Forty-Second Annual Catalogue

OF

OHIO NORTHERN UNIVERSITY

ADA, OHIO

1911-1913

PRESS OF
THE UNIVERSITY HERALD
ADA, OHIO
Ohio Northern University Bulletin

New Series. ADA, OHIO, MAY, 1912 Vol. V., No. 7

CATALOGUE NUMBER

This issue of the Bulletin contains the courses of study for 1912-1913, certain information general and specific regarding tuition-rates, cost of board and rooming, conditions of entrance, calendar, roster of names for 1911-1912, and other matters of interest to prospective students.

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in North Western Ohio, on the Pittsburgh, Fort Wayne & Chicago Branch of the Pennsylvania Railroad. It is midway between the intersection of the Cincinnati, Hamilton & Dayton, the Detroit, Toledo & Ironton, and the Lake Erie & Western Railways at Lima, and the Big Four at Forest. Connection is made with the Hoeking Valley at Upper Sandusky, thirty miles east, and with the Ohio Central Lines at Dunkirk, ten miles east.

Lying on the great watershed separating the waters tributary to the Ohio and Mississippi from those flowing into the Great Lakes, Ada 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 works, and constant building and renovating in residence and business blocks evidence the wide-awareness of the citizens in the matter of public utilities and city improvements. Exclusive of students the population is about three thousand. The
people are moral, large-hearted, and especially kind and courteous to students, taking pains to make their stay at the University pleasant and home-like. For several years the saloons have been banished from Ada and now the entire county is "dry" under the Rose Local Option Law.

Object

The Ohio Northern University welcomes to her privileges the worthy of all classes, but extends a special invitation to self-dependent young men and women eager to secure the benefits of a liberal education. Her leading aim is to furnish thorough, practical instruction in all the departments at a minimum expense to the student. The 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.

Uniqueness

In many features the Ohio Northern University is unique. Attention is respectfully called to a few characteristics.

The school year consists of forty-nine weeks, divided into five terms. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years of three terms each, credit is based on number of hours of class work done in each required or elected subject.

Students enter at any time (except in the College of Pharmacy), find their place where their certificates or examination credits rank them, pursue their studies as many terms as their plans and means allow, and are duly credited on the record books with the work done. On satisfactorily completing the required number of hours in the selected curriculum they receive the appropriate degree.

Jeans and broadcloth have equal chance. The atmosphere is thoroughly democratic, a leading characteristic being the marked sociability of the students, a majority of whom are young people relying mainly on their own pluck and push.

N. B. For catalogues and other information, address the Corresponding Secretary, Prof. Charles B. Wright, Ada, Ohio.
CATALOGUE FOR 1911-1913

CALENDAR

1912

June 2, Sunday, (10:00 A. M.) .................. Baccalaureate Sermon
June 3, Monday, (1:30 P. M.) .................. Field Day Sports
June 3, Monday, (8:00 P. M.) .................. Lehr Oratorical Contest
June 4, Tuesday, (9:00 A. M.) .................. Meeting of the Board of Trustees
June 4, Tuesday, (9:00 A. M.) .................. Graduation Entertainment of College of Expression.
June 4, Tuesday, (2:00 P. M.) .................. Athletic Sports
June 4, Tuesday, (8:00 P. M.) .................. Graduation Entertainment of College of Music.
June 5, Wednesday, (9:00 A. M.) ............... Military Contest
June 5, Wednesday, (3:00 P. M.) ............... Society Reunions and Receptions.
June 5, Wednesday, (8:00 P. M.) ............... Oratorio by Choral Society
June 6, Thursday, (9:00 A. M.) ............... Class Day Exercises
June 6, Thursday, (2:00 P. M.) ............... Forty-second Annual Commencement.
June 6, Thursday, (8:00 P. M.) ............... Military Companies’ Reception
June 7, Friday .................................. Spring Term Ends
June 11, Tuesday ............................... Summer Term Begins
July 1, Monday .................................. Model School Opens
July 26, Friday .................................. Model School Closes
August 9, Friday ............................... Summer Term Ends

SUMMER RECESS

September 2, Monday .......................... Registration
September 3, Tuesday .......................... Fall Term Begins, 8:00 A. M.
October 8, Tuesday ............................ College of Pharmacy Opens
November 8, Friday ............................ Fall Term Ends
November 12, Tuesday .......................... Winter Term Begins

1913

January 17, Friday .............................. Winter Term Ends
January 21, Tuesday ............................ Middle Term Begins
March 28, Friday ............................... Middle Term Ends
April 1, Tuesday ............................... Spring Term Begins
June 6, Friday ................................. Spring Term Ends
June 10, Tuesday ............................... Summer Term Begins
August 8, Friday ............................... Summer Term Ends

SUMMER RECESS

September 2, Tuesday .......................... Fall Term 1913-1914 begins, 8:00 A. M.
### BOARD OF TRUSTEES

**Elected by the Conference**

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<td>1902</td>
<td>HON. J. B. PUMPHREY</td>
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<td>HON. S. A. HOSKINS, A. M.</td>
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<td>MR. W. W. EDWARDS</td>
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<td>MR. GEORGE WHITNEY</td>
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**Elected by the Alumni**

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<td>1908</td>
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<td>1909</td>
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<td>REV. J. WESLEY HILL, D. D., LL.D.</td>
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<td>1911</td>
<td>REV. WM. F. MCKEE</td>
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### At Large, Elected by the Trustees

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<td>1911</td>
<td>HON. HENRY CLEWS, PH. D., LL.D.,</td>
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<td>1911</td>
<td>HON. JUDGE R. M. WANAMAKER</td>
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### Officers

S. A. HOSKINS, President.

E. J. CAREY, Secretary and Treasurer.
Committees


Executive: Messrs. Bowman, Hill, Keller, Neeley, Pumphrey, Smith (ex-officio.)


Conference Visitors for 1911-12

Rev. B. F. Reading, Toledo.        Rev. Eli L. Motter, Bradford
OHIO NORTHERN UNIVERSITY

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(Absent on leave.)

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CHILDE HAROLD FREEMAN, B. Sc.
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CHARLES AMOS DICE, A. M.,
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FRANK LEWIS BERGER, A. B.,
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Law, Economics.

JACOB SWART,
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CATALOGUE FOR 1911-1913

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Dean of Normal College.
Pedagogics and Methodology.

JOHN Gamble Park, A. M.,
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IONA May Kilmer, B. Ped.,
Arithmetic, Algebra, Geometry

Estelle Finney,
Critic Teacher.
(Summer Term.)

Katherine M. McCarty,
Supervisor and Critic Teacher.
(Summer Term.)

Ellen G. McGrath,
Methods in the "Grades."
(Summer Term.)

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Dean of College of Engineering.
Civil Engineering.

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Mathematics.

Dressel DeWitt Ewing, M. E., E. E.,
Electrical Engineering.

Grant Roebun Haight, C. E.,
Mining and Municipal Engineering.

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Guy Roland Taylor, M. C. S.,
Practical and Theoretical Business Department.

Emmet Elijah Long, B. C. S.,
Commercial Arithmetic, Penmanship.

George William Scheid, B. C. S.,
Stenography, Typewriting.

John Frank Kennedy,
Telegraphy.
OHIO NORTHERN UNIVERSITY

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Dean of College of Pharmacy.
Pharmacy.

LENIX CRAIG SLEESMAN, PHAR. G., PHAR. C.,
Organic Chemistry, Pharmacy.

RUDOLPH HENRY RAABE, PHAR. G., PHAR. C.,
Practical Pharmacy, Demonstrator in Laboratory.

CHARLES SANKEY WENGERD,
Dean of College of Music.
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MAY ALCOTT LANCE, MUS. B.,
Piano, Organ.

IVA IDELLA ALBAUGH, MUS. B.,
Piano.

VERA WATSON,
Violin.

SHILO SHAFFER MYERS,
Public School Music.
(Summer Term.)

JENNIE BOWMAN, M. EXP.,
Dean School of Expression.
Dramatic Art, Physical Training.

MARTHA HELEN LEBY, B. F. A.,
Drawing, Painting, Etc.

EDGAR CASNER RICHEY, B. SC.,
Dean of College of Agriculture.

LIEUT. WILLIAM S. NEELY, U. S. A.,
Commandant.
Military Science.

RUSSELL BIGELOW LITTLE,
Assistant in Physiology.

IRVING GARWOOD,
Assistant in English.

PIERRE HABER,
Assistant in Mathematics.

CHARLES WADE LAMBERT,
Assistant in Engineering.
CATALOGUE FOR 1911-1913

HARRY GLENN PORTS,
Assistant in Physics and Chemistry.

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Librarian.

FLO L. CRONBAUGH,
Stenographer.

A. A. THOMAS, A. B.,
Financial Agent.

Z. B. CAMPBELL,
Endowment Financial Secretary.

RALPH LEROY DONNAN,
General Secretary Y. M. C. A.

HIRAM CORNELIUS COOLIDGE,
Custodian of Buildings.

Faculty Organization

DR. A. E. SMITH, Chairman.
HENRY WHITWORTH, Secretary.
R. H. SCHOONOVER, Librarian.
ALFA HOLMES, Registrar.

Committees

Agriculture: Professors Richey, Kreglow, Wright, Smull.
Athletics: Professors Smull, Richey, Neely, Ewing, Sleesman.
Catalogue: Professors Whitworth, Wright, Dr. Smith.
Editing: Professors Wright, Freeman, Miss Holmes.
Finance: Professor Wright, Miss Holmes, Dr. Smith.
Library: Professors Schoonover, Maglott, McCracken.
Literary Societies: Professors Willis, Schoonover, Smull.
Military: Professors Dice, Wright, Freeman.
Standing and Graduation: Professors Whitworth, Kreglow, Freeman.
Student Publications: Professors Freeman, McCracken, Smull, Wright, Whitworth.
Summer School: Professors McCracken, Wright, Willis, Freeman.
THE OHIO NORTHERN UNIVERSITY

Historical Sketch

In the later "sixties," half a century ago, Henry S. Lehr, a young pedagogue from Eastern Ohio, found his way westward into the village of Ada, then known as Johnstown. He obtained employment as a teacher in the Union Schools and subsequently taught a series of terms of "select" school. His spirit, enthusiasm and helpfulness, together with a keen appreciation of the practical in subjects and methods, attracted many "foreign" students and would-be teachers to his school. The dream of founding a great normal school in which plainness, practicalness and inexpensiveness were to be the main characteristics, became a master passion directing his thought, shaping his plans, and at last taking definite and actual form. In the year 1870-71 the first building, a large three-story brick, was erected and on August 14, 1871, the Northwestern Ohio Normal School 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 the fall of 1875 the Northwestern Normal School located at Fostoria, Ohio, was consolidated and incorporated with the Northwestern Ohio Normal School at Ada.

From the very start a limited number of special subjects were offered in the courses of instruction, but from time to time, as patronage demanded, department schools were organized as follows: Music, Commercial, Telegraphic, Fine Art, Stenography, Engineering, Military, Law, Pharmacy.

In 1885 the name was changed from Northwestern Ohio Normal School to Ohio Normal University, the plan and management remaining the same, and normal principles and methods marking the administration.

From its inception the school was under private management and control until, in September 1898, the owners sold to the Central Ohio Conference of the Methodist Episcopal Church the real estate and personal property belonging to the University.

Under the new administration, as fast as existing contracts permitted, came a change in the relations of the several departmental schools with the main school. These, heretofore semi-independent, were now reorganized under one management and control, and the respective deans placed on salary instead of com-
mission. At the same time instruction in the main school was made departmental, with the head-teacher in each department director thereof.

In 1904-5 the institution was rechartered under the name Ohio Northern University.

Material Equipment

The University Campus lies in a resident portion of the village, a few blocks south of the Pennsylvania Station. Here “Old Glory” may be seen the year round, waving from the summit of a hundred-foot steel staff a welcome to the chance visitor or prospective student. On this Campus stands the old Normal Hall, endeared by many a cherished memory of the early struggling days of the school; the Administration building erected by the citizens of Ada and leased to the original proprietors of this school, but a few years ago deeded to the present owners; Dukes Memorial, located on the south side of the Campus, devoted to science, engineering and law; Brown Auditorium in the northeast angle of the Campus, an assembly hall for gatherings of all kinds, from sermon-lectures to basketball; the Pharmacy Building in the northwest angle, recently remodeled and newly equipped; and just outside, southwest of the quadrangle, Music Hall with its assembly room, offices and private practice rooms cozy and convenient. These buildings contain commodious rooms well lighted and heated by the University’s central steam heating system. At night they are lighted with electricity.

The large Chemical and Physical Laboratories are equipped with the latest conveniences and apparatus for individual instruction and investigation. In the General Chemical Laboratory are one hundred and twelve lockers provided with apparatus for general work, while the Physical Laboratory has ample accommodation for more than one hundred and fifty students.

The Biology Laboratories are equipped with a sufficient number of Compound Microscopes to enable each student to work by himself. A projection lantern and a projection microscope are used in the laboratory and lecture room for demonstrations and interpretations. Lockers for individual apparatus are provided free.

The Museum contains numerous specimens and collections for illustrating geology and 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 mollusces 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. The department is making a complete collection of the insects of this region. For illustration in anatomy a human skeleton and structural models of various organs are at hand. The arranging of a herbarium representing native flora is well under way. All persons interested in the cause of education are kindly invited to make donations of specimens—geological, mineralogical, zoological, botanical, historical, Indian relics, any kind whatever—to the University. Specimens labeled with the name of the donor will be placed on exhibition.

The Pharmaceutical and Dispensing Laboratories are supplied with ample apparatus and desk arrangement; the equipment affording every facility for thorough, practical, individual work.

The Library quarters in Normal Hall have recently been extended and renovated, and large additions made to the University Library, which is open each day of the week for the convenience of students. There are also four Society and Departmental Libraries supplying a large amount of reading matter, literary and periodical. Current journals and magazines are to be found in the University Library and the Y. M. C. A. reading room.

The attention of the Alumni and all interested is called to the imperative necessity of increasing the library’s efficiency. Any contributions of libraries and of single volumes, practically serviceable in research work in any of the fields of knowledge, will be gratefully received and acknowledged.

Within four squares of the Campus, adjacent to the student housing 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.

The U. S. A. Government supplies a military equipment which at present is under the management of Lieut. William S. Neely, U. S. A.
The University possesses a tract of land within a block and a half of the Campus, containing fifty acres of rich, productive soil under cultivation. Here the Agricultural buildings are to be erected and, in the near future, a well equipped College of Agriculture, already partly organized and giving instruction, will be devoted to the practical demonstration of farm methods and problems, and to the training of young men and women to stay by the land and to realize that independence, culture, social development and free life are to be attained in rural districts as well as in the city.

Curricula

Over twenty different curricula leading to certificate or degree are offered by the University, covering all the subjects of study usually prescribed in the curricula of colleges and special schools. Elementary Biblical Courses are offered to prospective religious teachers and preachers.

Degrees

The University is empowered to grant the customary scholastic degrees, but aims to bestow them on the deserving only. Such honors are not for sale, but must be earned and merited. The management accepts grades of equal value from other institutions of learning, yet the applicant for a degree, coming from another college or university is required to spend at least forty weeks in residence. No diploma is granted on grades made wholly in other institutions.

Literary and Debating Societies

Three flourishing Literary Societies, chartered, and meeting in well furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean, and Adelphian. In addition to the advantages offered in public speaking, these organizations have been the conservators of enthusiastic energy, genuine social enjoyment and loyal devotion to the school. Everywhere the Alumni speak in proud terms of the "old society," and tell of the inspiration and help that have come from the associations and friendships formed in these societies.

Under the supervision of the societies numerous clubs are organized each term for practice in debate and extempore speaking.
Prizes

Through the good-will of Dr. H. S. Lehr of Ada, a prize of $25 is awarded to the winner in the annual Oratorical Contest between the three Literary Societies. This contest is one of the attractive features of Commencement week. At the contest in 1911 Dr. Lehr offered an additional prize of $10 to the contestant holding the second place.

Hon. I. N. Kuhn of Waynesburg, Pa., an alumnus, has provided for two annual prizes of $15 and $10 to be given to the successful contestants in Franklin Literary Contest.

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 of the Adelphian Literary Society, has permanently provided for $15 and $10 prizes for the winners in that Society.

Dr. A. E. Smith, the president, in each summer term, offers a prize of $10 to the winner in the Spelling Contest open to all students.

Government

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. Hence 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.

Rooming Houses for Women

Beginning with the Fall Term, September 3, 1912, young ladies coming from homes outside of Ada, will be 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.
Moral and Religious Culture

Mere intellectual and physical training apart from moral and religious culture results in deformity of character. Much attention, therefore, is given to awakening and fostering an inspiration to attain to the highest type of Christian manhood and womanhood.

While the University is the property of the Central 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 seven churches of the city cordially invite students to their religious and social meetings, and heartily welcome them to veritable church homes.

Convocations are held each school day 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.

Y. M. C. A. and Y. W. C. A.

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 Men's Christian Association occupies a very prominent place in the University life. It is affiliated with the World's Christian Federation and is under the direction of the State and International Committees. The local Association employs a General Secretary who gives his entire time to the work and is at the service of every man wishing friendly and confidential talks over problems affecting the life of a college man.

The privileges of membership include the use of the exercise and bath rooms as well as a voice in shaping the policy of the organization.

The Young Women's Christian Association has a strong organization in the University, with a membership including about ninety percent 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 term Bible and Mission Study classes are organized under efficient teachers.

The Association is supporting a child in an orphanage in India, and also contributes to the maintenance of a General Y. W. C. A. Secretary in India.

A parlor and rest room for the young women, with office and toilet room attached, has been fitted out in the administration building.

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

Athletics

Encouragement is given to Athletics, and college teams in baseball, football, basketball, and track athletics are maintained. Interdepartmental and interclass 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 are elected by the Athletic Association, a student organization, to which any student of the university may belong.

Military Drill Compulsory

Every able-bodied male student intending to complete any of the University curricula, or taking work necessitating two years or more of attendance, is required to drill and recite in this department three terms and "go through contest."

Aid to Students

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. No security is required other than a recommendation from a quarterly conference. Loans are made at the beginning of each term. Application should be made two weeks before the
opening of the term, and no applicant can be received later than
the close of the first week of the term. The maximum amount
that can be allowed to each applicant is $50 a year. Many of
the best students avail themselves of this advantage.

For further information, address the President.

Many students in the University make their entire expenses
by working as waiters, janitors, and at other occupations in the
town and vicinity, and, at the same time, carry full work in their
studies.

Rooms, Boarding and Home Comforts

The University has no dormitory, owns no boarding-house,
nor feeds its impeccable students in the basements of its build-
ings. The matter of rooming and boarding students is left to the
large number of families engaged in this business for a livelihood.
The competition is sharp, and good, substantial living is offered
at remarkably low cost.

Good board in private families costs from $1.65 to $2.50 a
week.

Furnished rooms, two in a room, 50 cents to 75 cents each a
week.

Light and fuel, 5 cents to 30 cents a week.
Laundry, 15 cents to 25 cents a week.

Self-boarding reduces these expenses somewhat.
The town is lighted with electricity; coal is the chief fuel,
and many houses are heated by hot-air furnaces 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.

For cost of tuition, see "Expense" under the various schools
and colleges. Needful expenses are reduced to a minimum.

What to Do on Arrival

Persons intending to enter the University and desiring to ar-
range beforehand in regard to course of study, board and room,
will address the President or Corresponding Secretary.

On arrival the newcomer is met by students ready to wel-
come and assist in securing a lodging place and boarding house.
He is expected, however, to report at once at the University Of-
file in the Administration Building, obtain a card of matricula-
tion and arrange his work. After matriculation, on payment of the tuition fee, he is given with the receipt a "classification card" which, when presented to the instructor in charge of any class, admits him to that class.

Monday is Registration Day for new students, Tuesday for former students.

All students, former and new, will report to their instructors on Tuesday and be ready for Wednesday's recitations and lectures.

**Reports to Parents and Guardians**

Should any parent or guardian desire to acquaint himself with his son's or ward's standing in the work of any term, a report may be had by addressing a request to the president. Such reports will be made out and sent only on request and at the close of a term's work.

**Departments of the University**

I. The Preparatory School.
II. The College of Liberal Arts.
III. The Normal College.
IV. The College of Engineering.
V. The College of Commerce.
VI. The College of Law.
VII. The College of Pharmacy.
VIII. The College of Music.
IX. The School of Expression.
X. The School of Fine Arts.
XI. The College of Agriculture.
XII. The Department of Military Instruction.

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**THE PREPARATORY SCHOOL**

**Aim**

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.
A unit is the amount of work done in a “first-class” high school in reciting previously prepared work once a day, five days a week, throughout a year of thirty-six weeks. Its time equivalent is 120 clock-hours.

Two curricula, not greatly variant, are offered, the “Classical,” required of those intending to take collegiate work leading to the degree of Bachelor of Arts, and the “General” for those looking toward the other degrees in the College of Liberal Arts.

If a student on completing the preparatory curriculum here, 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, and by the supreme Court of Ohio in lieu of the “preliminary” to the bar examinations.

### Classical

- English, 2.9 units; mathematics, 1.9 units; science, 1.9 units; history, 2.2 units; Latin, 4 units; Greek, German or French, 2.2 units; total 15.1 units.

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<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
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<tr>
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English, 2.9 units; mathematics, 1.9 units; science, 2.6 units; history 2.6 units; Latin, 1.8 units; German or French or Spanish, 2.2 units; total 18.1 units.

