette, Pa.
Maurer, M. H.-----------Carroll, O.
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Meiers, Geo. R.---------Berkshire, Mass.
Moon, Argyle J.---------Montgomery, O.
Moberg, Clifford--------Warren, Pa.
Mazzulla, Michael, Jr.----Orange, N. Y.
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McCombs, A. R.----------Columbiana, O.
Murphy, Edw. F.--------Franklin, Mass.
Morrison, P. J.--------Beaver, Pa.
McLean, L. C.---------Chesterfield, S. C.
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Main, E. E.--------------Hardin, O.
Micklewright, Jos.--------Lucas, O.
Messinger, Earl P.-------Fairfield, Conn.
Masedo, Jacques---------Brazil
Minervino, Joa------------Brazil
McNally, W. M.---------Lawrence, Pa.
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Musser, Harry G.--------Hancock, O.
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Nobrega, Cleovs----------Brazil
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Neuenschwander, Lloyd----Allen, O.
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Ryback, B. J.----------Cuyahoga, O.
Riley, Jno. A.----------Huron, O.
Rinker, Geo. F.----------Marion, O.
Richeson, Gustavus B.----------Knox
Ribeiro, M. G.----------Brazil
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Steese, A. Raymond----------Stark, O.
Sarisky, J. A.----------Mahoning, O.
Swihart, H.----------Stark, O.
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Shaefer, G. D.----------Paulding, O.
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Sprinkle, Rex----------Adams, O.
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Sernaker, David----------New York, N. Y.
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Schaf, Ray D.----------Hancock, O.
Simon, Paul R.----------Putnam, O.
Schmidt, Solomon----------Putnam, O.
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Sturm, Ralph D.----------Shelby, O.
Staker, Elmer----------Auglaize, O.
Seitz, Sherwood----------Clinton, O.
Smith, Walter S.----------Allen, O.
Schwab, E. Vaughn----------Cuyahoga, O.
Schneider, Harold P.----------Lucas, O.
Sampsell, Chas.---Mahoning, O.  
Spar, Dayle.---Hardin, O.  
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Sherman, Reubel.---Hamilton, O.  
Schieltz, E. A.---Cuyahoga, O.  
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Ames, Dorothy Hardin, O. Greer, Mrs. L. A. Hardin, O.
Ames, Mildred Hardin, O. Gehrisch, Emma Hardin, O.
Battels, Harry Hardin, O. Griffie, Elizabeth Hardin, O.
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Detrick, Dorothy Hardin, O. Morrison, Clara Hardin, O.
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SUMMER SCHOOL
1919
OHIO NORTHERN UNIVERSITY
SUMMER SCHOOL

ALBERT EDWIN SMITH, Ph.D., D.D.,
President
JOHN DAVISON, Ped.D.,
Dean of College of Education

Accredited by the State Department of Public Instruction

Opening Dates June 2, 1919, and July 14, 1919

Special Courses Offered

1. Professional and Academic Courses for Elementary Teachers.
2. Professional and Academic Courses for High School Teachers, Principals, and Superintendents.
3. Courses in Agriculture for Teachers of all Grades.
4. Courses in Domestic Science and Household Arts.
5. Courses in Public School Music for Teachers and Supervisors.
6. Courses in Public School Drawing for all Teachers.
7. Courses in Physical Training and Educational Games.
8. Courses for the Training of Commercial Teachers.
9. Courses in College Preparatory Subjects.
10. Special Courses in Primary Methods and Rural Education.

Special Events

Lincoln Chautauqua
Ben Greet Woodland Players
Illustrated Lectures
Normal Training Required By Law

Under the laws of Ohio, Normal training for Elementary Teachers is to increase each year until 1921. "Eighteen weeks is the requirement for 1918, twenty-four weeks for 1919, thirty weeks for 1920, and thirty-six weeks for 1921 and thereafter."

For High School teachers the amount is to increase each year until 1920: "Twenty-four weeks is required for 1918, thirty weeks for 1919, and thirty-six weeks for 1920 and thereafter."

Those who wish to meet the eighteen weeks requirement should enter April 21st, and classes will be organized at that time to suit their needs. Those who desire to put in twenty-four weeks must enter March 10th at the opening of the Spring Quarter. Those desiring twelve weeks must enter June 2nd, and those desiring six weeks may enter July 14th. These arrangements have been made to accommodate all classes of teachers.

"Certificates of Professional Instruction" will be issued to all students completing the necessary number of weeks of normal work as official evidence that the work required has been successfully done.