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DESCRIPTION OF COURSES

English

1. **English Composition.** (Hitchcock). 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, etc. Some attention given to versification. Stevenson’s Treasure Island is read Short daily themes are required.

2. **Rhetoric I.** (Gardiner, Kittredge and Arnold). Narration and description. This course is closely co-ordinated with English literature. Dickens’ A Tale of Two Cities is carefully studied. The theme work is largely based upon the literature the student has studied. Three short themes are required each week, and five long themes for the term. Prerequisite: Course 1.
3. **Rhetoric II.** (Gardiner, Kittredge and Arnold). 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. Burke's Speech for Conciliation is 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*; Stevenson's *Treasure Island*; Gray's *Elegy*. Attention is given to the biographies of the authors and to versification. Prerequisite: Course 1.

5. **English Literature II.** (Long). This course comprises a study of the history of English literature to the Age of Romanticism. The following classics are read: Shakespeare's *As You Like It*; Scott's *Ivanhoe*; George Elliot's *Silas Marner*; Chaucer's *Prologue*; Tennyson's *The Idylls of the King*; Addison's *DeCoverly Papers*. Prerequisite: Course 4.

6. **English Literature III.** (Long). This course includes (1) a study of the history of English literature beginning with the Age of Romanticism; and (2) the study of the following classics: Hawthorne's *House of Seven Gables*; Browning's *Shorter Poems*; Thackeray's *English Humorists*; Palgrave's *Golden Treasury*; Shakespeare's *Julius Caesar*, and Selections from Huxley. Prerequisite: Course 5.

7. **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*; and selected poems of Bryant, Longfellow, Whittier, Poe, Lowell, Lanier.

8. **English Literature IV.** (Long) Carlyle's *Essay on Burns*; or Macaulay's *Life of Samuel Johnson*; Burke's Speech for Conciliation; Shakespeare's *Macbeth*; Milton's *Comus*, L'Allegro, *Il Penseroso*. In each of the courses, 4, 5, 6, 7 and 8, a number of short papers are required. Prerequisite: Course 6.
Mathematics

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

2. **Algebra II.** Fractions, fractional equations, simultaneous equations, simple indeterminate equations, inequalities involving and evolution, theory of exponents, radicals.

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

4. **Geometry I.** Plane. Principles and definitions, demonstrations and theorems. Special stress is laid on original exercises and numerical problems.

5. **Geometry II.** Plane. Continuation of course 4.

6. **Geometry III.** Solid. Demonstrations of theorems in solid geometry; original problems.

Science

1. **Physics I.** 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 term and six hours a week the last half are spent in individual laboratory work by each student.

2. **Physics II.** Lectures and recitations on sound, heat and light. Each student spends fifty hours in individual laboratory work on these subjects.

3. **Physics III.** Lectures, recitations and demonstrations in magnetism and electricity. Fifty 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. Students may enter the class at any time. 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. Laboratory work two days each week.

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. This course or its full equivalent is required of all students for College Entrance.

6. Botany I. (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. This course or its equivalent is required for college entrance.

History

1. Ancient History. A short introductory study of the early ancient nations, special reference to Greek and Roman history, and the chief events at the early Middle Ages, down to the death of Charlemagne (814).

2. Modern History. European history from the death of Charlemagne to the present time.

3. English History. Instruction in this branch will show the development of the Anglo-Saxon race and civilization. The growth of the English constitution, judiciary system, and religion and civil liberty will be special features. Her social problems, her economic and commercial progress and the influence of the English people on the world’s history will be carefully considered.

4. American History I. Early discoveries, explorations, and settlements in America; growth and development of the colonies; Revolutionary War; formation and adoption of the constitution; critical period.

5. American History II. Continuation of History I. A study of the trends of growth from the critical period to the present; attention given to preparation for teachers' examinations.

Latin

1. First lessons based on Jenner and Wilson's "Caesar's First Campaign." Five hours a week. Three terms. Roman pronunciation.

2. Caesar's Gallic War, three books, and prose composition. Five hours a week. Two terms. 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. Pearson's Prose Composition.

3. Cicero and prose composition; six orations, including the four against Catiline and the Manilian Law. Five hours a week. Three terms. Allen and Greenough, or any quantity-marked text, is used. Pearson's Prose Composition.


Greek

1. First lesson based on White's "First Greek Book." Five hours a week. First term, lessons 1-27; second term, lessons 28-54; third term, lessons 55-80.

2. Xenophon's Anabasis, four books. Goodwin's text. Five hours a week. Three terms.

German

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

2. German II. Continuation of course I.

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

4. German IV. Continuation of course III.

5. German V. Reading and translation of masterpieces of representative German authors, study of syntax, prose composition.

6. German VI. Study of German classics, prose composition, conversational praxis.
French

2. French II. Continuation of course I.
4. French IV. Continuation of course III.
5. French V. Reading and translation of French masterpieces, studies in syntax, conversational praxis.

Review of Common Branches

Classes for review of the "common branches" are formed in the Normal School, to which students of the Preparatory School are admitted if they so desire.
OHIO NORTHERN UNIVERSITY

COLLEGE OF LIBERAL ARTS

FACULTY

ALBERT EDWIN SMITH, D. D., PH. D.,
President.

HENRY WHITWORTH, A. B.,
Dean.
Latin.

FREDERICK MAGLOTT, A. M.,
History, Geography, Astronomy.

MRS. EVA MAGLOTT, A. M.,
Mathematics.

SAMUEL PRESTON AXLINE, A. M., LL. D.,

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

FRANK BARTLETTE WILLIS, A. M.,
Civics, Economics, History.
(Absent on leave.)

WILLIAM GROTH, A. B.,
French, German, Spanish.

GROVER C. KREGLOW, B. S., A. B.,
Biology, Geology.

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

CHARLES AMOS DICE, A. M.,
Psychology, Ethics, Philosophy.

JESSE BEER, B. Sc.,
Physics and Chemistry.

IONA MAY KILMER, B. BED.,
Mathematics.

JOHN GAMBLE PARK, A. M.,
Logic.

FRANK LEWIS BERGER,
Physics and Chemistry.
Requirements for Admission

Applicants for admission to the College of Liberal Arts, registering as candidates for the Bachelor degrees, must complete the required preparatory work, if their certificates from other schools show that this work has not been finished. All preparatory work must be finished before Junior credentials are issued.

Those not desiring to take a full regular curriculum may at any time, 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.

A unit of admission-credit is based on the work done in a First Grade High School in one year. This means five recitation periods a week for thirty-six weeks, (120 clock hours), two laboratory periods being reckoned as the equivalent of one recitation period. A half-unit is the work done in a half-year.

Fifteen such units are required for admission to collegiate rank.

Credits in the starred subjects in each of the groups mentioned below are demanded of every candidate. From the subjects not starred he selects the additional units required for admission. If he selects subjects from the Foreign Language Group he must present at least two units in any language selected, and if he expects to take collegiate Latin, he must present at least four units of Latin.

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 committee on
standing reserves the right to reject any or all grades from a second or third class High School. State life certificates receive recognition; county certificates only in the "common branches."

Preparatory Subjects

**English Group.** *Composition and Rhetoric, 1½ units; *English Literature (Elementary), ½ unit; *English Literature [advanced], ½ unit; *American Literature, ½ unit.

**Mathematics Group.** *Algebra (to quadratics), 1 unit; *Algebra (through quadratics), ½ unit; *Geometry (Plane), 1 unit; Geometry (Solid), ½ unit; Book-keeping, ½ unit.

**Science Group.** *Physics, 1 unit; *Physical Geography, ½ unit; *Botany, ½ unit; Physiology, 1 unit; Chemistry, 1 unit; Astronomy, ½ unit; Geology, ½ unit; Zoology, ½ unit; Agriculture.

**History Group.** *United States History, 1 unit; General History, 1 unit; English History, ½ unit; Grecian or Roman History, ½ unit; *Civil Government, ½ unit; *Ancient History, 1 unit; *Modern History, 1 unit.

**Foreign Language Group.** *Latin, Beginning, 1 unit; *Caesar, 4 books, with prose composition, 1 unit; Cicero, 6 orations, with prose composition, 1 unit; Virgil, 6 books, 1 unit.

**Greek**, Beginning, 1 unit; *Anaebasis, 4 books, 1 unit.

**German**, Beginning, 1 unit; Advanced (grammar and literature) 1 unit.

**French**, Beginning, 1 unit; Advanced (grammar and literature) 1 unit.

**Manual Training.**

**Scope of Preparatory Requirements**

**ENGLISH**

**Orthography.** A thorough acquaintance with the elements of orthography and word analysis as presented in any of the recent text-books on analytical orthography.

**Grammar.** An acquaintance with the principles of grammar and an "ability to state them intelligently and to explain the syntactical structure of any sentence encountered in reading."

**Composition.** Ability to write good English with clearness and mechanical accuracy. This ability can be acquired only by abundant practice in description, narration, argumentation and exposition, under criticism by the teacher and with revision by the pupil.

**Rhetoric.** Formal instruction in the principles of rhetoric most likely to be of service in the practice of writing. The equivalent of Herrick and Damon's, Hart's, Scott and Penny's, or Lockwood and Emerson's elementary composition and rhetoric.

**English Classics for 1913.** *(A) A thorough study resulting in the knowledge of the subject matter, form and structure of Shakespeare's Macbeth; either Milton's Lycidas, Comus, L'Allegro, Il Penseroso, or Tennyson's Idylls of the King; either Burke's Speech on Conciliation with America, or Washington's Farewell address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.*
(B) For general reading and composition work ten books selected from the following groups: Group 1, (two to be selected), Shakespeare's *As You Like It*, Julius Caesar, Merchant of Venice, Twelfth Night, Henry the Fifth. Group 2, (one to be selected), Bunyan's *Pilgrim's Progress*, Part I.; Bacon's *Essays*, The Sir Roger de Coverly Papers in *The Spectator*, Franklin's *Autobiography*. Group 3, (one to be selected), Chaucer's Prologue; selections from Spenser's *Faerie Queen*; Pope's *Rape of the Lock*; Goldsmith's *Deserted Village*; Palgrave's *Golden Treasury*, first series, books II. and III. with especial attention to Dryden, Collins, Gray, Cowper and Burns. Group 4, (two to be selected), Hawthorne's *House of Seven Gables*; Thackeray's *Henry Esmond*; George Eliot's *Silas Marner*; Dickens' *A Tale of Two Cities*; Scott's *Ivanhoe*, Quentin Durward; Goldsmith's *Vicar of Wakefield*; Mrs. Gaskell's *Cranford*; Blackmore's *Lorna Doone*. Group 5, (two to be selected), Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*; Irving's *Sketch Book*; Carlyle's *Hero as Poet, Man of Letters and as King*; De Quincey's *Joan of Arc* and the English Mail Coach; Lamb's *Essays of Elia*. Group 6, (two to be selected), Palgrave's *Golden Treasury*, first series, book IV., with especial attention to Wordsworth, Keats and Shelley; Coleridge's *Ancient Mariner*; Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Poe's Poems; Tennyson's *Gareth and Lynette*, *Launcelot* and Elaine, *The Passing of Arthur*; Arnold's *Soirab* and Rustum; *Byron's Mazeppa*, *The Prisoner of Chillon*; Macaulay's *Lays of Ancient Rome*; and Browning's *Cavalier Tunes*, *Lost Leader*, How They Brought the Good News, Evelyn Hope, Home Thoughts from Abroad, *Home Thoughts from the Sea*, Incident of the French Camp, *The Boy and the Angel*, One Word More, *Herve Riel*, *Phaedippides*.

**MATHEMATICS**

*Algebra.* The equivalent of Milne's or Wentworth's High School Algebra or Taylor's Elements.

*Geometry.* Wentworth's Plane and Solid Geometry, or an equivalent.

*Bookkeeping.* A practical acquaintance with the theory of keeping accounts, so far as covered in the usual high school course in one-half year.

**SCIENCE**

*Physics.* An amount equivalent to what is compassed in Carhart and Chute's, or Gage's high school physics, supplemented with work in the physical laboratory to the extent of one-class period a week throughout the year.

*Physical Geography.* At least one of the more recent text-books supplemented with observational work in connection with field excursions.

*Botany.* A study of germination, growth and reproduction of flowering plants including plant structure, physiology and classification. This includes field and laboratory work.

*Physiology.* As much as is contained in Martin's *Human Body* (briefer course.)

*Chemistry.* The equivalent of Remsen's *Introduction to Chemistry*, including individual laboratory work.

*Geology.* The equivalent of *LeConte's Geology* (high school text) supplemented with field and observational work.

*Zoology.* The equivalent of Needham's *Elementary Lessons in Zoology*, studied by laboratory method.

*Astronomy* The equivalent of Young's *Elements of Astronomy.*
HISTORY

American History. The equivalent of Hart's or Fiske's United States History.

General History. The equivalent of Myer's or Sheldon's General History.

English History. The equivalent of Larned's or Cheyney's History of England or Gardiner's Students' History of England.

Grecian History. The equivalent of Myer's History of Greece.

Roman History. The equivalent of Leighton's or Myer's History of Rome.

Civil Government. The equivalent of Fiske's Civil Government or Andrew's Manual of the Constitution.

FOREIGN LANGUAGE GROUP

Latin. In elementary Latin the equivalent of Collar and Daniell's First Year in Latin, in amount and character. A thorough acquaintance with inflections and the general principles of syntax is required. Readings: four books of Caesar, six orations of Cicero and six books of Virgil. In connection with Caesar and Cicero, systematic work in prose composition is an essential part of the requirement.

Greek. An equivalent of White's First Greek Book for the elementary work. Readings: four books of Xenophon's Anabasis.

German. The applicant is expected to be able to pronounce correctly, to have an accurate knowledge of the elements of the grammar, to be able to translate easy prose from English into German and from German into English, to have read at least 300 pages of simple German, and to have sufficient facility in speaking German to take part in conversation on topics drawn from the works read.

French. The applicant is expected to be able to pronounce French intelligently and with some fluency, to have a grasp of the elements of grammar, to understand French when spoken in simple phrase and about familiar subjects, to be able to translate easy prose from French into English and from English into French, to have read at least 300 pages of easy prose.

Collegiate Courses

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

1. Agriculture.
4. English.
5. Greek.
6. History.
7. Latin.
9. Modern Languages.
11. Philosophy.
Curricula

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

In addition, a two-year curriculum is arranged for students desiring to emphasize for a shorter time the study of mathematics, history and English language and literature. On the completion of this curriculum a diploma of graduation is granted.

A school year at the Ohio Northern is forty-nine weeks in length. A three-year curriculum means 147 weeks of at least fifteen hours of recitations a week. This is three weeks more than is required elsewhere in four-year curricula based on thirty-six weeks a year with a minimum of fifteen hours a week.

Classical (A. B.)

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# OHIO NORTHERN UNIVERSITY

## Scientific (B. Sc.)

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## Philosophy (Ph. B.)

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<td>Literary Criticism</td>
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<td>Prose Fiction</td>
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<td>Argumentation</td>
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<td>Algebra 3</td>
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<td>Algebra 4</td>
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### FIRST YEAR
- College Rhetoric 1
- Chemistry 1
- Old Test. History

### SECOND YEAR
- Psychology 1
- Political Economy 1
- English Bible 1

### THIRD YEAR
- Sociology 1
- History Civilization
- Psychology 2

### FIRST YEAR
- College Rhetoric 2
- Chemistry 2
- English Bible 2

### SECOND YEAR
- Sociocy 2
- 19th Century Poetry
- Elective

### THIRD YEAR
- Literary Criticism
- Elective
- Elective

### FIRST YEAR
- Hist. Middle Ages
- Poetics
- General Zoology

### SECOND YEAR
- Elective

### THIRD YEAR
- Botany 2
- Shakespeare

### Electives

In addition to the courses herein offered, candidates for degrees are allowed to present credits from the College of Commerce, Law and Music, the School of Oratory and the Biblical Department, as follows:

**Commercial Science**—Theory of Bookkeeping, 5 hours; Commercial Law, Stenography (with typewriting), each 10 hours.

**Law**—Commercial Paper, Contracts, Constitutional Law, Evidence, Domestic Relations, Equity, each 5 hours.

**Music**—Harmony, 15 hours; History of Music, 10; Theory of Music, 5.

**Oratory**—Oratory, 10 hours.

**Theology**—Systematic Theology, 15 hours.

### 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 term, except in the Spring Term, when they fall on Thursday and Friday of the ninth week. Hours: 7:00 and 9:00 a. m., 1:00 and 3:00 p. m. Classes having
recited at the "odd" hours are examined the first day; those having recited at "even" hours, the second day.

Graduation

Diplomas are awarded at the close of any term to all those who have fully satisfied the requirements for the degrees sought. Commencement exercises are held but once a year, in early June. It is expected that, as far as possible, those who have taken out diplomas during the year be present on that occasion. Those whose work, beyond question, will be finished by the close of the Summer Term 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 Standing and Graduation.

Biblical Course

The Christian Ministry is calling to the young manhood of today to enter its sacred offices. The best equipment and the one to be obtained if possible, is a full classical and theological training. The call, however, comes to many in straightened circumstances and of limited means, who cannot see their way clear to get what they want or need. For the benefit of such, the University offers a Biblical Course of two years, embodying varied and thorough work in the subjects most needed.

The course is designed to relieve the young preacher from the burden of Annual Conference examination, since the grades given here will be accepted by the Annual Conference. Furthermore, the work done here will enable the student to take advanced standing if he decides to enter a theological school.

Those pursuing other courses in the College of Liberal Arts may without extra charge select from this course any studies they wish and receive credit therefor as substitutes for electives. Those making this their special course are charged the regular tuition-fee of the College of Liberal Arts.

Classes in the studies of the Biblical Course are formed only when called for and with no fewer than five students. The preparatory work in the College of Liberal Arts is a prerequisite.

For further information address the President.
First Year

FIRST TERM
Introductory Greek, Elements of Hebrew, Old Testament History Geography of Palestine.

SECOND TERM

THIRD TERM
Introductory Greek, Elements of Hebrew, Outlines of Universal History, English Bible.

FOURTH TERM
Greek (one of the Gospels), Hebrew (Judges), Systematic Theology, English Bible.

FIFTH TERM

Second Year

FIRST TERM
Greek (Epistle to the Romans), Introduction to the Scriptures, Systematic Theology, Homiletics.

SECOND TERM
Greek (Epistle to the Hebrews), Systematic Theology, Church History English Bible.

THIRD TERM
Hebrew (Psalms), Butler's Analogy, Church History, English Bible.

FOURTH TERM
Hebrew (Prophetic Writings), Church History, Hermeneutics, English Bible.

FIFTH TERM
Church History, Archaeology, Homiletics, English Bible.

DESCRIPTION OF COURSES

Agriculture

Agriculture I. A general course in Agriculture designed for those wishing to teach Agriculture. It covers the important points in agronomy, including the origin, adaptability and management of soils, the use of fertilizers and the treatment of various farm crops. It includes work in Entomology and Botanical Pathology covering insect and bacterial and fungal diseases together with their treatment. It includes work in Animal Husbandry, Rural Economics, Farm Management and a study of Farm Literature and Agriculture Organizations and Publica-
tions. The course will include some laboratory demonstrations as facilities will permit and will also be extended by collateral reading. A demonstration plot is maintained on the University farm which will be used in season to demonstrate the different methods of fertilization and crop production.—Professor Richey.

Biblical Literature and Christian Religion

1. Old Testament History. A survey of the rise and growth of the Hebrew people, the organization of the Israelitish kingdom, the progress, decay, and downfall of the kingdom, the exilic period, the restoration and intervening events prior to the advent of Christ.

—Professor Schoonover.

2. English Bible I. Prophets. The aim of the course is a constructive view of the message of the different prophets to their own time. The study is based primarily on the English text. Prerequisite: Old Testament History.

—Professor Dice.

3. English Bible II. The Psalms. A study of the devotional literature of the Hebrew people. The forms of Hebrew poetry, the different classes of Psalms and their religious conceptions receive especial notice. Prerequisite: Old Testament History.

—Professor Dice.

4. New Testament History. The birth, life and work of Christ, the works and words of apostolic times to the close of the period covered by the New Testament canon.

—Professor Schoonover.

5. English Bible III. The Gospel of Mark. This is a detailed study of Mark with comparisons of parallel passages in the other gospels. Prerequisite: New Testament History.

—Professor Dice.

6. English Bible IV. The Parables of Jesus. All the great parables of Jesus are studied. The aim is to get the essential teaching of each parable and show that through all runs a consistent meaning. Prerequisite: New Testament History.

—Professor Dice.

7. English Bible V. The Epistles of Paul. This course includes a brief outline of the life of Paul, followed by an analytical and constructive study of the Epistles of Paul. Prerequisite: New Testament History.

—Professor Dice.

—Professor Schoonover.


—Professor Schoonover.

18. Evidences of Christianity. 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.

—Professor Dice.


—Professor Dice.

Biological and Geological Sciences

Professor Kreglow

1. General Biology. A study of the fundamental properties of protoplasm and functions and microscopic structure of all the animal tissues, including cell-division and reproduction. The embryological development of the frog is followed from the egg to the adult and complete dissection of the frog is required of each student. Some attention is given to the historical development of Biology and theories of Organic Evolution.

2. General Zoology. A brief survey of the animal world designed to acquaint the student with the principles of Zoological Classification with the typical representatives of each class. The following forms are dissected: Sponge, earthworm, starfish, mussel, crayfish, locust, fish and frog. Protozoa receive due attention. A comparative study is made of many other forms in field, laboratory and museum. Each student is required to make a special study of the structure and habits of some animal not in the preceding list and present a summary of his observations at the end of the term. This course or its equivalent is prerequisite to historical geology, and is prescribed for all students except candidates for the B. Sc. degree, for whom the next three courses are prescribed.
3. **Zoology I.** A study of Protozoa, porifera, coelenterata and worms. Typical representatives of each class (sixteen in all) are studied in the laboratory.

4. **Zoology II.** A study of echinoderma, mollusca, and arthropoda. Each student is required to dissect sixteen forms and to make a comparative study of additional ones.

5. **Zoology III.** A study of chordata. The laboratory work includes a careful study of amphioxus, a tunicate, balanoglossus, elasmobranch, and teleost fishes, amphibian, reptile and bird.


7. **Botany III.** (Ecology). Field work in the woods, in green-houses and along streams for the study of plant associations and reactions. The native plants are identified and the student is required to prepare a thesis upon some phase of the work. The field work is supplemented with assigned reading and an illustrated lecture once each week.

8. **Botany IV.** A study of Elementary Plant Physiology.

9. **Ornithology and Entomology** courses will be arranged when a sufficient number of students apply for them at the proper season. The work in these subjects covers the general morphology, physiology, reproduction and life-history, and the principles of classification. In the latter half of each course the economic relations receive special emphasis.

**Note.** All laboratory periods are two hours each. A laboratory fee of one dollar is charged in all courses which covers use of compound microscope and accessories, reagents, glassware, desk equipment and all materials which can not be collected in this vicinity by the student. There is no museum or library fee.

10. **Mineralogy.** A study of the appearance, structure and composition of the important rocks and minerals, and the methods of determination by physical characters and simple wet methods. Prerequisites: Physics, and Chemistry.

11. **Blowpipe Analysis.** (Qualitative). A determinative study of the metallic oxides alkalai metals and earths, and acid elements, followed by reactions of the important ores. The important fluxes and both wet and dry methods are used.
12. **Dynamical Geology.** A study of the forces past and present which have brought the earth to its present condition. Prerequisites: Physical Geography, Chemistry and Physics.

13. **Structural Geology.** A study of the earth's crust, dealing with rock form and structure, and the formation of mineral deposits and mountains. This course is a continuation of course 4.

14. **Historical Geology.** The history of the earth and the Organic Kingdom is developed from the beginning. The student makes a systematic study of the fossils in the University Museum. Prerequisites: Botany I., and General Zoology, or equivalents.

**English**

**Professor Freeman**

1-3. **Preparatory Rhetoric.** (See description of courses in Preparatory School).

4-8. **Preparatory Literature.** (See description of courses in Preparatory School).

**Collegiate Rhetoric**

9. **College Rhetoric I.** (Scott and Denny). A thorough study of the paragraph, of the principles of exposition, narration, description, and argumentation. The aim of this course is to give the student a practical knowledge of the principles of rhetoric. Considerable attention is given to the study of style and to that end selections from the prose masters are carefully studied. Daily themes of 200 to 400 words, and five longer fortnightly themes are required.

10. **College Rhetoric II.** (Canby). This course requires the planning and writing of longer themes than Course 9. The emphasis is placed upon description and narration. The careful study of at least one novel and one drama is required. Prerequisite: Course 9.

11. **Argumentation.** (Foster). This course is a detailed study of the principles of argumentation and debating. There is practice in brief making and debating. Classic examples of persuasion are studied; five arguments are written. Prerequisite: Course 10.

12. **Narration.** (Maxey). This course provides for the careful study of the theory of narrative forms; however, em-
phasis is placed upon the novel and the short story. There is ample practice in narrative writing. Prerequisite: Courses 9, 10, 13, 14.

Collegiate Literature

13. Advanced Literature. (Brooks). A general course in English Literature in which the field is covered from an historical, biographical, and critical standpoint. The aim is: (1) to acquaint the student with the leading works of English writers; (2) to trace the development of English literature; (3) to prepare the student for a more intensive study of the great English writers. Prerequisites: Courses 9 and 10.

14. Poetics. (Alden, Manley). This course includes (1) a study of the various forms of poetry, the epic, the lyric, the drama, and their various subdivisions; (2) the structure of poetry, including the stanza, the verse, accent, tone-color, quality, pauses, alliteration, assonance, and rime; (3) a careful study is made of blank verse, the rimed couplet, the sonnet; and of the French forms, the triol.)et, the rondeau, the rondel, the ballade, etc. Prerequisite: Course 13.

15. Nineteenth Century Poetry with especial study of Tennyson and Browning. Rapid consideration will be given to Arnold, Morris, Swineburne, Rosetti. Prerequisites: Courses 13 and 14.

16. Shakespeare I. (Hudson). This course is intended: (1) to trace Shakespeare’s part in the development of the drama of the Elizabethan age; (2) by reading a series of plays in chronological order to show Shakespeare’s development as a dramatist, as a poet, and as an interpreter of human life. Considerable attention is paid to the technique of the drama as understood by Shakespeare. The following plays are read: Love’s Labor Lost, Richard III, Romeo and Juliet, Much Ado About Nothing, Othello, Antony and Cleopatra, and A Winter’s Tale. Five papers are required. Prerequisite: Courses 13 and 14.

17. Shakespeare II. This course includes most of those plays of the periods in which Shakespeare’s genius reached its height. The following plays are studied: As You Like It, Hamlet, Macbeth, Julius Caesar, King Lear, Twelfth Night, Coriolanus and The Tempest. A number of papers are required. Prerequisite: Course 16.
18. Literary Criticism. (Winchester). A study of the principles of literary criticism as applied to the various forms of literary expression. A number of papers are required in this course. Prerequisites: Courses 9, 10, 13 and 14.

19. Prose Fiction. (Perry). The development of the novel, and its place in literature are discussed. Some consideration is given to the short story. Five novels from among the following are read: The Vicar of Wakefield, The Bride of Lammermoor, David Copperfield, The Scarlet Letter, Henry Esmond, Middlemarch, Kidnapped. Prerequisites: Courses 9, 10, 13 and 14.


Greek

PROFESSOR SCHOO NOVER

I. Preparatory Courses

The First Greek Book (White) 3 terms
Xenophon, Anabasis (Goodwin) 3 terms

II. Advanced Courses

1. Epic Poetry Homer, Iliad (Owen) 2 terms
   Odyssey (Owen) 1 term

2. Lyric Poetry Greek Lyric Poets (Tyler) 1 term
   Pindar, Olympian and Pythian Odes (Gildersleeve) 1 term

3. Drama Aeschylus, Prometheus Bound (Prickard) 1 term
   Sophocles, Antigone (D'Ooge) 1 term
   Euripides, Medea (Allen) 1 term

4. History Herodotus, Books VI. and VIII. (Merriam) 1 term
   Thucydides, Book I. (Morris) and III. (Smith) or Books VI. and VII.
   (Lamberton) 1 term
   Xenophon, Hellenca (Manatt) 1 term
5. Philosophy. Plato Apology and Crito (Wagner) 1 term
   Phado (Wagner) 1 term
   Xenophon Memorabilia (Marshall) 1 term

6. Oratory. Demosthenes, De Corona (Abbot and Matheson) 1 term
   Lysias, Ten Orations (Wait) 1 term
   Isocrates, Panegyricus (Sandys) 1 term

7. Sacred Greek. New Testament, one of the Gospels
   (Wescott and Hort) 1 term
   Eusebius, Ecclesiastical History 1 term

Any approved author or book may be substituted in the advanced courses. The courses may be elected entirely or in part. When a class desires to read but one or two authors of any course the remainder of the work in that course will be studied from a literary standpoint in collateral reading and by the use of outlines, lectures, topical research, etc. Each author is studied in his relation to the general outline of Greek Literature, in which work Jebb’s Primer of Greek Literature is made the basis.

Classes will be formed in beginning Greek at the opening of the First Fall Term, the Winter Term and the Summer Term, or at any time that a sufficient number desire, though students are requested to choose those points for beginning as far as possible.

History

Professor Maglott

1. General History. A general survey of the rise, growth, political disturbances, foreign invasions, expansion, decadence and influence of the nations of historic times which have had a marked bearing on the world’s civilization. This course is prerequisite to the remaining courses and its aim is to enable the student to gain a well-defined general idea and a perspective view of Universal History.


5. **History of the Middle Ages.** A more specialized course in the history of Europe from the Fall of Rome to the Saracen Invasion.

6. **Modern History.** Modern states of Europe and their colonization from the downfall of Constantinople.

7. **History of Commerce.** Elective.

8. **History of Civilization.**

**PROFESSOR AXLINE**


**PROFESSOR WILLIS**

10. **Advanced United States History.**

**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, not only to a mastery of the structure and mechanism of the language, and to a faithful rendering into idiomatic English, but also to an appreciation of Roman writings as exhibiting the genius of the age in which they were written, and to a proper estimate of Rome’s place and part in the realm of literature. Attention is given to the history of the people, the biographies of the great men, their manners and customs, home life, religion and worship.

Courses are as follows:

**Precollegiate**

(See description of courses in the Preparatory School).

**Collegiate**

The college courses are to be selected with the advice and approval of the head of the department. Necessary class-adjustments partly determine the order in which these courses are pursued.

5. Cicero’s De Senectute and De Amicitia.

6. Ovid—Selections from the Metamorphoses.

7. Livy—Book I., or selections from Books XXI. and XXII.
9. Terence and Plautus—Selected plays from each.
10. Tacitus—Agricola and Germania.
11. Catulus, Tibullus and Propertius—Selections.
13. Cicero—De Officiis or De Oratore.
14. Quintillian—Institutes, Book X.
15. Juvenal or Persius—Satires.
16. Lucretius—De Rerum Natura.
17. Cicero—De Natura Deorum or Tuscan Disputations.
18. Seneca’s tragedies, Hercules and Medea.
19. Advanced Prose Composition.

PROFESSOR MAGLOTT

20. Grecian and Roman Mythology.

Mathematics and Astronomy

The courses in mathematics are designed to meet the needs of students desiring to teach mathematics in high schools or colleges; to do graduate work in the best universities; to pursue engineering or other technical courses.

1-3. Preparatory Algebra. (See description of courses in Preparatory School).

4-6. Geometry. (See description of courses in Preparatory School).

7. Algebra IV. 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. —MISS KILMER.

8. Algebra V. 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. —PROFESSOR FREDERICK MAGLOTT.

10. Trigonometry I. Plane. This course includes the 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.

—Professor Frederick Maglott.

11. Trigonometry II. This course is designed for those who expect to make mathematics their major study and for the students in engineering. It gives attention to the solution of trigonometric identities, the solution of trigonometric equations and the theory and solutions of spherical triangles.

—Professor Eva Maglott.

12. Analytical Geometry I. The properties of the straight line, the graph of an equation, the discussion of the circle and the parabola.

—Professor Eva Maglott.

13. Analytical Geometry II. The ellipse, the hyperbola, the general discussion of the conic and the higher plane curves and solid analytical geometry.

—Professor Eva Maglott.


—Professor Eva Maglott.

15. Calculus II. Curve tracing; infinite series; integration of easy forms. Elective in the Liberal Arts curricula.

Professor Eva Maglott.

16. Calculus III. Integral calculus. Indefinite integration, the application of integral calculus to the solution of practical problems. Elective in the Liberal Arts curricula.

—Professor Eva Maglott.

17. Astronomy. The work is based on Young's Manual of Astronomy. In addition to the study of the text, the student is required to name and locate the important constellations and stars seen in this latitude. As prerequisite to this study, the student should have a knowledge of the elementary principles of chemistry and physics. He is required to have a knowledge of mathematics including trigonometry.

—Professor Frederick Maglott.

18. Differential Equations. Ordinary and partial and differential equations. Open to all students who have passed in Calculus III.

—Professor Eva Maglott.
19. Theory of Probability and Method of Least Squares. This course consists partly of lectures and partly of recitations in which the fundamental principles that govern the method of adjustment of observations and numerous problems are solved, illustrating the process of adjustment, of computing the most probable values of the quantities, of determining the precision of computed results, and of the use of the empirical equations.

—Professor Eva Maglott.

Modern Languages

Professor Groth

1. German I. Pronunciation, elements of grammar, easy reading, practice in speaking and writing German.
2. German II. Continuation of course I.
3. German III. Drill on Grammar, memorizing of colloquial sentences, readings, translations and colloquial praxis.
4. German IV. Continuation of course III.
5. German V. Reading and translation of masterpieces of representative German authors, study of syntax, prose composition.
6. German VI. Study of German classics, prose composition, conversational praxis.
7. German VII. Continued study of classics, lectures on German Literature, conversational praxis.
8. German VIII. History of German Literature.
10. French II. Continuation of course I.
11. French III. Reading, grammar, oral exercises.
12. French IV. Continuation of course III.
13. French V. Reading and translation of French masterpieces, studies in syntax, conversational praxis.
15. French VII. Continuation of course VI.
17. Spanish II. Continuation of course I.
18. Spanish III. Reading and translation of modern prose, conversational praxis.
19. Spanish IV. Continuation of course III.
20. Spanish V. Reading and translation of Spanish classics, conversational praxis.
21. Spanish VI. Continuation of course V.
22. Spanish VII. Continuation of course VI.

Physics and Chemistry

Professors Beer and Berger

1-3 Preparatory Physics. (See description of courses in Preparatory School).


6. Physics VI. (University Physics—Magnetism and Electricity). Electrical charges, potential capacity, electrolysis, Ohm's Law. Electrodynamics, electromagnetism, electro-magnetic induction, electric oscillations. Lectures, class exercises and laboratory work. Text: Carhart's University Physics. Prerequisites: Same as in Physics IV.

7. Chemistry I. This is a course in the non-metallic elements and their inorganic compounds. The class work consists of lectures, recitations and demonstrations. In individual laboratory work, each student thoroughly investigates every subject.

8. Chemistry II. In this course the metallic elements, their compounds and chemical philosophy are theoretically and practically taught by lectures, recitations, demonstrations and much individual laboratory work by the student.

Professor Sleesman

9. Chemistry III. A thorough study of the carbon compounds, the structure of these compounds, and their constituents. Two days each week are spent in laboratory experimentation.
10. **Chemistry IV.** 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.

11. **Chemistry V.** The special chemistry course includes three terms of work after the completion of the regular pharmacy course. 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.

**Philosophy**

1. **Logic.** Elements from the text book. Practical training in detecting the more common fallacies and in illustrating the condition of proof and laws of evidence. —**Professor Park.**

2. **Psychology I.** This is an elementary course. The simpler mental processes receive most attention. There are lectures, experiments, recitations and written reports. —**Professor Dice.**

3. **Psychology II.** An advanced course. The work takes up especially the more complicated mental processes, the important theories in psychology and the relation of mind to body. Prerequisite: Psychology I. or an equivalent.—**Professor Dice.**

4. **History of Philosophy I.** This course covers the history of European philosophy from the time of the Ionian Greeks to the time of the Middle Ages. —**Professor Dice.**

5. **History of Philosophy II.** The history of European philosophy of the Mediaeval and Modern periods. A study of the course of modern thought from Descartes to Hegel is the principal part of the work. —**Professor Dice.**

6. **Theory of Knowledge.** Pragmatic, Realistic, and Idealist theories of cognition are considered with an attempt to give the outlines of a constructive theory. Prerequisites: Logic, Psychology I., History of Philosophy I. —**Professor Dice.**

7. **Metaphysics.** A study of the nature of reality, of the nature of the self, of the problem of evil, of the problem of immortality and of theism. Prerequisites: Logic, Psychology I., Theory of Knowledge. —**Professor Dice.**
8. Ethics. 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 state. —Professor Dice.

9. Aesthetics. A study of the various theories of art and beauty, including an inquiry into the psychology of the artistic impulse, and aesthetic judgement. —Professor Dice.

10. Philosophy of Kant. This is a study of Kant's Critique of Pure Reason in translation. An attempt is made to see Kant's precise problem and his solution. Prerequisites: Logic, Psychology I., History of Philosophy I. and II. —Professor Dice.

Political and Social Sciences


2. Economics I. A general survey of the field of political economy —Professor Axlone.

3. Economics II. An intensive study of special phases of the subject. —Professor Axlone.

4. Advanced United States History.

5. Sociology I. A survey of the social phenomena aiming at a knowledge of the laws of cause and effect among social processes. —Professor Dice.

6. Sociology II. A continuation of Sociology I. including the study of modern efforts at social improvement. —Professor Dice.

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 inexpensive.
Tuition Fee
For one term (10 weeks), in advance $10.00
For two terms, in advance 19.00
For three terms, in advance 28.00
For four terms, in advance 37.00
For five terms, in advance 45.00

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.

Laboratory Fees
Fees to cover breakage and cost of chemicals and other materials used in the laboratories are charged each term as follows: Chemistry, $4.00; Physics, $2.00, Biology, Botany and Zoology, each, $1.00.

Graduation Fees
Beautiful and neatly executed diplomas are awarded to those who complete any regular course of study. In the English course the diploma fee is $3.00; in the Scientific, Philosophical and Classical courses, $5.00. Those preferring real parchment will be charged one dollar extra. Candidates for any degree are required to pay full tuition in graduation term.

Rooms and Boarding
Good board in private families, $1.65 to $2.50 a week.
Furnished room, two in a room, 50 cents to 75 cents each a week.
Light and fuel, 5 cents to 30 cents a week.
Laundry, 15 cents to 25 cents a week.
Self-boarding reduces these expenses somewhat.

Refunding
No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition will be refunded for the unexpired time. If in school longer than a half-term, he will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
NORMAL COLLEGE

FACULTY

ALBERT EDWIN SMITH, D. D., PH. D.,
President.

CHARLES CHESTER MCCracken, A. M.,
Dean

JOHN GAMBLE PARK, A. M.,
English Grammar, Analysis.

FREDERICK MAGLOTT, A. M.,
History, Geography, Astronomy.

FRANK BARTLETTE WILLIS, A. M., LL. B.,
Civics, Economics.
(Absent on leave.)

HENRY WHITWORTH, A. B.,
Latin.

GROVER C. KREGLOW, B. S., A. B.,
Biological Sciences, Geology.

CHILDE HAROLD FREEMAN, B. Sc.,
English and American Literature.

Jesse Beer, B. Sc.,
Chemistry and Physics.

Iona May Kilmer, B. Bed.,
Arithmetic, Algebra, Geometry.

Charles Sankey Wengerd,
Voice Training.

Shilo Shaffer Myers,
Public School Music.
(Summer Term.)

Guy Roland Taylor, M. C. S.,
Bookkeeping.
OHIO NORTHERN UNIVERSITY

MARY HELEN LEY, B. F. A.,
Drawing.

EMMET ELLIjah LONG, B. C. S.,
Penmanship.

ESTELLE FINNEY,
Critic Teacher.
(Summer Term.)

ELLEN G. McGrath,
Methods in the Grades, Critic Teacher.
(Summer Term.)

KATHERINE M. McCARTY,
Supervisor and Critic Teacher.
(Summer Term.)

Professional Training

The fact that teaching is rapidly becoming a recognized profession demands that those so engaged shall properly prepare themselves for this great work. No longer is the old statement that “anyone can teach” acknowledged as true. Some may not yet have realized the fact, but they must soon do so, or find themselves far in the rear of the onward march of progress. Society is placing more and more rigid conditions which the school must satisfy. These are not local, but nation-wide. Consequently, the most ordinary teacher, or the most gifted, must not disregard the demand for proper preparation.

Realizing these conditions, Ohio Northern University has thoroughly reorganized the Normal School under the new Dean. The old traditions of the school have been retained in so far as they do not conflict with modern trends in teaching. The provisions required by the state have been met and this Normal School is on the approved list of the State School Commissioner, thus making graduates eligible to certification under the Hawkins law. Other features, not required by law or by the traditions of the institution, are being introduced that the field may be more completely covered. The experience and training of the Dean have been so extensive and thorough that he is able to appreciate the needs of teachers of all classes.
The school stands for the best professional spirit. Teachers from all sections of the country mingle, exchange ideas, and gain inspiration outside, as well as inside, of the classroom. The courses tend to broaden the man or woman so that the horizon of his field of labor is extended. Thus all tendencies are to advance teachers, whether experienced or inexperienced, to a higher plane of professional ability.

Function of the Normal College

The pre-eminent function of a Normal School is to fit prospective teachers for their specific work. This department of the University aims—

1. To furnish a thorough, practical, fundamental knowledge of the branches studied, whether for common, graded or high schools.
2. To beget correct habits of investigation.
3. To aid in forming clear and practical conceptions of the dignity and importance of the teacher's work.
4. To give an insight into the science and history of education and to establish the connection with modern theories of education and schemes of instruction.
5. To present in theory, and by example, rational methods of teaching the branches.
6. To help to an understanding of child life in its various conditions.
7. To create a high professional standard among teachers.

The Normal College of the Ohio Northern University professes to give abundant opportunity to teachers, experienced or inexperienced, for broadening their attainments and extending their professional outlook. All the privileges and advantages attaching to a large school are proffered to those enrolled in the Normal College. To share in the prevailing enthusiasm alone will send the teacher back to his work keen, fresh, and determined to win.

Entrance Requirements

The "Hawkins" law prescribes as entrance requirements to the two-year and four-year curricula specified therein "graduation from a high school of the first grade or its equivalent which shall be determined in such manner as the State Commissioner of Common Schools may direct."
Applicants, therefore, are required to present (1) a diploma from a first grade high school or (2) fifteen entrance units as described hereafter.

A unit of admission-credit means the work done in a good high school in five recitation periods a week for thirty-six weeks (120 clock hours), two laboratory periods being reckoned as the equivalent of one recitation period.