Professional Courses For Teachers

The regular Professional Courses will be given in Psychology of Elementary and High School Subjects; History of Education; Principles of Elementary and Secondary Education; Elementary and High School Methods both General and Special; Rural Education; Special Primary Methods in Reading, Language, Games, and Construction Work; Home Economics and Household Arts; Physical Education; Observation and Practice Teaching; Methods in Composition and Literature; General History and Methods; American History and Methods; European History in the Last Half Century; The Teaching of History and Civics; Educational Hygiene; Elementary and Secondary School Administration; The Teaching of Agriculture and Agronomy; Public School Music for Teachers and Supervisors; Rudiments and Sight Singing; Piano, Harmony, Violin, and Organ; The Teaching of Bookkeeping, Penmanship, Commercial Arithmetic, Shorthand, and Typewriting; Public Speaking, Platform Reading, and Dramatic Training and such other branches as may be called for by a sufficient number.
In the presentation of all the professional courses three lines of development are followed: A rapid review of the fundamentals, advanced knowledge of the subjects, and a consideration of the best methods of teaching them. Professional credit will be given for the completion of the following:

**SUBJECT** | **TIME** | **PROFESSORS**
--- | --- | ---
Arithmetic | 8:30 a. m. | Younger
Grammar | 9:30 a. m. | Schoonover
Geography | 1:00 p. m. | Insley
U. S. History | 9:30 a. m. | Niswander
English Composition | 2:00 p. m. | Freeman
Orthography | 7:00 a. m. | Schoonover
Agriculture | 1:00 p. m. | Insley
Physiology, Hygiene | 7:00 a. m. | Raabe
Music | 7:00 a. m. | Killeen
Drawing | 7:00 a. m. | Long
Physical Training | 2:00 p. m. | Wilson
Latin | 4:00 p. m. | Whitworth
English Comp. H. S. | 7:00 a. m. | Freeman
Modern Languages | 3:00 p. m. | Groth
Physics | 8:30 a. m. | Berger
Chemistry | 1:00 p. m. | Sleesman
Botany | 1:00 p. m. | Raabe
Mathematics H. S. | 8:30 a. m., 1 p. m. | Rothrock
Biology | 8:30 a. m. | Loy

**Summer Lecture Courses**

The Summer Lecture Courses which have long been a popular feature of the work will be continued this year. Dr. F. B. Dyer, for nine years Superintendent of the Boston Schools, will be present during the week beginning June 16th. Dr. Dyer is recognized everywhere as one of the greatest educational leaders in the nation. His rich experience in school administration makes his lectures of vital interest and inestimable value to teachers. His great lecture, "How We Learn," is alone worth twice the cost of the Summer School to any teacher.

Dr. L. H. Beeler, of Chicago, whose lectures last year were so helpful and inspiring, has consented to come again for the week beginning July 21st. He is devoting his life to helping teachers and whatever he can do to give them personal aid is always freely and gladly done. No teacher can afford to miss any of his lectures. Tickets will be issued to all Summer Students and those who attend the lectures will be given professional credit, as usual, if found worthy, by passing the necessary examinations.
Expenses

Good board costs from $3.00 to $3.75 a week, and furnished rooms, two in a room 75 cents to $1.25 each a week.
Tuition for the Summer Quarter $16.00.
Tuition for six weeks term $10.00.
The total expenses for a term of six weeks need not exceed $35.00.

All students paying the regular tuition fee are admitted to the general classes in Penmanship and Rudiments of Music without extra charge.

Ohio Northern originated the Summer School idea. It has been for many years a popular place for teachers to spend their vacations in professional study. Better advantages are offered for the Summer of 1919 than ever before. Teachers can enter March 11th for the Spring Quarter, or June 2nd for the Summer Quarter and receive credit for work done in all departments of the University.
All medical colleges of first rank demand a minimum of one year's preparation for admission to the medical school that the candidate shall have completed a four-year high school or preparatory course with at least 15 units of credit, and the first two years of study of a college course which satisfies the dental service upon which the study of medicine rests.

A total of not less than 90 credit hours (60 semester hours), excluding military drill or physical education, are required. All the 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 and Pennsylvania School of Medicine that the college work should include three years of work (120 credit hours on a full-time or 20 hour

While the student may begin the preclinical work during the summer quarter, it is more desirable that the work be started in the fall.
The collegiate courses which are required of premedical students are represented in the following upward.

**First Year**

**Fall**
- Winter
- Spring

**Second Year**

**Fall**
- Winter
- Spring

Note: Students who expect to enter Medical College that requires Latin for admission should plan to complete 2 units (Latin Grammar + Cæsær) while in high school, or complete this work in Ohio within addition to the above two year collegiate courses.

Prospective medical students should consult their chief advisor the dean of college of liberal arts. Questions or inquiries may be addressed to him.

Students have had a year course in Biology in H.S., will take Physics instead of Biology first year, in which new Physics...