Applicants presenting a diploma from a first-class high school, if deficient in any of the prescribed subjects, must make them up prior to graduation.

For the accommodation of students desiring to take preparatory work at Ada, instruction is given in preparatory subjects as follows:

PREPARATORY TO BOTH CURRICULA—PRESCRIBED (12 UNITS.)

- **English** (3 units)—Orthography, English Composition, Rhetoric I., Rhetoric II., English Literature I., English Literature II., American Literature, English Literature III.
- **Science** (2½ units)—Physics I., Physics II., Physics III., Botany I., Physical Geography, Physiology I., Physiology II.
- **History** (2 units)—U. S. History I., U. S. History II., General History I., General History II., Civil Government.
- **Foreign Languages** (2 units)—Latin, Greek, German or French.
- **Art** (½ unit)—Rudiments of Music.

ELECTIVE (3 UNITS)

In addition to the studies prescribed above, nine credits from the following subjects must be presented by the applicant:

- **Mathematics**—Plane Trigonometry I.
- **History**—Roman History, Grecian History, English History, Commercial Geography.
- **Latin**—Cicero I. and prose composition, Cicero II. and prose composition, Cicero III., Virgil I., Virgil II., Virgil III.
- **Greek**—Greek I., Greek II., Greek III., Auabasis I., Auabasis II., Auabasis III.
- **German**—German I., German II., German III., German IV., German V., German VI.
- **French**—French I., French II., French III., French IV., French V., French VI.
- **Spanish**—Spanish I., Spanish II., Spanish III., Spanish IV., Spanish V., Spanish VI.
The "Hawkins" Law

The Teachers' Courses herein set forth will enable those having completed them to take advantage of the provisions of the "Hawkins" law, the Normal College of the Ohio Northern University being on the "approved" list of the State School Commissioner.

"Two-year" Curriculum

Students completing this curriculum are certified as Graduates in Pedagogy.

English (20 credit hours) College Rhetoric I., College Rhetoric II., Advanced Literature, (course 13, catalog). Poetics (course 14, catalog).

Science (20 credit hours)—General Zoology, Botany III., Principles of Agriculture, Chemistry I., Chemistry II. or Zoology.

Art (5 credit hours)—Freehand Drawing.

Electives (10 hours credit)—Two terms of College Algebra, or two additional terms of Chemistry, or two terms of Political Economy, or two additional terms of English, or two terms of College American History.

Professional (55 credit hours)—Administration of Public Education in the United States (Dutton and Sneddon), Methods I., (C. A. McMurry's Elements of General Method), Methods II., (McMurry's Series of Special Methods), History of Education I., (Monroe), History of Education II., (Monroe), Paidology (Kirkpatrick's The Individual in the Making), Classroom Management (Bagley), School Hygiene (Hoag's Health Index of Children), Principles of Education, Ethics, General Psychology.

Observation Work—Two terms.

Practice Work under Critic Teacher—Two terms.

"Four-year" Curriculum

This curriculum leads to the degree of Bachelor of Pedagogy.

Prescribed

English (20 credit hours)—Same as in the two-year curriculum.

Science (20 credit hours)—Same as in the two-year curriculum.

Art (5 credit hours)—Same as in the two-year curriculum.

Educational (55 credit hours)—Same as in the two-year curriculum.

Observation Work (2 credit hours)—Same as in the two-year curriculum.

Practice Work (2 credit hours)—Same as in the two-year curriculum.

Electives

In addition to the courses prescribed above, 120 credit hours (24 courses) of work in the elective courses named below are required for the degree of B. Ped.

The arrangement here given is merely suggestive, to aid the student in selecting his electives.
For those planning to teach history and English:

For those planning to teach mathematics and science:

For those planning to teach foreign languages:
Two additional courses in English; College Latin 1, 2, 3, 4, 5; Greek five terms, preparatory or college; German, six terms, preparatory or college; French, six terms, preparatory or college; provided preparatory Greek, German or French have not already been accepted on the applicant’s entrance credits.

For those desiring a general culture curriculum, 24 courses from the following groups may be selected. Each group when begun must be completed, and groups A and D are prerequisite to group E:
A—College Algebra I., College Algebra II., Trigonometry I.
B—Political Economy I., Political Economy II.
C—Zoology I., Zoology II., Zoology III.
D—Chemistry I., Chemistry II., Botany II.
E—Geology I., Geology II., Astronomy.
F—Shakespeare I., Shakespeare II., Shakespeare III.
G—Literary Criticism, Poetics, Prose Fiction, Nineteenth Century Literature.
H—Logic, Aesthetics, Philosophy I., Philosophy II.
J—Five terms of College Latin, or five terms of Greek, German or French.

Educational Library

An Educational Library has been formed for the use of teachers only. This library contains many volumes setting forth the best and most modern ideas bearing on the art and profession of teaching. In connection with this there is also available an exhibit of common school text-books, valuable for comparing the old with the new, and showing the evolution of school-book writing and making.
Common School Course

This course is offered to students moderately well acquainted with the simple branches of the common school, but not sufficiently advanced to enter immediately upon higher courses. The instruction is in charge of experienced and skillful teachers, and pains is taken to have the student lay in these branches a careful foundation for future work in the various academic and collegiate courses.

A certificate is issued to those having completed the work here, the fee for which is one dollar.

**Mathematics.** Practical Arithmetic, Mental Arithmetic, each five hours a week.

**English.** Reading, Spelling, Composition, Orthography, Grammar, Sentence Analysis, English and American Literature, each five hours a week.

**Science.** Elementary Physiology, five hours a week.

**History.** United States History, Civics, Descriptive Geography, each five hours a week.

**Art.** Penmanship five hours a week.

The same work arranged according to terms is as follows:

**FIRST TERM**
- Practical Arithmetic, Grammar, Reading, Spelling, Penmanship.

**SECOND TERM**
- Mental Arithmetic, Orthography, Descriptive Geography, Analysis.

**THIRD TERM**
- English Composition, Physiology I., American History I., Civil Government.

**FOURTH TERM**
- American History II., English Literature I., American Literature
- Physiology II.

SUMMER SCHOOL

The attention of teachers is called to the advantages offered in the Summer Term of nine weeks, which begins June 10, 1913. This term will have at least one hundred and twenty-five class exercises a day, five days each week. The class periods are sixty minutes in length. A bulletin giving more specific information will be issued about January 1, 1913.

Besides regular classes in psychology, pedagogy, elementary education and the like, there will be a class in training open to all teachers. The chief discussion will center around the methods employed among teachers, with a view to selecting and em-
phasizing the best. No pet theories are to be memorized and parrot recitations made, but the best thought of each member of the class will be elicited. The practical will be in the foreground.

The work in primary methods includes instruction in the "new education"; the Ward and other special methods in reading, nature study, numbers, language, geography and physical training.

Methods of teaching in each grade of the elementary school are studied, including the course of study, discipline, class instruction, preparation for the Patterson examination and other problems peculiar to the grades. In these classes a special study of various problems of child life is made, such as normal and abnormal, defective and diseased children, adolescence and methods of medical inspection.

A course in Agriculture is offered to meet the needs of those who teach this subject in high schools, and valuable to anyone at all interested in up-to-date farm work or management.

The Superintendents and High School Teachers' Club and the Elementary Teachers' Club, with their round table meetings and conferences, are kept in organization and continue to be the source of much inspiration and help to their members.

The Summer Term affords an excellent opportunity for review work, and anyone desiring to take up new or advanced studies will find classes to suit, since all the departments of the University will be in regular session.

Special advantages are offered to persons preparing to teach the Natural Sciences in public high schools. The departments of Physics, Chemistry and Natural Science have adequate laboratory equipments and courses are offered especially adapted to the needs of prospective science teachers.

Numerous calls come for qualified teachers of Latin and German. The University offers excellent facilities for the pursuit of these studies. The head of the Latin department has had an experience of twenty-four years as a public school man, and knows the requirements of public school work. The teacher of German brings to the classroom large experience in teaching his mother tongue.

The Summer School Lecture Course is one of the popular features of the term. This course is worth the entire expense of the term.
EMPLOYMENT BUREAU

This department was established to aid our students to secure good paying positions. It becomes more popular each succeeding year. Through this agency we assisted a large number last year, but we could not nearly supply the demand for teachers. We want One Thousand applicants to enroll in this department this year. We will have calls for Superintendents, High School Principals and Teachers. Grade Teachers, Primary Teachers, and Teachers of special branches. Our books are now open. Let us register you; it may result in a better position and a higher salary. No charge whatever is made. Address Charles C. McCracken, Dean Normal College.

DESCRIPTION OF COURSES

Academic

For Academic and Collegiate subjects, see descriptions of courses in the Preparatory School and the College of Liberal Arts.

Professional

Administration. A study of contemporary school problems with especial attention to administrative features of public schools; a study of Ohio School Law and decisions of State Commissioner and Attorney General; of especial interest to High School Teachers, Principals and Superintendents.

—Professor McCracken.

Methods I. A study of the elements of the general methods of teaching. This includes a study of induction, apperception, interest and will, as applied in teaching.

—Professor McCracken.

Methods II. A study of special methods of teaching the various elementary school subjects, primary, intermediate and grammar. Class reports, lectures, round-table discussions.

—Professor McCracken.

History of Education I. A study of education from the early ages till the Reformation. The aim is to secure a basic knowledge of early forms of education as a means for grasping modern tendencies. Themes, discussions, outside reading.

—Professor McCracken.
History of Education II.—Beginning with the Reformation period, develop modern tendencies and connect with present trend of education. Careful attention to most prominent educational reformers: Pestalozzi, Herbart, Froebel, Comenius, etc. Outside reading, themes, discussions. —PROFESSOR McCracken.

Pedology: A course in child psychology. The different periods of child life are studied in relation to schoolroom practices. Outside reading, class discussion. —PROFESSOR McCracken.

Class Management: Routine factors in classroom management; judgement factors; technique of instruction and discipline. Class discussions. —PROFESSOR McCracken.

School Hygiene: The hygienic conditions necessary for best development of the child; home environment and its effects; study of modern buildings, heating, lighting, ventilating, etc. Questionnaires, discussions. —PROFESSOR McCracken.

Principles of Education: The basic principles of education and their concrete application through numerous and varied exercises. Round-table discussions. Prerequisite: Psychology I. —PROFESSOR McCracken.

EXPENSES

Matriculation

No matriculation or entrance fee is required to enter the Normal College. Some schools advertise free tuition, but usually entrance fees with them amount to more than tuition fees here, a fact not to be overlooked by those selecting a school thorough, yet inexpensive.

Tuition Fees
For one term (10 weeks) strictly in advance.................$10 00
For two terms in advance....................................19 00
For three terms in advance..................................28 00
For four terms in advance....................................37 00
For five terms in advance....................................45 00
For less than a term, per week..............................1 25
All students paying the regular tuition-fee are admitted to the general class in Rudiments of Music without extra charge. Tuition must be paid by Friday night of the first week, otherwise an additional dollar will be charged.

**Graduation Fee**

Beautiful and neatly executed diplomas are awarded to those who complete any regular course of study. In the Teachers' Courses the diploma fee is $3. Those preferring real parchment are charged one dollar extra. Candidates for any degree are required to pay full tuition in graduation term.

**Room and Board**

Good board in private families costs $1.65 to $2.50.
Furnished rooms, two in a room, 50 cents to 75 cents a week.
Light and fuel 5 cents to 30 cents a week.
Laundry, 15 cents to 25 cents a week.
Self-boarding reduces these expenses somewhat.

**Refunding**

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition is refunded for the unexpired time. If in school longer than a half-term he will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
Text-Book List

In response to an extensive demand, as shown in the correspondence coming to the office, here follows a list of text-books used in the Preparatory School, Normal College and College of Liberal Arts. These text-books are subject to change at any time.

Administration, School .......... Dutton and Sneden

Aesthetics ..............................

Algebra, new School .......... Wentworth

Algebra, Advanced Course .......... Wells

Anatomy of Religion .......... Butler

Analysis of Sentences .......... Park

Archaeology ..............................

Argumentation ............... Foster

Arithmetic, Commercial ..........

.... Moore and Miner

Arithmetic, Practical .......... Ray

Arithmetic, Mental .......... Ray

Arithmetic, Advanced ..........

Astronomy, Manual of .......... Young

Biology, General .......... Hertwig-Kingsley

Bookkeeping .......... Twentieth Century

Botany .......... Bergen and Davis

Botany, Manual .......... Bergen and Davis

Caesar .............................. Walker

Caesar's First Campaign .......... Jenner and Wilson

Calculus .......... Granville

Chemistry I. and II .......... Smith

Chemistry, Manual .......... Beer

Chemistry III .......... Bartley

Chemistry IV .......... Mutter

Cicero, Orations .......... Allen and G

Civil Government .......... Andrews

Classroom Management .......... Bagley

Composition, English .......... Hitchcock

Ethics .......... Dewey and Tufts

Evidences of Christianity .......... Fisher

French Course .......... Chardenal

Geography, Ancient .......... Mitchell

Geography, Commercial .......... Adams

Geography, Descriptive .......... Maglott

Geography, Land of Israel .......... Stewart

Geography, Physical .......... Salisbury

Geology, College ........ Chamberlin and Salisbury

Geometry, Plane and Solid .......... Wentworth

Geometry, Analytical .......... Smith and Gale

German, Introductory .......... Keyser and Montessori

Grammar, English .......... Park

Grammar, French .......... White

Grammar, German .......... Tyner-Meiser

Grammar, Greek .......... Goodwin

Grammar, Latin .......... Bennett

Greek, First G Book .......... White

Hebrew, Elements .......... Harper

Hermeneutics .......... Terry

History, American .......... Hart

History, Ancient Civilization .......... Verschoyle

History, Christianity (Classical) .......... Sohm

History, Christianity (Biblical) .......... Hurst

History, Civilization .......... Guisot

History, Commerce .......... Day

History, Education .......... Monroe

History, England .......... Monroe

History, England (Constitutional) .......... Dale

History, General .......... Myers

History, Greece .......... Myers

History, Middle Ages .......... Myers

History, Modern Age .......... Myers

History, New Testament .......... Maclean

History, Old Testament .......... Maclean

History, Philosophy I .......... Cushman

History, Philosophy II .......... Cushman

History, Rome .......... Myers

Homiletics ..........

Law, Commercial .......... Hill

Law, International ..........

Law, Parliamentary .......... Roberts

Literary Criticism .......... Winchester

Literature, Advanced .......... Brooks
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OHIO NORTHERN UNIVERSITY

COLLEGE OF ENGINEERING

FACULTY

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

Thomas Jefferson Smull, C. E., Arch.,
Dean.
Civil and Architectural Engineering.

Dressel DeWitt Ewing, M. E., E. E.,
Electrical and Mechanical Engineering.

Grant Roebun Haight, C. E.,
Mining and Municipal Engineering.

Mrs. Eva Maglott, A. M., C. E.,
Mathematics.

Jesse Beer, B. Sc.,
Physics and Chemistry.

Iona May Kilmer, B. Ped.,
Geometry.

Frederick Maglott, A. M.,
Trigonometry and Astronomy.

Mary Helen Ley, B. F. A.,
Freehand and Perspective Drawing.

Samuel Preston Axline, LL. D.,
Contracts.

Frank Bartlette Willis, A. M., LL. B.,
Algebra and Economics.

William Groth, A. B.,
Spanish, French, German.

Grover C. Kreglow, B. S., A. B.,
Geology and Mineralogy.

Lenix Craig Sleesman, Ph. G., Ph. C.,
Metallurgy.

Childe Harold Freeman, B. Sc.,
English.

Frank Lewis Berger, A. B.,
Chemistry and Physics.

Pierre Herber, C. E.,
Assistant in Mathematics.

Alfa Holmes,
Registrar.
Aim

The aim of the founders of the Engineering Department of the Ohio Northern University was to provide a school where an education in engineering could be obtained with the least possible expenditure of time and money. They found that about one-half the time allotted to the Engineering Courses in other technical schools was devoted to the study of subjects having no direct bearing on Engineering and that by omitting these subjects, the time could be shortened to about two and one-half years. The success of the experiment in the course of training thus offered is seen in the fact that a very large per cent, of the graduates are engaged in occupations connected with Engineering. In thus reducing the length of the courses, censure has been provoked on the claim that a thorough knowledge of Engineering is to be obtained only by pursuing a lengthy college course. It is sufficient reply to state that by omitting such subjects as have no direct bearing on Engineering, an Engineering Degree has been placed within the reach of thousands of worthy young men whose time and means will not permit them to spend the long period of four years in preparation for a profession.

The aim of the department is to lay a foundation of sound theory and at the same time to impart such a knowledge of the usual professional practice as shall make its students useful in any position to which they may be called. The technical branches are taught and directed by teachers of professional experience as well as of full scientific training.

The benefit of classical and literary culture can not be overestimated, and to accommodate those desiring this culture in addition to the thorough technical training, the College of Liberal Arts with its excellent curricula and many advantages is open to all Engineering students free of extra tuition.

Admission

Students having a knowledge of the prerequisites for entrance into the respective courses herein set forth will be permitted to register as candidates for the corresponding Engineering Degrees. The prerequisites are mentioned in "Description of Courses." 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.
Time to Enter

The large number of classes formed each term makes it possible for one to enter at almost any time in the year and find the work he desires. The best time to enter, however, is at the beginning of the term. See Calendar.

In view of the fact that every branch of study in the College of Engineering is presented from two to five times a year, students are given what they want, when they want it.

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 profession. These are termed options and are mentioned in the schedules of the courses.

CIVIL ENGINEERING


The teaching is done through class room exercises, field work, practical drawing and designing. Much time is devoted to the study of steel construction, during which the student is made familiar with the computation of stresses, designing, detailing and drawing of roofs, bridges and steel structures of all kinds. Those wishing to do so may elect advanced work in Hydraulics and Sewerage, to supplant a portion of the structural work of this course. The subject of roads and pavements, railroad construction and maintenance and masonry structures are exhaustively treated. Special attention is given to Land, Typographical Stadia and City Surveying and Leveling. The aim is to fit men to act as county and city engineers, surveyors, railroad engineers, bridge engineers, structural engineers, hydraulic engineers, and government geodetic engineers. Besides the undergraduate work, special and more elaborate study is arranged for those wishing to prepare for particular positions.

The College is well equipped with high-grade Transits, Levels, Solar Compasses, Prismatic Compasses, Hand Levels, Aneroid Barometers, Stadia Outfits, Sight Poles, Level Rods, Chains, Tapes, Axes, Pins, Railroad Curves, Planimeters, Protractors Stereotomy and Descriptive Geometry Models, a collection of
Photographs and Shop Drawings of Bridges and Buildings, a large modern Draughting Room, equipped with individual lockers, a complete Blue Printing Outfit and filing cases by which the student is familiarized with modern office methods, Projectoscope and numerous Engineering Slides and an excellent Scientific Library. This equipment is constantly enlarging through purchase and donation and by construction of students of the College.

**Course of Study**

**First Term:** Algebra III., Freehand Drawing, Trigonometry I., Lettering.

**Second Term:** Algebra IV., Mechanical Drawing, Trigonometry II., Analytical Geometry I.

**Third Term:** Algebra V., Projections, Analytical Geometry II., Calculus I.

**Fourth Term:** Calculus II., Descriptive Geometry I., Analytical Mechanics, Chemistry I.

**Fifth Term:** Calculus III., Descriptive Geometry II., Physics IV., Chemistry II.

**Sixth Term:** Mechanics of Materials I., Geology, Physics V., Plane Surveying.

**Seventh Term:** Mechanics of Materials II., Masonry, Physics VI., Field Engineering.

**Eighth Term:** Stresses I., Graphics I., Stereotomy, Rail Road Engineering I.

**Ninth Term:** Stresses II., Graphics II., Astronomy, Rail Road Engineering II.

**Tenth Term:** Bridge Design I., Field Astronomy (2½), Higher Structures, Sewerage (2½), Highway Engineering (2½), Seminar (1).

**Eleventh Term:** Bridge Design II., Hydraulics I., Least Squares, Electric Railways (2½), Estimates and Contracts (2½), Seminar (1).

**Twelfth Term:** Building Construction, Hydraulics II., Geodesy, Seminar Thesis.

Note—230 credit hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis. Two hours field work constitutes one credit hour. Maximum number of hours per week—20. Minimum number of hours per week—15.

**Options.**

Reinforced Concrete, 2½; Machine Design, 5; Metallurgy, 2½; Mineralogy, 5; Electrical Measurements, 5; Mine Surveying, 2½; Irrigation, 2½.

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**ELECTRICAL ENGINEERING**

The courses offered in this Branch of Engineering require a thorough study of theoretical and applied electricity. The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering courses, 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 thoroughly supplemented with prac-
tical application in the laboratory and in the design of electrical
machinery. Throughout the course the student is drilled in the
solution of many numerical problems with a view to a firm grasp
of the theory.

In addition to a first-class Physical Laboratory, the depart-
ment has a well equipped Electrical Laboratory. A gas-engine-
driven electric lighting plant has been installed for lighting the
University buildings and grounds. Both this plant and the plant
of the Ada Water, Heat & Light Company are available for in-
spection and tests by the students. In the laboratory both direct
and alternating currents are available for testing purposes. As
part of the equipment may be mentioned the following: A Gen-
eral Electric three phase generator arranged with two sets of
windings so as to supply either three phase alternating current
or direct current; a control board equipped with suitable switches
and circuit breakers, meters, etc., a feeder board for supplying
either three phase or single phase current to the testing leads;
several transformers representing the types of transformers man-
ufactured by almost all the well known electrical manufacturing
companies; a Westinghouse induction motor so arranged as to
be operated either single phase or polyphase, a Wagner induc-
tion motor, an Emerson induction motor, a Westinghouse D. C.
generator; a two panel switch board equipped with meters,
switches, circuit breakers, etc., for controlling D. C. generator;
ballistic galvanometers, static galvanometers, Wheatstone
bridges, X-Ray apparatus, frequency meter, speed indicators,
prony brakes, rheostats, and about thirty-five voltmeters, amm-
eters representing nearly all the best known makes of instruments.
In addition to the above the department is supplied with a num-
ber of small motors, generators, testing keys, arc lamps, Nernst
lamps, lamp banks and auxiliary apparatus such as are to be
found in any well equipped laboratory. All the service meters
of the local lighting company are repaired and calibrated in the
University Electrical Laboratory, thus giving the student unex-
celled opportunities for studying meter design and operation.
Course of Study

First Term: Algebra III., Freehand Drawing, Trigonometry I., Lettering.
Second Term: Algebra IV., Mechanical Drawing, Trigonometry II., Analytical Geometry I.
Third Term: Algebra V., Projections, Analytical Geometry II., Calculus I.
Fourth Term: Descriptive Geometry, Plane Surveying, Calculus II., Chemistry I.
Fifth Term: Calculus III., Physics IV., Machine Drawing, Chemistry II.
Sixth Term: Mechanics of Materials I., Analytical Mechanics, Machine Design I., Physics VI.
Eighth Term: Electric Machinery II., Electric Machinery III., Masonry, Physics V.
Ninth Term: Electric Machinery IV., Electric Machinery V., Thermodynamics, Illuminating Engineering.
Tenth Term: Electric Machinery VI., Stresses I., Graphics I., Electrical Transmission, Seminary (1).
Eleventh Term: Electric Machinery VII., Electric Machinery VIII., Hydraulics I., Electric Railways (2½), Estimates and Contracts (2½), Seminary (1).
Twelfth Term: Electric Machinery IX., Theory of Alternating Currents (7½), Hydraulics II., Seminary (1), Thesis.

Note—230 credit hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis. Two hours' laboratory work constitutes one credit hour. Maximum number of hours per week—20. Minimum number of hours per week—15.

Options.

Descriptive Geometry, 5; Stresses II., 5; Structural Design, 5; Electric Meters, 5; Storage Batteries, 5; Telephone Engineering, 5; Metallurgy, 2½; Railroad Engineering, 5; Gas Engines, 5; Station Practice, 5.

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery. The courses offered are designed to equip the student with the theoretical and practical training that will enable him to cope with the intricate and complicated problems arising in this phase of Engineering. The first half of the course consists of the usual basic Engineering studies. In the latter half the special Mechanical Engineering studies are taken up. Thorough training is given in Machine Drafting, Machine Designs, Thermodynamics, Steam Engines, Steam Boilers, Gas Engines, Electrical Machinery and Steam Power Plants.
Within recent years the University has installed a gas engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. This equipment has been 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, etc., is open to the students for inspection and test.

Course of Study

First Term: Algebra III., Freehand Drawing, Trigonometry I., Lettering.
Second Term: Algebra IV., Mechanical Drawing, Trigonometry II., Analytical Geometry I.
Third Term: Algebra V., Projections, Analytical Geometry II., Calculus I.
Fourth Term: Calculus II., Descriptive Geometry I., Plane Surveying, Chemistry I.
Fifth Term: Calculus III., Physics IV., Descriptive Geometry II., Chemistry II.
Ninth Term: Stresses I., Graphics I., Steam Engine Design, Mechanical Laboratory I.
Tenth Term: Stresses II., Mechanical Laboratory II., Electrical Machinery I., Hydraulics I., Seminar I.
Eleventh Term: Hydraulics II., Electric Machinery III., Structural Design, Scientific Management, Seminar II.
Twelfth Term: Steam Turbines, Gas Engines, Estimates and Contracts (2½), Steam Power Plants, Seminar I. Thesis. Note—250 hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis. Two hours' laboratory work constitutes one credit hour. Maximum number of hours per week—20. Minimum number of hours per week—15.

Options.

Electric Mach., IV., 2½; Bridge Design, 5; Railroad Engineering, 5; Reinforced Concrete, 2½; Heating and Ventilating, 5; Gas Engine Design, 5; Steam Piping System, 5; Producer Gas and Gas Producer, 5.

MUNICIPAL AND SANITARY ENGINEERING

This branch of Engineering is most nearly related to the parent stem, Civil 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. The increasing demand for this grade of Engineers has made it one of the leading courses in all scientific schools.

To those pursuing this course, the city improvements now in progress in Ada afford an opportunity to make practical observation and to assist in establishing street and sidewalk grades, cross-sectioning and computing earth work, laying out street and alley intersections, installing sewers and accessories, inspecting, drawing up specifications, advertisements and proposals and letting out contracts.

Course of Study

The first five terms are the same as in Civil Engineering.

**Sixth Term:** Mechanics of Materials I., Geology, Physics V., Chemistry III.

**Seventh Term:** Mechanics of Materials II., Masonry (2½), Physics VI., Foundations (2½), Water Analysis (1).

**Eighth Term:** Stressés I., Graphics I., Stereotomy, Plane Surveying.

**Ninth Term:** Stressés II., Graphics II., Astronomy, Municipal Engineering.

**Tenth Term:** Field Astronomy, Sewer Design (2½), Roads and Pavements (2½), Structural Design, Railroad Engineering I.

**Eleventh Term:** Hydraulics I., Sewerage Disposal (2½), Water Supply and Irrigation, Estimates and Contracts (2½), Topographical Surveying (2½), Mapping (2½).


Note—Three hours’ field work is equivalent to one credit hour. 230 credit hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis.

MINING ENGINEERING

This course includes most of the Civil Engineering subjects and an extended study of Historical, Dynamical and Economical Geology, Mineralogy, Metallurgy, Hydraulics, and the Assaying of Gold, Iron, Silver and Copper.
Course of Study

The first six terms are the same as in Civil Engineering.


Eighth Term: Stresses I, Graphics I, Masonry, Mining Law (2 1/2), Mineral Land Surveying (2 1/2).


Eleventh Term: Hydraulics II, Mineralogy, Metallurgy, Electric Machinery I.


Note—Three hours’ field work is equivalent to one credit hour. 230 credit hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis.

ARCHITECTURE

The object of this course is to unite a thorough knowledge of the mechanics of materials and engineering construction with a special training in Architectural Design and Decorative Art. Instruction is given in the basic engineering sciences, most of the general civil engineering subjects, and an exhaustive course is marked out in Architectural History, Ornamentation, Decorating, Architectural Designing, Heating, Ventilating, Plumbing, Estimates, Fireproofing and Superintendence.

Course of Study

The first three terms are the same as in Civil Engineering.

Fourth Term: Calculus II., Chemistry I., Perspective, Analytical Mechanics.

Fifth Term: Calculus III., Physics IV., Descriptive Geometry I., Chemistry II.

Sixth Term: Mechanics of Materials I., Physics V., Descriptive Geometry II., Geology I.


Eighth Term: Stresses I., Graphics I., History of Architecture, Masonry (2 1/2), Foundations (2 1/2).

Ninth Term: Stresses II., Graphics II., Stereotomy, Curves and Earthwork (2 1/2), Estimates and Contracts (2 1/2).


Eleventh Term: Architectural Drawing II., Hydraulics I., Landscape Design.


Note—Three hours’ field work is equivalent to one credit hour. 230 credit hours are required for graduation. Each of the subjects scheduled above is valued at five credit hours, unless otherwise specified by the figures in parenthesis.
Schedule of Classes

For the convenience of students desiring to attend the University during certain terms only, or to specialize along certain lines, the following condensed form of the schedule of the different subjects taught during the school year is presented.

Many special classes are formed in connection with these.

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Mathematics

1. Algebra III.: 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. Text: Wentworth. Prerequisite: Alg. I, and II.

2. Algebra IV.: 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. Text: Wentworth. Prerequisite: Alg. III.
3. Algebra V.: An exposition of the theory of logarithms; permutation combinations, choice and chance; determinants; theory of equations. Text: Wentworth. Prerequisite: Alg. IV.

4. Trigonometry I.: Plane. This course includes the 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. Text: Murray. Prerequisite: Alg. II. or High School equivalent.

5. Trigonometry II.: Gives attention to the solution of trigonometric identities, the solution of trigonometric equations and the theory and solution of spherical triangles. Text: Murray. Prerequisite: Trig. I.

6. Analytical Geometry I.: The properties of the straight line, the circle, and the parabola. Text: Gale and Smith. Prerequisite: Trig. I.

7. Analytical Geometry II.: The ellipse, the hyperbola, the discussion of the higher plane curves and solid analytical geometry. Text: Gale and Smith. Prerequisite: Anal. I.


9. Calculus II.: Infinite Series. Curvature of curves; evolutes and involutes; curve tracing; infinite series; integration. Text: Granville. Prerequisite: Calculus I.


11. Differential Equations: Solution of problems of the first and second degree. Text: Johnson. Prerequisite: Calculus III.

12. Analytical Mechanics: In order to prepare for the more technical studies of Mechanics of Machinery and Applied Mechanics, a course in the principles of Mechanics is given. The text-book is supplemented with original problems so as to get the student into the habit of analyzing these problems and using his own methods of solution. Text: Maglott. Prerequisites: Calc. I.

**Physics and Chemistry**


6. Physics VI.: (University Physics—Magnetism and Electricity): Electrical charges, potential capacity, electrolysis, Ohm’s law, electrodynamics electromagnetism, electro-magnetic induction, electric oscillations, lectures and class exercises. Text: Carhart’s University Physics. Prerequisites: The same as in Physics IV.

7. Chemistry I.: This is a course in the non-metallic elements and their inorganic compounds. The class work consists of lectures, recitations and demonstrations. In individual laboratory work, each student thoroughly investigates every subject. Text: Smith. Prerequisite: Physics I., II., III. Algebra I.

8. Chemistry II.: In this course the metallic elements, their compound and chemical philosophy are theoretically and practically taught by lectures, recitations, demonstrations and much individual laboratory work by the student. Text: Smith. Prerequisite: Chemistry I.

**Drawing**

1. Freehand Drawing: Sketching and pencil work.

2. Lettering: Freehand engineering lettering.

4. **Projections**: Orthographic projections, intersections, shadows, elementary linear perspective. Text: Tracy's Mechanical Drawing. Prerequisite: Mechanical Drawing.

5. **Perspective**: Angular, parallel, vertical, curvilinear and perspective shades and shadows. Text: Ware's Modern Perspective. Prerequisite: Projections.

6. **Descriptive Geometry I**: Advanced orthographic projection planes, single and double curved surfaces. Text: Church's Descriptive Geometry. Prerequisite: Projections.

7. **Descriptive Geometry II**: Spherical projections, maps, shadows, perspectives. Text: Church's Descriptive Geometry. Prerequisite: Descriptive Geometry I.


### Civil Engineering


2. **Field Engineering**: Land, topographical, stadia and city surveying. Drawing room—plating, blue printing and tinting. Text: Professor's Notes. Prerequisite: Plane Surveying.


4. **Railroad Engineering II**: Location, maintenance, and economics. Text: Professor's notes and Talbot's Transition Curves. Prerequisite: Railroad I.


6. **Structural Geology**: A study of the earth's crust, dealing with rock form and structure, and the formation of mineral deposits and mountains. Text: LeConte. Prerequisites: Physical Geography, Chemistry and Physics.

7. **Sewerage**: Disposal and design. Text: Folwell's Sewerage. Prerequisites: Chemistry and Surveying.


10. **Hydraulics II**: Hydraulic machinery. Text: Merriman. Prerequisite: Hydraulics I.


17. **Mechanics of Materials I and II**: The course in Mechanics of Materials takes up work in elastic and ultimate strength of materials and treats of the simple stresses which may come upon materials. This is followed by elastic
and ultimate deformations. This carries the student into a further discussion of the resistance and elasticity of materials, the theory of beams, continuous girders, columns and shafts. The course also includes a discussion of the resilience, combined and true stresses, and elements of the mathematical theory of elasticity. Text: Merriman's Mechanics of Materials. Prerequisites: Higher Mathematics.


22. Bridge Design II.: Complete design of simple trusses and special bridges. Text: Professor's Notes. Prerequisites: Bridge Design I.


**Electrical Engineering**

1. Elementary Electrical Engineering: Lectures, Problems and Laboratory work in electrical measurements. Prerequisite: Physics VI.


11. Alternating Currents: Advanced Theory, lectures, resistances and laboratory. Text: Bedell and Crehore. Prerequisite: Electric Machinery V.


Mechanical Engineering


2. Theory of Steam Engines: Steam engines, compound engines, engine testing, engine economy. Text: Cardullo's. Prerequisite: Thermodynamics.


5. Steam Power Plants: Plant layouts, plant testing, economy, design. Prerequisites: Theory of Steam Engine, Steam Boilers.


8. Mechanical Lab. I: Laboratory work in heat measurements, Boiler Tests. Prerequisite: Thermodynamics.


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; if the latter, a minimum of 5000 words is required; the study to be selected by the professor in charge and the subject to be announced not less than twenty 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, but aims to bestow them on the deserving only. Such honors are not for sale, but must be earned and merited.
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 term.

**Expenses**

On account of the large number of students attending school at the Ohio Northern University, the cost of living has been reduced to a minimum. Tuition for a term of ten weeks, $12.00, which must be paid by Friday of the first week, otherwise an additional dollar is charged. Good board in private families can be obtained at prices ranging from $1.65 to $2.50 per week, and a well furnished room at from 50 to 75 cents per week. Ada is a school town and the majority of the families are engaged in boarding and rooming students. The competition is sharp; hence prices are low and board is good.

A graduation fee of $5.00 is charged to cover cost of diploma. If real parchment is desired the cost is $1.00 extra.
CATALOGUE FOR 1911-1913

COLLEGE OF COMMERCE

FACULTY

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

CHARLES BYRON WRIGHT, G. S.,
Dean.
Stenography, Business English and Letterwriting.

GUY ROLAND TAYLOR, A. B., M. C. S.,
Theory of Bookkeeping, Practical Book-
keeping, Banking, Actual Business, Office Practice.

EMMET ELIJAH LONG, B. C. S.,
Business and Ornamental Penmanship, Pen Drawing,
Commercial Arithmetic, Spelling, Rapid Calculation.

GEORGE WILLIAM SCHEID, B. STEN.,
Stenography, Typewriting.

JOHN FRANK KENNEDY,
Telegraphy.

JACOB SWART, LL. B.,
Commercial Law, Civics.

CHARLES CHESTER MCCracken, A. M.,
U. S. History.

FREDERICK MAGLOTT, A. M.,
Commercial Geography, History of Commerce.

IONA MAY KilMER, B. PED.,
Practical Arithmetic.

JOHN GAMBLE PARK, A. M.,
Grammar, Analysis.

CHILDE HAROLD FREEMAN, B. Sc.,
Rhetoric and Literature.

RICHARD HOLMES Schoonover, A. M.,
Orthography.

ALFA HOLMES,
Registrar.
GENERAL REMARKS

Commercial training has assumed enormous proportions in this country, attracting the attention of our foremost educators and securing the support of our foremost business men. Indeed, the change in public sentiment and the widespread adoption of the central idea of commercial training is phenomenal and well-nigh revolutionary in the history of education.

The main cause lies in the fact that this is essentially a commercial and industrial nation. Even the agriculturist is becoming more and more a business man, and the day laborer finds commercial training a stepping stone to something better. Hence the rapidly increasing demand for trained men and women as Bookkeepers, Stenographers, Typewriter Operators, Penmen, Clerks and Assistants in every avenue of business.

The time required to fit one's self in these lines is not so great that any need hesitate to avail themselves of the opportunity. The great drawback in undertaking this line of training has been the expense involved, only a few young men and women being able to pay the enormous rates charged by the numerous business colleges. Most of these have been organized to instruct in one or two branches, and have no other means of support. Rent, light and fuel are high, and cost of living far exceeds that of a smaller place, so that they can ill afford to demand less than seventy-five to one hundred dollars tuition for a few month's course.

The College of Commerce of the Ohio Northern University is maintained for the distinct purpose of fitting men and women for business pursuits. Its graduates are prepared to go into a business office and perform the work with accuracy and dispatch.

Located in a school town, a part of a great University, and having been training young men and women in these lines for more than thirty years, its advantages are unexcelled. The cost of an education here is extremely low.

All departments of the College of Commerce are open to inspection, and those who contemplate taking a business course, on investigating the results attained here, will see the manifest superiority of its system of instruction and training. Everything is thorough, practical and economical.

To those who are not sufficiently advanced to take up the work of the College of Commerce, the Common School Course is recommended. Students of the College of Commerce are entitled to any branches in the College of Liberal Arts for which they are prepared, free of tuition.
The object of the Initiatory Bookkeeping Department is to present to the student a thorough explanation and illustration of the fundamental principles of bookkeeping. The instruction is individual in method and illustrative in character. The student is carefully drilled in the fundamental and scientific principles of double entry bookkeeping, the forms of all classes of commercial paper, as notes, drafts, checks, bills of exchange, bank drafts, receipts, etc., and the laws relating thereto. After a thorough drill in journalizing, posting, making out business statements, trial balances and the methods of closing the different kinds of ledger accounts, including constant blackboard illustrations and practice, the student passes to more advanced work, where he is required to make use of the various papers necessary to perform such transactions.

Having satisfactorily completed the work in Part I., the student is placed in precisely the same position as if taken into a merchant’s counting room.

The object of Part II., is to teach the practical application of the principles of debits and credits by the introduction of the Sales Book, Invoice Book, Cash Book and Pass Book.

Here the student makes his entries from invoices of merchandise bought, bills of merchandise sold, notes, checks, drafts, etc., received in the course of his business; deposits money in bank, draws checks and drafts, issues notes, makes out bills, etc., in fact he is a bookkeeper from the start, actually performing all his duties from the simplest to the most complex under the careful supervision of the teacher.

Frequent lectures and drills are given as to the matter of handling all kinds of commercial paper, the treatment of Shipments and Consignments, the changing of a set of books from single to double entry, the different ways of adjusting losses and gains in partnership settlements and numerous other principles necessary to a thorough knowledge of the work in hand.

**Actual Business**

One cannot become an expert accountant by reading a treatise or studying a manual. There is only one way to learn book-
keeping and business work, and that is by experience. This school furnishes that experience in its Actual Business Department, which teaches business principles by requiring each student to make actual use of all of them.

Each student is given a capital with which he embarks in the General Merchandise business on his own responsibility. He has a business of his own which claims his attention and ability and requires him to bring into play all he has previously learned.

He is required to balance his books and prove cash every day. One business is closed out and another embarked in through a series of different businesses requiring different forms of books and papers.

He is required to make out all papers and go through all forms necessary to complete the work, and all books and papers are carefully graded and all errors corrected before he is allowed to enter the Office Work.

Office Practice

The student secures employment in a series of Real Estate, Brokerage, Commission, Stock, Railway, Insurance and Wholesale Houses where he becomes familiar with the forms and methods of conducting each respectively, after which he is promoted to a place in one of the three banks. He is made familiar with the different kinds of books used by modern banks, such as the card and loose leaf systems, is given a thorough drill in Interest and Discounts from the practical standpoint and fills the different positions in the bank, such as Collection Clerk, Discount Clerk, Receiving and Paying Teller and Cashier.

Examinations are held at regular periods and each student is required to have his work right before he is promoted from one part to another. All instruction in this department is given on the individual plan, and each student is, therefore, advanced just as fast as his work warrants, and no faster. The work of this department is modeled on lines of originality. Its strongest features are not found in other Business Colleges; a student here having the privilege of taking work in the College of Liberal Arts and the Normal College at the same rates under specialists as teachers.

The graduate of the Business Department of the Ohio Northern University is a thoroughly competent bookkeeper, self-reli-
ant, and, because of the diversity and scope of his training, ready to adapt himself to the varied conditions that confront a bookkeeper in the different lines of business in which he may be employed.

**Higher Accounting**

Two terms of Higher Accounting have been added to the Commercial Bookkeeping Course. This work consists of seven sets as follows: Commission, Real Estate, including insurance and abstracting, Practical Banking, Corporation Accounting, Manufacturing, Railroading and Wholesaling. This gives the student specialized accounting along the lines named and makes his efficiency much higher than a general training alone could do.

Duplicating devices, loose leaf accounting as illustrated in the Commission set, card accounting as in the Real Estate set, special column uses as in the Manufacturing, Railroading, Commission, Real Estate, etc., are introduced in the new work. Voucher accounting, real estate titles and many similar and practical subjects are also given attention.

The models followed are not necessarily such as apply to the particular business with which they are connected. The sale system of the Collection Department of the Manufacturing set, the balance ledger of the bank, the department journal of the Corporation set, the report system of Railroading, the voucher system and check register are matters of general accounting knowledge that ought to be assimilated by the student of accounting.

**Commercial Law**

While most commercial schools devote but little attention to this subject, here it is considered a very important branch. Only such topics are taken up, however, as will be of interest and use to every one in business life; the aim being not to make lawyers, but to teach the essentials of the law so as to enable one to fully protect himself or employer.

Such subjects as these are considered: Contracts, Negotiable Papers, Agency, Partnership, Corporations, Liens, Interest and Usury Law of Partial Payments, Common Carriers, Guaranty and Suretyship, Bailments, Stoppage in Transit, Limited Partnerships, Law of Tender, Bankruptcy, Merger, Wills, Mortgages, Deeds, Conveyances of Real Estate, etc.
The teacher of Commercial Law is a regular graduate of a Law School and holds the degree of LL. B.

There is a one-hour recitation each day. Use is made of the text and case method, as well as the lecture and quiz methods.

**Spelling**

A large percent of those who apply for positions receive no consideration at the hands of prospective employers on account of defects in their letters of application. A misspelled word is frequently the difference between success and failure. More stenographers lose positions on account of bad spelling than from any other cause.

In the drill here, students are assigned lessons from practical lists, and attention is given to the pronunciation and meaning of words, and their use in the sentence, as well as to their correct spelling.

**Commercial Arithmetic**

Thorough drill is given in all the operations required in the ordinary transaction of business. Students are trained to use reason in obtaining results, instead of mechanically following some set rule or form. Special attention is paid to rapidity and accuracy in addition and the use of the shortest methods possible for computing interest and discount. Young men and women thus trained are able to solve the numerous business problems which arise in every business house, and which must be solved quickly and accurately.

Students already proficient in arithmetic can finish this part of the work quickly but those whose early education has been neglected must work until they make up, as far as possible, for the lack of early training.

**Time Required**

It requires from two to three terms to complete the Graduate Course, the length of time depending on previous educational preparation, application, aptness, and so on.

The college is desirous that its graduates shall fully meet the rigorous demands of business employers. This thorough preparation cannot be made in a day; time is an important factor in developing skill. And so no shortcut, catch-penny courses are
arranged, either as to time or quality. The diploma must be a recommendation of ability, as well as a certificate that the specific course has been taken.

To secure a diploma from this Department, the student must have a grade of at least 85 per cent. in all the branches named below.

Students may enter at any time, but all who can are advised to enter at the beginning of the term.

Special Fees

A fee of $3.00 is charged on entering the Practical Business Department, for use of ledgers, commercial papers, etc. A fee of $3.00 is charged for use of typewriter ten weeks, one hour a day. All who have paid the above fees are entitled to free use of the adding machine; other are charged $1.00. A deposit of $2.00 is also required for college currency, which will be refunded when currency is returned, less deduction for loss. The applicant for currency must present his receipts for the above named fees.

Short Course

This course leads to the degree, Graduate of Commercial Science.

FIRST TERM

Theoretical Bookkeeping, Practical Arithmetic, Commercial Law, Spelling and Rapid Calculation, Penmanship, Typewriting.

SECOND TERM


THIRD TERM

Office and Bank Work. The student deals with other pupils who are customers. He handles money, assumes all responsibility of an office, and attains proficiency and rapidity in office work.

NOTE:—Students are required to take practical Arithmetic or pass an entrance examination in this branch.

Students desiring credit for work in Bookkeeping done elsewhere must present books worked out.

A grade of 85 per cent. in Rhetoric will be accepted for Business English.

Long Course

A more extended course is arranged for those desiring the degree, Bachelor of Commercial Science.

FIRST TERM

Orthography, U. S. History, Physiology, Algebra 1, Penmanship.
SECOND TERM
Rhetoric 1, Civics, Algebra 2, Physical Geography, Penmanship.

THIRD TERM
Rhetoric 2, English Literature, Plane Geometry 1, Penmanship, Latin, German, French or Spanish.

FOURTH TERM
American Literature, Plane Geometry 2, Economics, Rapid Calculation, Latin, German, French or Spanish.

FIFTH TERM
Solid Geometry, Physics 1, Commercial Geography, Latin, German, French or Spanish.

SIXTH TERM
Lettering, Physics 2, Botany, Business English, Latin, German, French or Spanish.

SEVENTH TERM
Theoretical Bookkeeping, Commercial Arithmetic, General History 1, Commercial Law, Typewriting.

EIGHTH TERM
Practical Bookkeeping, Banking and Higher Accounting, General History 2, Negotiable Paper, Typewriting and Adding Machine.

NINTH TERM

STENOGRAPHIC DEPARTMENT

Young men and women cannot engage in a more lucrative business than shorthand reporting.

A large per cent. of the hundreds who write regarding this department, ask this question: "Is there a demand for stenographers?" The employment department of the Remington Typewriter Company is conducted through the regular offices in every important city in the United States. It supplies competent stenographers to users of writing machines, without charge either to the employer or employee. The Dean has been in correspondence with the heads of this department in Chicago, Cleveland and Pittsburg. They assure him that they can place all who carry a diploma from the O. N. U. College of Commerce and a letter of recommendation from the Dean. Stenographers have unequalled opportunities for advancement. Whenever promotions are made the stenographer, from the very nature of his occupation, having become familiar with all the principles and methods of the business in which he is engaged, steps into the highest and best paid departments.
The Stenographic Department has one of the most complete and thoroughly practical courses to be found in any school in the United States.

It seems that many Shorthand Schools are striving to see how short and easy they can make the course. The ability to write 100 words a minute in shorthand and operate a typewriter is not all that is required. In order to secure the best positions and command the highest wages, the stenographer should have a thorough knowledge of spelling, penmanship, English letter-writing, manifolding, letterpress work, mimeographing, filing letters, indexing, addressing envelopes, folding circulars,—in short a drill in all the work of a general business office. An extra month or two spent in acquiring this practical knowledge is time and money well spent. Board, room and tuition are so low in Ada, that the complete course here cost less than the "Short Courses" advertised by many City Business Colleges.

Much of the correspondence of the University and of the College of Commerce is dictated to the advanced students of this department. Arrangements have been made with the Deans of the different Colleges of the University and with several leading business men of this place to give their correspondence to the students of this department, as soon as they have acquired sufficient skill; hence each student has practical work in nearly every line of business, and the graduates are able to perform work in a general business office with more accuracy and dispatch than those who have had experience in one line only.

Short Course
(Graduate of Stenography.)

FIRST TERM
Stenography, Typewriting, Spelling, Business English and Letter-writing.

SECOND TERM
Stenography, Typewriting, (including Manifolding and Letterpress Copying), Penmanship.

THIRD TERM
Stenography, (Office Practice), Typewriting, Mimeographing, Penmanship.

Long Course
(Bachelor of Stenography.)

FIRST TERM
Orthography, United States History, Physiology, Algebra 1, Penmanship,
SECOND TERM
Rheterotic 1, Civics, Algebra 2, Physical Geography, Penmanship.

THIRD TERM
Rhetoric 2, English Literature, Plane Geometry 1, Penmanship, Latin, German, French or Spanish.

FOURTH TERM
American Literature, Plane Geometry 2, Economics, Rapid Calculation, Latin, German, French or Spanish.

FIFTH TERM
Botany, Physics 1, Commercial Geography, Latin, German, French or Spanish.

SIXTH TERM
Lettering, Physics 2, Stenography, Business English, Latin, German, French or Spanish.

SEVENTH TERM
Stenography, General History 1, Commercial Law, Typewriting (2 hours).

EIGHTH TERM
Stenography, General History 2, Negotiable Paper, Typewriting, (2 hours) Adding Machine.

NINTH TERM
Stenography, Theoretical Bookkeeping, Contracts, Typewriting, Adding Machine.

Systems

To the beginner the Graham System is recommended, but the Department is prepared to teach any of the leading systems—Pitman, Munson, Dement, Eclectic. Those who have progressed in any one of these systems before entering here are not asked to change from the system of their choice. A thorough acquaintance with these systems has convinced the head of the Department that the Graham is the most practical for all purposes.

It requires from five to eight months to complete the short course. The College does not throw out the bait of a "short and easy" system. "Take a Complete and Practical Course in Shorthand, or let it alone."

Those who graduate from this department are required to have a grade in Penmanship, Spelling and Typewriting.
TYPEWRITING DEPARTMENT

This is one of the most popular departments of the University. Here the student is trained in Letterwriting, Copying, Manifolding, Letterpress work, Form, Punctuation, Paragraphing, Capitalization, Filing and Indexing Letters, Mimeographing, and all the work of a general business office. Most of our typewriters consist of the latest models of the Remington. The fee is $5.00 for term of ten weeks, two hours a day.

PENMANSHIP

Every merchant or tradesman in search of a bookkeeper, stenographer or clerk asks for a specimen of his handwriting. Often the applicant fails because he cannot write a good, legible hand with speed and accuracy. The person who writes well secures the position in preference to all others, and receives the highest wages.

Skill in penmanship does not depend so much on correctness of letters as the movement with which they are written. Unless the movement be free, bold and untiring, penmanship loses its beauty and value. In this department care is taken to develop skill in a free, easy and rapid movement, giving zest and pleasure to an otherwise laborious task.

That the results obtained in penmanship in our public schools are not what they should be is evident from an inspection of the writing of the graduating classes of our high schools and from the oft-repeated remark of merchants that when boys and girls come from the public schools to the counting room, their hand-writing is impracticable and soon undergoes an entire change. The fault lies in the copy-book system of teaching penmanship and in the inefficient instruction given by the average public school teacher. He must be able to teach a free, easy movement instead of the cramped finger movement. Anyone who has sufficient ability to teach other branches successfully can teach writing by becoming thoroughly acquainted with its principles and insisting on a strict adherence to them.

In his instruction the head of this department aims to combine theory and practice, but the student is made to understand that the art is acquired through practice.
TELEGRAPHY DEPARTMENT

The telegraph business is unique in the industries of the world. It furnishes unexcelled opportunities for promotion to responsible positions. Some of the leading railroad and business men of today began their careers as telegraphers. There is always a demand for skilled operators in railroad and commercial telegraph companies. Telegraphy is not difficult to learn. It can be mastered by anyone of average intelligence who places himself under a competent instructor in a good school. The time required to learn the art of telegraphy is ordinarily much shorter in a school than in an office; for in an office the operator has his duties to look after and can give attention to the student only in spare moments. In the O. N. U. Department of Telegraphy the student gets several hours of instruction and practice each day.

The course consists of a thorough training in commercial or railroad telegraphy and requires about twenty weeks for its completion.

This department is in charge of an efficient and practical telegrapher of many years’ experience, under whose instruction the student is made ready to enter any office and attend to its duties successfully.

EXPENSES

Tuition Fees

For one term (10 weeks) strictly in advance .................. $10 00
For two terms in advance .................................. 19 00
For three terms in advance ................................. 28 00
For four terms in advance ................................. 37 00
For five terms in advance ................................. 45 00

Tuition must be paid by Friday of the first week, otherwise an additional dollar will be charged.

All students in the College of Commerce (excepting Telegraphy), are admitted to the regular classes in the College of Liberal Arts without extra charge.
Penmanship

Business Penmanship, per term .................. $2.75
Ornamental Penmanship, per term .................. 3.25
Plain Penmanship, per term .................. 2.50

In the Commercial Course the graduation fee is $2.

Neatly executed diplomas are awarded to those who complete any regular course of study. Those preferring real parchment pay one dollar extra.

Room and Board

Good board in private families costs $1.65 to $2.50.
Furnished rooms, two in a room, 50 cents to 75 cents a week.
Light and fuel 5 cents to 30 cents a week.
Laundry, 15 cents to 25 cents a week.

Refunding

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition is refunded for the unexpired term. If in school longer than a half-term he will be charged at the weekly rate of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
When Founded

The College of Law was established by the Trustees of the Ohio Northern University as a Department of the University, with H. S. Lehr, President, and J. Ross Lee, Dean, in the year 1885. Its alumni now engaged in the practice of the law are to be found in nearly every state and territory in the United States and every city in Ohio. The present Dean has been at the head of the College of Law since 1888.

Its Object

The aim of the founders of the College of Law was to afford an opportunity for young men of the country, of limited means, to secure the benefit of a collegiate training in pursuing this line of study. It was made a department of the Ohio Northern University that law students might have all the advantages of low rates for boarding, rooming and other general expenses, afforded by the University. On payment of the regular law tuition, one can pursue in connection with the law any literary work he may need or that may be required by the State in which he wishes to practice after his admission into the legal profession.
Admission

Students may enter the College of Law at any time, but preferably at the beginning of a school term. Any one holding a diploma from a reputable college, academy or high school is admitted without examination; all others are required to furnish satisfactory evidence of a sufficient knowledge of the common branches to begin the study of law and to pursue it profitably. Examinations for this purpose are given when deemed necessary by the Law Faculty.

Credit

Credit is given for work done at any accredited law college or in the office of an attorney, when properly certified, or an examination is given and the student graded according to merit where he can show evidence of study but cannot produce proper certificate of the work accomplished.

Length of Course

The Course occupies three school years; the school year of 1912-13 beginning September 3, 1912, and continuing four terms of ten weeks each, ends the first week in June. On the Tuesday following the close of the regular school year, a special term begins and continues for nine weeks. A student pursuing the regular course may make up during this special term any work which he has not completed in the regular year's work, or this term may be substituted for one of the other terms in the year's work when it is convenient for the student to make the substitution.

Preliminary Work

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 the Preparatory course in the College of Liberal Arts admits the student to the Bar examination in this state, without a preliminary examination.

Degrees

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study and possess the preliminary qualifications necessary to admit them to the Bar ex-
amination of this state, and have complied with the following requirements:

1. Regular attendance for three years in the Law College of the Ohio Northern University.

2. Regular attendance for two years provided the student brings credits for one year’s study of law either in a college or law school or in an office of an attorney, the work being properly certified.

3. Regular attendance for one year, provided the student brings credits for two year’s study of law in a college or law school, or in an office of an attorney, the work being properly certified.

Students who have not completed the full year’s work in an office or at a law college may complete this work during special terms by having the work which has been completed in the office or law college properly certified.

Where for any reasons certificates can not be obtained, examinations will be given by the Dean and the student graded from that examination.

Recitations

Each student attends from three to four recitations daily, in which he goes over prescribed lessons. These recitations are conducted principally on the quiz method, the best for individual instruction and help, but the lecture and case methods of giving instruction are combined with the quiz method in the class-room work. During the year the student is required to familiarize himself with the principles involved in leading cases on the various subjects, these cases being carefully selected by the instructor.

Library Facilities

There is a good law library connected with the University, to which all law students have access from 8:00 o’clock A. M. until 5 o’clock P. M., except during the noon hour. Students are not allowed to take any books from the library, however, except on a written order from the Dean.

Books Rented

Arrangements have been made with one of the regular book-sellers by which the student may rent most of the text books used in the course at reasonable rates. Those not desiring to rent may purchase books at wholesale rates.
Course of Study

Junior Year.
Blackstone's Commentaries.............Cooey
Elementary Law..........................Fishback
Contracts...............................Clark
Personal Property.......................Smith
Commercial Paper.........................Tiedeman
Real Property...........................Tiedeman
Sales.....................................Tiffany

Code Pleading........Phillips or Bliss
Private Corporations........Elliott
Torts....................................Cooley
Domestic Relations........Tiffany
Criminal Law.....................Clark
Quiz....................................Tiedeman
Practice in Pleading and Procedure
Lectures and Reviews.............

Middle Year.
Evidence..................................Greenleaf
Agency.................................Mechem
Common Law Pleadings........Shipman
Bailments..............................Schouler
Commercial Paper......................Tiedeman
Partnership............................George
Equity...................................Bispham

Real Property........Tiedeman
Civil Procedure...............Fitnam
Swan's Treatise........................
Quiz.....................................
Advanced Moot Court Work...........
Practice in Pleadings and Procedure
Lectures and Reviews.............

Senior Year.
Constitutional Law...............Black
Legal Ethics................Sharswood
Real Property........Tiedeman
Equity................................Bispham
Evidence........................Bradner
Private Corporations........Gardner
Wills................................Elliott

Contracts........Clark
Code Pleading........Bliss or Phillips
Quiz-General Review Work..........:
Advanced Moot Court Trials......
Lectures on Conveyance and
Abstracting................................
Review of Digest and Statutory
Law.

†May be applied on courses in College of Liberal Arts.
The text-books in the subjects mentioned above are subject to change
from time to time, at the discretion of the Dean and Faculty.

Special Work

Classes preparing especially for examinations are formed at
the beginning of the special summer term, the fall term, the
middle term, and the spring term. The work in these classes
consists of a review of the most difficult text-books, digests of
Ohio and other states, leading cases involving the general principles
of the law on various subjects, statutory law, and special
work prepared by the instructors, carefully taking up the leading
topics in the law on which the student is to be examined.

Moot Courts

For the purpose of putting into practice what is acquired,
Moot Courts are held each Friday afternoon, in which the student
has actual practice of the various courts. He is required to
get out all the papers necessary for the case, and to follow strictly
every order of procedure. Pleadings, writs, motions, and
journal entries, together with the principles of proceeding in appeal and error form a part of the work of the student in these
courts, and every detail is looked after by the judge who sits in


the case. Juries are chosen, witnesses are examined, motions made and heard, and everything is made to conform as nearly as possible to the practice of the regular courts. The practice acquired during the course is much greater and more advantageous to the student than the actual work of the first few years of practice. Here his work is looked after and corrected, and he has the advantage of knowing when the work is properly done without the responsibility that attaches to it in the court room.

Advantages Offered

1. The College of Law is part of a University enrolling nearly two thousand students annually.

2. The student may enter at any time, but classes are arranged to suit his degree of advancement.

3. Students may take any literary work in connection with the law without having to pay extra tuition.

4. The course is far less expensive than elsewhere, boarding, rooming and tuition falling much below the prices offered at the law colleges of the cities.

5. All recitations are held at stated hours under the direct supervision of the regular instructors, and the student gets from fifteen to twenty hours of recitations each week.

6. Three literary societies connected with the University admit the law student on equal terms with the literary student, and afford every advantage in the way of forensic speaking and debate, not in the presence of a few persons only, but before the hundreds of students who assemble in the three Society Halls on one evening of each week.

7. A number of Special Debating Clubs meet once a week, where the student has opportunities of forensic speaking and debating in addition to that afforded by the regular literary societies.

8. It is of primary importance in preparing for the legal profession that the student be thoroughly grounded in the great principles of the law. Without a full knowledge of these principles his career as a lawyer will be limited, unsatisfactory and unprofitable. Before he can begin the career of the lawyer, however, he must be admitted to the Bar. The College of Law, undertakes not only to inculcate the great principles of the law, but also to aid the student in an especial manner in his preparations for the Bar Examinations. The student is not left to his own
devices in his review work preparatory to the Examination, the last six months of his course being under the special personal instruction of the Dean, who gives a thorough review of all the branches included in the Bar Examination. Dean Axline has made this line of work a specialty for twenty-one years and his success is best known by the fact that practically all who have done their work under his instruction have passed the Bar Examination and have become successful in the practice of the law.

EXPENSES

Tuition

The tuition for the College of Law is $12 for a term of ten weeks, $23 for 20 weeks, $34 for 30 weeks, $45 for 40 weeks, or $55 for a year of 49 weeks, if paid in advance.

Tuition must be paid by Friday of the first week, otherwise an additional dollar will be charged.

Graduation Fees

Beautiful and neatly executed diplomas are awarded to those who complete the course of study. The diploma fee is $6.00. Candidates for any degree are required to pay full tuition in graduation term.

Room and Board

Good board in private families, $1.65 to $2.50 a week.
Furnished room, two in a room, per week, 50 cents to 75 cents each.
Light and fuel, per week, 5 cents to 30 cents.
Laundry, per week, from 15 cents to 25 cents.
Self-boarding reduces these expenses somewhat.

Refunding

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition is refunded for the unexpired time. If in school longer than a half-term, he will be charged at the weekly rate of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.

For general catalogue and special information concerning the College of Law, address, Chas. B. Wright, Cor. Sec'y.
COLLEGE OF PHARMACY

FACULTY

ALBERT EDWIN SMITH, D. D., PH. D.,
President.

DAVID CHRISTIAN MOHLER, PHARM. G., PHARM. L.,
Dean.
Pharmacy, Materia Medica, Toxicology.

LENIX CRAIG SLEESMAN, PHARM. G., PHARM. C.,
Director of Chemical Laboratories,
Advanced Chemistry.

RUDOLPH HENRY RAABE, PHARM. G., PHARM. C.,
Practical Pharmacy, Demonstrator in Laboratory.

JESSE BEER, B. SC.,
Physics, Inorganic Chemistry.

FRANK LEWIS BERGER, A. B.,
Physics and Chemistry.

GROVER C. KREGLOW, M. S., A. B.,
Microscopy, Physiology, Botany.

HENRY WHITWORTH, A. B.,
Latin.

WILLIAM GROTH, A. B.,
German and French.

EMMET ELLIjah LONG, B. C. S.,
Penmanship.

JACOB SWART, LL. B.,
Commercial Law.

IONA MAY KILMER, B. ED.,
Algebra.

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Assistant in Physics and Chemistry.

ALFA HOLMES,
Registrar.
Demands of Ohio Board of Pharmacy

Every school or college of pharmacy shall comply with the following requirements as a condition of being recognized as in good standing by the Ohio Board of Pharmacy:

1. It shall exact the requirements for admission to schools and colleges of pharmacy adopted by the Ohio Board of Pharmacy, October 13, 1904.

2. It shall possess an adequate equipment for teaching pharmacy in all its branches, including laboratory facilities and apparatus.

3. It shall have an adequate and competent faculty for instruction in the following branches: Pharmacy, Chemistry, Materia Medica, Microscopy, Physiology and Botany.

4. It shall require an attendance of 80 per cent. upon two graded courses of instruction in branches specified (in Article 3) of not less than 26 weeks each, excluding holidays, in two separate years.

5. It shall exact an average grade of 75 per cent. on examinations as a condition of graduation.

6. It shall admit students within thirty days after the opening of any school year, and it shall confer degrees in pharmacy only at the close of each school year upon the completion of the prescribed course of study.

7. Any college may honor official credentials issued by other colleges of pharmacy in good standing as determined by this board, so far as the work offered is the equivalent of or identical with the required work of the school to which credentials are presented, except in branches of study embraced in the last year of its own curriculum.

Advantages Offered Here

The majority of those seeking a school of pharmacy are after a school where a practical and thorough course is offered at the least expenditure of time and money. Attention is respectfully called to the following pages descriptive of the facilities and work offered in the O. N. U. College of Pharmacy, and a comparison with other pharmacy schools challenged. It is believed that nowhere else are more complete courses offered, is more thorough work done, or is the needful expenditure of hard-earned money less than here.

Young women are admitted on an equality with young men.
Requirements for Admission

"No school or college of pharmacy shall be recognized as in good standing by the Ohio Board of Pharmacy which does not require of all applicants as a minimum condition of admission, a common school education or the equivalent thereof, which shall include one year in high school of the first grade (Ohio) or any academy, legally constituted, providing a course of study of not less than four years." (Ohio Board of Pharmacy regulation).

This means that as a minimum the applicant must have had a year of instruction in the following: Algebra, English, Natural Science, History, (United States or General History), and must have reached the age of seventeen years. If he cannot present certificates of grades in these branches an entrance examination is required before matriculation. This examination, however, is demanded of those only who are candidates for the degree of Pharmaceutical Graduate. Those having had four years practical experience and desiring to prepare for state examinations, need not present certificates as above mentioned. (See Quiz Course).

When to Enter

The Management of the University, knowing the worth of time and money to those dependent on their own resources, has adjusted the date of entrance and the course of study to suit the conditions of the student. It is found that a large majority of drug clerks and other young laboring men are not through with their summer's work soon enough to enter as early as colleges generally open. The College of Pharmacy, therefore, opens on the second Tuesday in October and continues thirty-two weeks, with an intermission at Christmastide. This arrangement has at least two advantages: first, a longer time to work behind the counter; second, the completing of the course just in time to take the State Examination in June, when the student is best prepared for it.

Synopsis of Courses

Junior Year: Practices of Pharmacy, Elementary Chemistry, Botany, Materia Medica, Chemical and Pharmaceutical Laboratory Practice, Chemical Equations, Pharmaceutical Arithmetic.

DESCRIPTION OF COURSES

THE JUNIOR YEAR

Practical Pharmacy

The College has two Pharmaceutical and Dispensing Laboratories complete in every detail. The desk arrangement is such as affords the student every facility for complete and thorough work. Each table is supplied with an entire outfit of apparatus (with storing closet), and each student receives full instruction in the manufacture of Waters, Spirits, Tinctures, Liquors, Extracts, Fluid Extracts, Abstracts, Infusions, Decoctions, Oleates, Ointments, Cerates, Plasters, Papers, Suppositories, Emulsions, Collodions, Elixirs, Mucilages, Official Salts, and the more important unofficial preparations. The work embodies all the processes of Weighing, Measuring, Ignition, Calcination, Torrefaction, Incineration, Sublimation, Evaporation, Distillation, Desiccation, Granulation, Crystalization, Precipitation, Dialysis, Filtration, Clarification, Decoloration, Extraction, Percolation, etc.

Chemistry

The laboratory for practical chemical work is also fully equipped with all the accessories necessary in obtaining a thorough knowledge of chemical analysis and synthesis. In this laboratory, open at all hours, 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 graded course is pursued, and the instruction given is carefully adapted to the proficiency of the student.

The work is divided into two parts, commencing with the most simple reaction between the inorganic bases and acids, gradually advancing to the more complex reactions of the inorganic bodies and carbon compounds.

Botany and Materia Medica

The first part of this work is devoted to the study of Elementary Botany. This is followed by the study of Materia Medica, in which special attention is given to the classification of the vegetable and animal drugs, the specific names, properties, uses, doses, chief constituents, and methods of isolating them; sinergists, incompatables and adulterations.
Pharmaceutical Arithmetic

A training class is organized for special drill in balancing chemical equations and practice in pharmaceutical arithmetic. To this and also to any class in the College of Liberal Arts, pharmacy students are admitted without extra charge.

Textbooks

Students may use either Remington's, Arney's, or Casperi's Pharmacy; Remsen and Bartley's Chemistry; Sayers', Culbreth's or Wilcox's Materia Medica; Bastin's, Wood and Gray's Botanies; Sturner's Pharmaceutical Arithmetic. Reference Books to be found in College library—U. S. Pharmacopoeia, U. S. Dispensatory, American Standard Medical Dictionary.

Pharmaceutical Association

Connected with the College is a Pharmaceutical Association, to membership in which each regularly enrolled student is eligible. The membership fee is one dollar, with no dues to be paid afterwards. The fee is applied to the building up of a Pharmacy Library, and the members of the Association, as long as they remain in the school, have library privileges and free access to all the best and latest Pharmaceutical journals and periodicals.

THE SENIOR YEAR

Practical Pharmacy

Prescriptions, Incompatibilities and Drug Assaying are the principal subjects of this course.

In this part of the work the student is required to make up extemporaneous pharmaceutical preparations, as is done in all first-class drug stores and fill bona fide physician's prescriptions from them. He is also required to test them for purity and strength, in compliance with the U. S. P. (eight revision). This work is a very important factor in developing tact, skill and ability.

Chemistry

The work in Chemistry in the Senior course consists of a thorough study of the problems, embracing every form of chemical mathematics. Particular attention is given to volumetric
and gravimetric methods of analysis. In view of the requirements of the Pure Food and Drug Law, special instruction is given in the analysis of foods. By combining lectures with thorough laboratory drill, the instructors assure the graduates a comprehensive knowledge of analytical methods—a point of superiority in this College.

Microscopy

A practical course in Microscopy is offered to Senior students. Not only is explanation given regarding the mechanism of the instrument, and direction in operating and caring for it, but also instruction and practice in the processes of preparing, staining, mounting and preserving specimens. Plants and drugs are studied under the microscope to train the student in detecting and identifying adulterations. Recently several first-class microscopes of high power have been added to the equipment.

Human Physiology

Ten weeks of five class periods each are devoted to the course in physiology, which embraces especially a study of the organs of respiration, digestion, circulation, the nervous system, the assimilation of food, and the physiological and therapeutical effects of drugs upon these organs.

Materia Medica, Therapeutics and Toxicology

Throughout the Senior year, there is a study of official and unofficial drugs, their constituents, official preparation, therapeutical effects, toxic properties and antidotes, closing with a discussion of Toxicology and Incompatibilities.

Textbooks

The textbooks for this course are the same as those mentioned for the Junior Course, and, in addition, Coblenz's or Muten's Volumetric Analysis and Assaying.

Reference Books (to be found in College Library)—U. S. Pharmacopoeia (eighth revision), U. S. Dispensatory, National Dispensatory, Sutton's and Fresenius' Volumetric Analysis.
Equipment

The laboratory equipment for advanced course has recently been increased by the addition of a complete outfit and Gold and Silver Assaying and other metallurgical work. The apparatus includes a Bosworth Ore Crusher, Weatherhead Mortar, Hoskin’s Crucible and Muffle Furnace, Tongs, Crucibles, Scoriifiers, Roasting Dishes, Cupels, Platinum Ware, and other necessary appliances, supplied by the firm of E. H. Sargent & Co., of Chicago. The Pulp and Assay Balances were made by special order for the laboratory by the manufacturers, Messrs. Voland & Von Zelm, and are of the best and most delicate construction. The equipment is of the very best in every particular and the student will find the work most practical.

Requirements for Graduation

Each student is required to pass, with satisfactory grades, an examination at the end of each quarter’s work, and the final examination upon the entire course. There will be no deviation from this rule. Final examinations are held on the Thursday and Friday prior to commencement week. Absence from these forfeits the degree.

The degree conferred is that of Pharmaceutical Graduate, (Pharm. G.).

Special Courses

Students wishing to pursue an extended course for three years, for the degree of Pharmaceutical Chemist (Pharm. C.), first complete the course for the degree of Pharm. G., after which the work is extended. Students who have graduated from schools requiring an equal amount of laboratory work are admitted to the second year on presentation of proper credentials. Much of the work is elective, and is divided into courses of eight months each.

To obtain the degree of Pharm. D. (Pharmaceutical Doctor) the candidate must be twenty-one years of age, must hold a standard High School diploma, and must have had four years of practical experience in a store where prescriptions are filled; must be a graduate of this College of Pharmacy; and must take an additional course, specializing on formulae and assaying of crude drugs. The work requires about twenty weeks for its completion.
Special Quiz Classes

Beginning the second Monday in June and continuing for a period of twelve weeks the College will give special quizzes (in all the subjects) for the benefit of any desiring to prepare for the State examinations. The work done in these classes will receive no credit in the regular work. No laboratory work is given in this course, nor are credit sheets issued. Students may enter these classes without entrance examination and at any time within the period mentioned above.

Tuition for this course, two dollars a week.

Nota Bene

At least one thousand hours of practical laboratory work are required in the courses.

Superior advantages are offered to registered "Assistants" who wish to review for examination as "Pharmacists."

In the reading room all the leading journals in Pharmacy may be found, and in the library hall all the books needed for reference.

The courses are so arranged as to bring each student into recitations and laboratory work each school day except Saturday, and not twice a week, as in nearly all other schools.

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EXPENSES

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<tr>
<th>Service</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Matriculation</td>
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<tr>
<td>Tuition for 32 weeks</td>
<td>$50 00</td>
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<tr>
<td>Deposit fee in Pharm. Laboratory, including drugs</td>
<td>10 00</td>
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<tr>
<td>Chemical Laboratory fee, per Semester</td>
<td>10 00</td>
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<tr>
<td>Diploma</td>
<td>6 00</td>
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The tuition and laboratory fee for the entire 32 weeks must be paid in advance.

A small laboratory fee is charged in Microscopy.

Students are required to replace all broken or damaged apparatus.

Drugs and chemicals are furnished by the College, Free.

Rooms at 50c to $1.25 and board at $1.75 to $2.25 per week.
COLLEGE OF MUSIC

FACULTY

ALBERT EDWIN SMITH, D. D., PH. D.,
President.

CHARLES SANKEY WENGERD,
Dean.
Voice, Counterpoint, Choral Class.

MAY ALCOTT LANCE, MUS. B.,
Piano, Organ, History, Theory.

IVA IDELLA ALBAUGH,
Piano, Voice, Harmony.

VERA WATSON,
Violin.

SHILO SHAFFER MYERS,
Public School Music.

WILLIAM W. RUNSER,
Saxophone.

WILLIAM GROTH, A. B.,
German, French, Italian.

ALFA HOLMES,
Registrar.

The College

This school is established for the purpose of affording superior advantages in pursuing the study of music seriously.

The affinity existing between literature and the arts naturally suggests the University where the two may be studied together. This College of Music is therefore splendidly located in the midst of the University life of the O. N. U. Its surroundings are those of the college community, where there is no lack of concentrated interest and enthusiasm, the College of Music being the center of all musical interests. The systematic lessons, the regular practice and the animated and artistic atmosphere are conducive to the best possible work and corresponding achieve-
mements. Loyalty to one's calling begets enthusiasm; enthusiasm begets work, and earnestness and work beget great results. These things constantly are instilled into those who become students at the O. N. U.

The general plan of the school is that of the best conservatories in this country and elsewhere. Its aim is broad, sound and intelligent musicianship from the very foundation of a musical education. The courses are so planned as to secure the symmetrical development of the musical faculties, which is essential to the true musician, whether teacher or virtuoso.

With her splendid teaching force, good equipment and congenial surroundings, the O. N. U. College of Music stands on the threshold of enlarged opportunities and a still more successful career.

**Equipment**

The College of Music boasts an almost entirely new Equipment. The two-story fireproof building, recently constructed, with sound-proof walls and every modern convenience, is planned for the comfort and accommodation of the music student; the practice rooms, light, well ventilated and tastefully decorated, are furnished throughout with new pianos, while the teachers' studios, reception hall and recital hall, all on the first floor, are artistically arranged and furnished. A large pipe organ and two grand pianos are valuable additions to the general equipment.

**Graduation Requirements**

To complete the entire course of Voice, Piano, Violin, or Organ, will require at least four years under ordinary circumstances, the time, however, depending largely upon the natural talent and degree of proficiency of the student at the time of entrance. The following shows what is required for graduation in each subject.

**Voice**—Private voice lessons, 5 terms of Harmony, 3 terms of Counterpoint and Canon, 3 terms of Musical History and Theory, Ensemble Singing, Sight Singing and Graduating Recital. Enough piano must be had to enable the student to play his own accompaniment.

**Piano**—Private Piano lessons, 5 terms of Harmony, 3 terms of Counterpoint and Canon, 3 terms of Musical History and Theory, Ensemble Playing, Graduating Recital.
Violin—Private lessons, 5 terms of Harmony, 3 terms of Counterpoint and Canon, 3 terms of Musical History and Theory, Ensemble Playing, Graduating Recital.

Organ—Private lessons, 5 terms of Harmony, 3 terms of Counterpoint and Canon, 3 terms of Musical History and Theory, Graduating Recital.

Public School Music—Besides the prescribed course, 2 terms of Harmony, 2 terms of Ear training and at least one year of private voice lessons.

No student will be graduated unless he has spent at least one year in this institution.

A post graduate course is offered which requires one year more of work in any of the courses mentioned above. The degree “Bachelor of Music” is granted to those completing this course. The candidate must have completed a first class High School course or its equivalent.

Vocal Department

This department offers a broad, comprehensive course, and one that tends to develop the voice free from all forcing. To this end great care is first given to the proper condition of breathing and its control in singing. All artificial and mechanical devices are strongly condemned, as only tending to hinder and confuse the student and to harm the voice. Great care is given to a clear, easy emission of tone and the placement of the voice, since herein lies the ruining or making of a voice. The method that forces the voice will never make one. The complete relaxation of all the muscles of the throat, chin, tongue and face by natural means is absolutely necessary to produce a tone of beauty and brilliancy. This can only be done by a complete, concentrated, vitalized muscular action within the body below the chest. This also embraces the absolute control of the breath from the diaphragm.

The modernized idea of the old Italian method of singing is used as a foundation of instruction. Special breathing exercises, exercises for placing the voice and bridging over the registers, and exercises for agility and flexibility are given. Sieber’s Eight Measure studies are used at first, then follow studies selected from the large field of Vocalizes that are especially suited to each individual student. Finally the Masterpieces of Vocali-
zation are used and completed. Songs are given as soon as the individual voice will permit, at which time great care is given to articulation and enunciation, especially of the English language. To be a singer and not to be able to sing English and be understood is not singing in the truest and most artistic manner. Songs are selected from the great field of ancient and modern song writers. In the most advanced work selections are given from the best oratorios and operas.

Piano Department

Owing to the great diversity of needs of individual piano students, it is impractical and well nigh impossible to outline a specific course that can be adhered to and obtain the best results from each pupil. Then with such a wide field of old and constantly increasing amount of valuable new material, from this standpoint also it is not thought advisable or practical to be specific.

Great care is taken with all grades of students and since there are no under teachers each student receives the same superior instruction. All the scales, arpeggios, chords, etc., in many forms are used; special etudes of different grades and styles are selected to better develop the physical and connect it with the intellectual; and all grades of composition from the classic and romantic school of the past and present are used.

Violin Department

This department is now placed on a high plane, and has been greatly strengthened by securing the present teacher as head of this department. What has been said concerning the impracticability of outlining a specific course for Piano is also true in Violin instruction.

With perhaps the exception of the piano the violin is the most universally accepted and used instrument. Its capacity for melody and varied emotional expression approaches closely the human voice. Certainly no instrument is so hard to master, but when mastered, so capable of stirring the emotions of man. The course comprises special technical exercises for the individual student. All manner of etudes and studies, as well as compositions from the ancient and modern composers are used.
Organ Department

A fine two-manual organ is provided for use in this department. The course provides for all that is necessary to a mastery of the organ for church music, voluntaries and improvising, drill in technics, pedaling, registration and accompanying. Compositions from the different schools of organ playing are given. Before taking up organ the student should have had at least three years of piano.

Teachers' Course

In the various branches of music there is always a certain class of students not especially gifted as performers but often well qualified to teach. For this class this special course is offered.

The work is the same as for all graduates except that the student is required to study Pedagogy sometime before graduation. The pupil is not required to give a graduating recital.

A teacher's certificate is granted to those completing this course.

Harmony, Counterpoint

A thorough knowledge of Harmony and Counterpoint is essential to a complete and broad musical education, and whether the student has graduation in view or not he is urged to take up these studies.

The work consists of gaining a knowledge of keys, intervals, signatures, scales and chords of all kind, melodic changes, etc., the harmonizing of melodies and inventing and harmonizing of original melodies. Emery's Harmony is used.

Two, three, four, six and eight part counterpoint, and imitation is taught. Ayer's "Counterpoint and Canon" is used as a text.

History and Theory of Music

A complete study is made of music from the beginning. Early Christian Music, Polyphonic, Monophonic and the development of Instrumental Music, Opera, Oratorio and Orchestral Music, Biographies of the great musicians, past and present.

Baltzell's History is used. Elson's theory is used as a text and embraces the study of acoustics, the orchestra and its instruments, musical rhythms, signs, embellishments, and the many different musical forms.
Ear Training

This study aims at the special cultivating of the ear to a quicker and more accurate perception of pitches, scales, notation, studies in rhythm, motives, phrases, chromatics, modulations, two, three and four part exercises, imitation. Heacox's Ear Training is used as a text.

Post Graduate Course

A special course is offered for the first time to graduates, or advanced pupils of voice, piano, violin or pipe organ, consisting chiefly of acquiring a repertoire. The degree of Bachelor of Music is awarded to those satisfactorily completing this course, which requires one year.

COURSE FOR PUBLIC SCHOOL MUSIC SUPERVISORS

Entrance Requirements

The candidate for admission to this course must have a High School education or the equivalent, together with the ability to sing correctly, read ordinary music at sight and play upon some one instrument, Piano or Organ preferred.

Required Studies

Two terms in Voice Culture; two terms in Harmony; one term in Form and Composition; one term in History of Education; one term in Elementary Psychology; one term in Pedagogy and methods; two terms in History of Music and three terms in Grade Outline work, Organization and Supervision.

The entire course may be completed during three Summer terms, and upon completion a diploma will be granted.


Third Term: Form and Composition, Voice Culture, Pedagogy and Methods, Grade outline work, Organization and Supervision and Chorus conducting.

Students desiring to complete the Grade—Teachers' Course will be required to take one term in Grade outline music work, and one term in the Rudimental and Sight Reading class
The class in Rudiments of Music and Sight Reading is open to all students.

Tuition per term, $12.00, including all of the above named branches, except lessons in Voice Culture, which are private and for which the regular tuition is charged.

N. B. The work that may approximately be done in each grade will be taken up separately. Students may enter any or all grades.

Supervisor's Special Short Term

A Special Short Term of Four weeks for Music Supervisors will be held beginning Monday, June 24, and ending Friday, July 19, 1912. This course is provided for the purpose of affording a review for those active in the work, and to furnish an outline of work for those who contemplate teaching and supervising music in Public Schools. It also includes Drawing and Penmanship.

Students are here afforded an excellent opportunity for coming into contact with other Supervisors, and for discussing the latest and most advanced methods and ideas relative to Public School Music Teaching.

For full outline of this course see Summer School Bulletin.

Courses for Rural Teachers

The work done in this class will be a practical demonstration of the gradual unfolding of the subject in accordance with the physical, mental and social development of the child, including a study of the various problems to be met in the ungraded school. This course also includes the first four years for Grade Teachers.

SPECIAL ADVANTAGES

Student Recitals

Students' weekly recitals are held regularly, at which time all grades of pupils from all departments are given the opportunity and valuable experience of appearing before and audience. At the close of each term the more advanced students give a public recital to which the public is admitted.

At frequent intervals the College of Music Faculty give recitals, at which there is an explanation of the music performed, thus affording the student the opportunity of becoming more intimately acquainted with the best grade of music well performed.
O. N. U. Choral Society

Two concerts were given within the past year. On December 23rd full performance of "The Messiah" was given with four eminent soloists, and on June 5th at the regular Commencement concert, Rheinberger's "Clarice of Eberstein" was given for part of the program, the soloists for the occasion giving the other part.

A revival of interest as well as a very high order of work have characterized the efforts of the Society during the year. So marked has been the high quality of the work that visiting solo artists have been most enthusiastic in their praises.

The Society aims steadily to raise the artistic standard rather than greatly increase its numbers; an examination, therefore, is required of all applicants for admission to the Society.

Applicants from all departments of the University and from the town are invited. There is no question about the value of the training to be obtained by regularly attending the rehearsals of such an organization. The rehearsals are held on each Monday night throughout the year excepting the Summer term.

Artists' Recitals

The following artists appeared here during the season of 1911-12:

Lucile (Stevenson) Tewksbury, Soprano.
Genevieve Smith, Harpist.
Alfred Culzin, French Pianist.
Esther May Plumb, Contralto.
David Dunbar, Tenor.
Edward Freund, Violinist.
Allen Spencer, American Pianist.
Dr. E. Bruce Knowlton, Musical Lecturer.
Walter Earnest, Tenor.
Mrs. C. M. Sutton, Soprano.
E. Eleanor Patterson, Contralto.
Walter Bentley Ball, Baritone.
Grace Hall-Riheldaffer, Soprano.

These artists' recitals are secured especially for the culture and education of the students of the College of Music.

There is no other means of so greatly broadening and elevating the standard of musicianship among music students as by hearing the great artists of our country and Europe; the management has thought best to make attendance at these recitals compulsory by charging each student the small term fee of 50 cents for the Fall, Winter, Middle and Spring Terms. The fee paid entitles the student to a free ticket to all the artist recitals of the term.
Male Chorus

The chorus is open to all men of the school with suitable voices. This chorus has about thirty members and appears in concerts several times a year.

Church Choirs

A large chorus choir at the First M. E. Church is under the direction of Mr. Wengerd, and other churches of the city maintain splendid choirs. Students are invited to join one of these choirs.

Rudiments and Sight Reading

A class in rudiments and sight reading is organized each term, meeting five times a week, free to all music students and those in the College of Liberal Arts.

Orchestra

The three Literary Societies each have good orchestras to which all players of orchestral instruments sufficiently advanced are admitted.

Electives in Literary Courses

The following subjects may be applied on courses in the College of Liberal Arts; Harmony, 15 hours; History of Music, 10 hours; Theory of Music, 5 hours.

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EXPENSES

Piano, Organ, Voice, Violin, Cornet, or any other instrument, term of 10 weeks, two lessons a week $15.00
One lesson a week ........................................ 8.00
Harmony, per term ........................................ 6.00
Public School Music, per term ............................. 6.00
Counterpoint .................................................. 6.00
Ear training, in class ....................................... 3.00
History of Music, in class ................................. 3.00
Theory of Music, in class .................................. 3.00
Use of Pipe Organ, one hour a day, per term ........... 5.00
Tuition for Rudimental Music, per term .................. 2.50
Piano Rent, one hour a day, per term ..................... 2.00
Clavier Rent, per term ..................................... 1.00
Rent of motor for pumping Pipe Organ, per hour ....... 10
Artists' Recital fee, per term .............................. 50
Graduation Fee

In the College of Music the graduation fee is $5.00. Beautiful and neatly executed diplomas are awarded to those who complete any regular course of study.

Rooms and Boarding

Good board in private families, $1.65 to $2.50 a week.
Furnished room, two in a room, 50 cents to 75 cents each a week.
Light and fuel, 5 cents to 30 cents a week.
Laundry, 15 cents to 25 cents a week.
Self-boarding reduces these expenses somewhat.

Regulations

1. All tuition payable by Friday of first week, otherwise a dollar additional will be charged.
2. Credit will be given for work done elsewhere, and the pupil will be allowed to enter the grade for which he is prepared.
3. No allowance is made for absence from lessons except in case of protracted illness.
4. Pupils who will not practice will not be retained.
5. Applicants must consult the Dean before registering.
6. No student in this institution will be allowed to receive instruction from any teacher outside the school. This rule will be rigidly enforced.
7. All candidates for graduation from any of the prescribed courses will be obliged to pass a satisfactory examination before the College of Music Faculty before entering the Senior year.

Refunding

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition will be refunded for the unexpired time. If in school longer than a half-term, he will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
The school maintains that expression is the manifestation of individual character, a revelation of personality, and that mechanical "systems" and "rules" based on imitation fail to develop and reveal the powers of the individual. It therefore aims to give to professional men and women and all others seeking instruction in expression such thorough training as will enable the individual soul easily and rightly to express itself.

Courses of Study

1. General Culture Course. This is the standard course of the school and is intended to meet the demands, not only of those who contemplate a professional career, but of all desirous of acquiring the ability of ready and pleasing utterance.

Each student is given one hundred and fifty lessons and ten private lessons each term. Ordinarily forty weeks are needed for the completion of the course.
Outline of Course

Voice Culture and Development, Elements and Principles of Expression, Imagination and Dramatic Instinct, Impersonation, Vocal and Literary Interpretation of the Bible, Criticism and Rendition, Extempore Speaking, Debating and Physical Training, including Harmonic and Swedish Gymnastics, Pantomime, Indian Clubs, Wands, Dumb-bells, etc.

Each student completing this course is required to have a repertoire of at least 25 productions averaging ten minutes in length, also one long production of 45 minutes or more in length to be delivered before a public audience.

A certificate is issued to those completing the course.

2. Professional Course. This course is arranged for those contemplating teaching or a platform career. The instruction is adapted to the needs of the student’s intended profession.

Outline of Course

First Year. Same as General Culture Course.


Each candidate for graduation is required to have at least 40 approved productions and some monologue requiring from one hour to one hour and a half for presentation.

3. Oratorical Course. This course is arranged especially for those who wish to make public speaking a profession. It prepares the student for the lecture platform and for the delivery of original productions.

A candidate for graduation must be a graduate of an approved college or university. Forty weeks are needed for the completion of the course.

Outline of Course


4. Clergyman’s Course. This course is essentially the same as the Oratorical Course except in the subject matter used. A special study is made of the great pulpit productions.
Outline of Course

In addition to the regular work required in all the courses the student must prepare and deliver at least ten sermons. Special attention given to the vocal and literary interpretation of the Bible. The Bible in worship. The art of the Master. The literary, narrative, didactic, oratoric, allegoric, lyric, dramatic and epic spirit. Rythmic actions of the mind. Discrimination in thinking. Method of the imagination. Sympathetic identification, Selection and arrangement of the lesson. Harmony of the service.

5. Physical Training Course. This course offers an opportunity for study in every line of training given in the best schools. It may be taken in connection with regular college work, and is really the gymnasium of the University.

The course includes correct breathing, voice, standing, walking, proper bearing, harmonic gymnastics, Swedish gymnastics, clubs, wands, dumb-bells, fancy drills and marches, fencing pantomine and gesture—training for the proper harmonious development of the entire body, under the direction of teachers who are specialists in this line.

The attention of public school teachers is called to this course as especially suited to their needs and fitting them for greater usefulness in their schools and incidentally, increasing their earning capacity. A certificate is granted to those completing the course.

Auditoriums for Practice

Students are not required to practice in small rooms. Several large auditoriums, seating from three hundred to two thousand each, afford convenient rehearsal rooms, in which the students practice at regular hours.

Recitals and Contests

The College offers the students many opportunities of appearing before public audiences as readers, orators, debaters and public speakers in general. A goodly number of programs are arranged every year in the University and town, to all of which students are eligible. In addition, the students are expected to appear in frequent recitals given by the College.

A Lecture Course is supported by the Literary Societies of the University, giving the student an opportunity of hearing the most famous of the platform celebrities.

Several contests are held during the year, in which the winners are awarded cash prizes of varying amounts.
Degrees

Those completing the Professional Course are entitled to the degree of Bachelor of Expression, and those completing the Orator's and Clergyman's courses are given the degree of Bachelor of Oratory.

Candidates for degrees must hold a first-grade high school diploma or its equivalent. All others completing courses are given certificates but not diplomas. Diplomas and graduation fee, $5.00.

Attendance

Examinations are held every five weeks. No allowance is made for absence except where the student is excused. When a student misses a lesson, he is required to make up the work. One day's notice must be given in order to be excused from a private lesson.

Cost of Instruction

The tuition for a full year in any of the first five courses is $100, payable in advance, or pro rata by the term in advance. This tuition entitles each student to six hundred class lessons and forty private lessons and whatever branches he may wish to take in the College of Liberal Arts. The tuition in the Physical Training course is from $20 to $40.

Special Rates of Tuition

In order to accommodate those students of the College of Liberal Arts and the special departments of the University who may wish to take work in the department of Expression in connection with their other courses, the following rates are made:

All students who are paying $10 or more tuition per term in the University are entitled to enter any class in the School of Expression on the payment of $5. This entitles them to fifty class lessons. Physical training classes, fifty lessons, $4 per term. Private lessons, $1 per hour. All tuition payable at the office of the University by Friday of the first week, otherwise an additional dollar is charged.

Credits

A certain amount of the work in the School of Expression may be applied on a degree in the College of Liberal Arts. For the year 1912-1913, twenty credit hours will be allowed as electives in the College of Liberal Arts.
General Remarks

The educative effect of a study of the Fine Arts scarcely can be overestimated. It opens the eye to form and color as nothing else can; it trains the hand, refines the taste and cultivates an appreciation of the beautiful.

No part of a lady’s education affords her greater ability to render her more beautiful and attractive than skill in the Fine Arts. It is an accomplishment that leaves its records behind it in the works that have been wrought out. Knowledge may be forgotten, music may be neglected, but the picture, statue, or carving ceases not to proclaim the success of the student.

The O. N. U. School of Fine Arts is conducted on the most modern methods—a direct study from life and nature. Communication is kept up with the leading art centers, and a ready hearing given to all new methods and theories. The guiding principle on which the school is founded is to maintain the highest efficiency, a severe practice of academic drawing and painting from the antique and from objects; and around this practice, as a living stem, to group the various departments of art education.

The School is able to announce that ample arrangements have been made for competent and thorough instruction in the fine arts, and the methods in vogue in the Art Institute of Chicago, one of America’s leading art schools, are brought into use in this department.
The Studio and Art Shop

The studio, well equipped with models in all its departments, is located in the central portion of the city. The fine collection of the late Col. Albert Rogall, a connoisseur and artist, form a part of the four thousand studies belonging to the school. Students have access to these studies and also to standard art magazines and literature of the day.

In connection with the studio is an Art Shop, with facilities for furnishing the best possible material and supplies for all branches of art work at a minimum price. Easels and some other equipment are provided by the school.

A kiln set up in the building affords opportunity for making a practical study of the firing of china. White china is found on sale in the Art Shop.

Instruction

In class instruction the work of each student is carefully supervised. Thoroughness is insisted upon, and the aim is to call out the latent ability to its fullest expression. Promotions depend on the degree of proficiency shown in the work, and this is tested by examinations under the direction of the dean.

Those wishing a certificate from the School of Fine Arts are required to pursue, and show proficiency in these branches: Free Hand, Crayon, Perspective, Pencil, India Ink, Charcoal Drawing, Lettering, Painting in Landscape, Portrait, Fruit and Flowers in oil and water colors; Pyrography, or burnt wood; Sketching from nature and life; China Decoration, Modeling, etc.

Students satisfactorily completing the courses above mentioned are eligible to a certificate, but diplomas are granted only to those who have completed the three years' course.

Drawing

A knowledge of form and how to express it lies at the basis of all fine art and also enters into much of the work of applied science, and hence drawing occupies an important place in the curriculum.

Special attention is given to Freehand, Lettering, Perspective, Projection and Mechanical Drawing. Those studying Engineering, Physics and Mechanics are required to take a thorough course in drawing.
Sketching

Skill in the art of drawing and sketching is indispensible to success in primary teaching, and also greatly increases the efficiency of the teaching in natural history and physics. Indeed, Drawing and Sketching, once thought mere accomplishments, are now recognized as attainments of utility to every calling. Drawing occupies so prominent a place in the work of the public schools, that the call for competent teachers of drawing is noticeably increasing. The work in Drawing embraces Pencil, India Ink, Crayon, Charcoal and all Black and White Work.

Painting

As a necessary accomplishment, painting, at the present day, holds an equal place with music. Then, too, within much less time and at considerable less expense, anyone of moderate ability can become a fairer painter than performer on the pianoforte.

The course in painting includes Landscapes, Portraits, Fruits and Flowers in oil and water colors, from nature and life.

China Painting, Decorating of all descriptions and Pyrography are taught in the College.

Lessons in Oil and Water Color and also in Crayon and Pen and Ink are given, four two-hour lessons each week.

Crayon

There is always a demand for crayon artists. The few materials, the ease and rapidity with which crayon work can be executed and the comparatively short time required to learn it are considerations that lead many to prefer it to oil painting. This department is in charge of an accomplished artist.

EXPENSES

Pencil Drawing, Crayon Drawing, Water Colors, Oil Painting, India Ink, Mechanical and Industrial Drawing,

Special tuition per term, each.................................$10 00
Freehand, per term.............................................. 3 00

Tuition must be paid by Friday of the first week, otherwise an additional dollar will be charged.
Graduation Fee

In the School of Fine Arts the graduation fee is $2.00. Neatly designed certificates are awarded to those who complete any regular course of study.

Rooms and Boarding

Good board in private families, $1.65 to $2.50 a week. Furnished room, two in a room, 50 cents to 75 cents each a week. Light and fuel, 5 cents to 30 cents a week. Laundry, 15 cents to 25 cents a week. Self-boarding reduces these expenses somewhat.

Refunding

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition is refunded for the unexpired term. If in school longer than a half-term, he will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
The last catalogue announced the creation of the College of Agriculture. The first year's work, now drawing to a close, on the whole has been successful. Twenty-six young men have been enrolled in the various classes of the two year course and one hundred and sixty-one have taken the work in elementary agriculture for teachers. By the end of the present year these figures, no doubt, will be doubled. The equipment of the college is constantly enlarging, thanks to the generosity of its many friends, so that in a very short time it will be sufficiently equipped to teach in a scientific manner all the branches outlined in the courses. A fine farm of fifty acres is at its disposal which
enables it to maintain sufficient live stock for educational purposes and also to maintain greenhouses and gardens and experimental plots illustrating the different methods in school garden work. Plans and specifications have been drawn up for an agricultural building which it is hoped will be ready for occupancy by the first of the next school year. When established in the new quarters with suitable equipment secured, the college will be in a position to offer a two-year course in agriculture second to none. This course is especially designed for the young man who expects to make his home on a farm. It not only includes work in the scientific features pertaining to agriculture, but also work of a general nature, which will broaden his outlook and prepare him to be a leader in his community. If the prospective student considers the cost of two years schooling here and at other schools, and the individual attention given each student, he will be impressed with what the O. N. U. has to offer. At a very early date it is the intention to install a Domestic Science Course in connection with the agricultural department, and the new building is designed with that end in view. This announcement is made now, that prospective students who desire to take Domestic Science in addition to other work, may be led to choose the O. N. U. with the intention of taking Domestic Science toward the end of their course.

Short Course for Teachers

Agriculture I. For a description of this course, see Agriculture under College of Liberal Arts. This is a ten weeks course covering the points of most importance to public school teachers.

Two Years Course

This course is designed for students desiring a thorough practical working knowledge of modern agricultural science; young men who intend to make farming their vocation will find here a good preparation for a successful career. It includes work of a general educational character followed by practical courses in crop production, animal husbandry, and farm management.

To students completing the two year course a certificate will be issued, showing the nature of the work covered. Students in this course will be given full junior and senior ranking and will be entitled to all the privileges appertaining thereto.
First Year

Fall Term: Types and Breeds of Farm Animals I., Penmanship and Letter Writing, Algebra I., Soils.

Winter Term: Types and Breeds of Farm Animals II., Physics I., Algebra II., Farm Accounts.

Middle Term: Physics II., Chemistry I., Geometry I., Horticulture.

Spring Term: Botany I., Physics III., Chemistry II., Garden Culture.

Second Year


Middle Term: Crop Production, Farm Management, Principles of Breeding. Electives: Farm Buildings, Commercial Law.

Spring Term: Elective: Gardens and Gardening.

Description of Courses

2. Types and Breeds of Farm Animals. A course covering history, development, characteristics and importance of the various types and breeds of animals. Two terms. —Professor Richey.

3. Soils. The origin, formation, structure and physical properties of soils. —Professor Richey.

4. Farm Accounts. A brief course in bookkeeping with special reference to keeping farm accounts. —Professor Taylor.


7. Farm Mechanics. A study of the principles and operating of farm machinery, farm meters, etc., and methods of determining draft of implements together with the various methods of construction with special reference to concrete. —Professor Richey.

8. Feeds and Feeding. A study of the principles of nutrition, nature of feeds and the care and handling of different classes of livestock. —Professor Richey.
9. **Dairying.** A general course covering the important points of farm dairying, including handling of milk, butter and cheese, and ice cream making. —**PROFESSOR RICHEY.**

10. **Rural Economics.** A course covering the important social and industrial problems with which the farmer has to contend. —**PROFESSOR RICHEY.**

11. **Crop Production.** A study of the nature and structure of the various grains and crops together with the methods of culture, handling and marketing. —**PROFESSOR RICHEY.**

12. **Farm Management.** A study of the different forms of handling farms and the management of capital and labor from the farmer’s view point. —**PROFESSOR RICHEY.**

13. **Principles of Breeding.** A course in breeding and selecting farm animals, with discussions of the various principles of breeding. —**PROFESSOR RICHEY.**

14. **Poultry Culture.** A study of the classes of poultry with special stress upon methods of handling. —**PROFESSOR RICHEY.**

15. **Judging Live Stock.** A study of the conformation of farm animals with practice in selecting and judging. —**PROFESSOR RICHEY.**

16. **Farm Buildings.** A study in designing and planning a modern system of farm buildings. —**PROFESSOR RICHEY.**

17. **Soil Fertility.** A study of the elements of plant growth and the various forms in which they may be supplied. —**PROFESSOR RICHEY.**

18. This course is designed for agricultural students. The first five weeks will be spent in studying Trigonometry and the remaining five in Plane Surveying. This course should be preceded by Geometry II. —**COLLEGE OF ENGINEERING.**

**Commercial Law.** A course designed for commercial students but will be adapted to agricultural students. —**COLLEGE OF LAW.**
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 inexpensive.

Tuition Fee

For one term (10 weeks), in advance.......................... $10 00
For two terms, in advance..................................... 19 00
For three terms, in advance.................................... 28 00
For four terms, in advance..................................... 37 00
For five terms, in advance.................................... 45 00

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

Laboratory Fees

Fees to cover breakage and cost of chemicals and other materials used in the laboratories are charged each term as follows: Chemistry, $4.00; Physics, $2.00; Biology, Botany and Zoology, each, $1.00.

Room and Board

Good board in private families, $1.65 to $2.50 a week.
Furnished room, two in a room, per week, 50 cents to 75 cents each.
Light and fuel, per week, 5 cents to 30 cents.
Laundry, per week, from 15 cents to 25 cents.
Self-boarding reduces these expenses somewhat.

Refunding

No tuition will be refunded for the first half of the term. In case of protracted sickness of the student, tuition will be refunded for the unexpired time. If in school longer than a half-term, he will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. No tuition is refunded to students who have been suspended or expelled. Receipts are not transferable.
DEPARTMENT OF MILITARY INSTRUCTION

FACULTY

ALBERT EDWIN SMITH, D. D., PH. D.,
President.

WILLIAM S. NEELY, 1ST LIEUT. 22ND U. S. INFANTRY,
Commandant.

Under act of Congress, approved April 21st, 1904, an officer of the regular army is detailed at this University. The detail is continuous, the officer being replaced every three or four years.

The arms and equipments, and the artillery, with the necessary appendages, are issued by the Ordnance Department of the United States Army. The arms now in use are the United States Magazine Rifle, Caliber 30, (commonly called the Krag-Jorgensen). These rifles, as well as all the other infantry equipment, were received in March, 1908. The artillery is equipped with the saber, in addition to the muzzle-loading guns, model 1861, with carriage and limber. Swords and belts are furnished to the cadet officers.

As soon as the local company of the Ohio National Guard complete their target range, within a quarter of a mile of the University, an effort will be made to hold annual target practice for all cadets, using the service cartridge. At the present time target practice is held with the sub-caliber rifle, caliber 22.

Organization

The Cadet Battalion at the present time consists of the following: One Cadet Major, one First Lieut. and Cadet Adjutant, one First Lieut. and Cadet Quartermaster, one First Lieut. and Cadet Band Leader, and one Cadet Sergeant Major.

Company A. 1 Captain, 1st Lieutenant, 1st Sergeant, 1st Quartermaster Sergeant, 4 Sergeants, 4 Corporals, 27 Privates.
Company B. 1 Captain, 1st Lieutenant, 2nd Lieutenant, 1st Sergeant, 1st Quartermaster Sergeant, 4 Sergeants, 4 Corporals, 27 Privates.
Company C. 1 Captain, 1st Lieutenant, 2nd Lieutenant, 1st Sergeant, 1st Quartermaster Sergeant, 4 Sergeants, 4 Corporals, 27 Privates.
Company D. 1 Captain, 1st Lieutenant, 2nd Lieutenant, 1st Sergeant, 1st Quartermaster Sergeant, 4 Sergeants, 4 Corporals, 27 Privates.
Battery B. 1 Captain, 1st Lieutenant, 2nd Lieutenant, 1st Sergeant, 4 Sergeants, 4 Corporals, 20 Privates.
Signal Corps. 1st Lieutenant, 1st Sergeant, 4 Sergeants, 4 Corporals, 15 Privates.
Band. 1st Lieutenant, 4 Sergeants, 1 Drum Major, 4 Corporals, 22 Privates.
Appointments and Promotions

The cadet officers are elected by the companies, and after due examination, if found proficient, are appointed by the Commandant of the Cadets. The Non-Commissioned officers are appointed by the various company commanders, and after examination, as in the case of officers, appointed. A Cadet private of ability and energy may pass, in time, successfully through the several grades to the captaincy of his company.

General Orders No. 165, War Department, dated July 24th, 1907, provides as follows: "All rules and orders relating to the organization and government of all military students; the appointment and change of officers, and all other orders affecting the military department, except those relating to routine duty, shall be made and promulgated by the Professor of Military Science and Tactics, after being approved by the chief administrative officer of the institution."

The examination for officers, or for non-commissioned officers, comprises for sergeants and corporals, the School of the Soldier; for lieutenants, the School of the Company; for captains, the School of the Company and Battalion.

Captains who fail to maintain their companies in satisfactory condition as to strength and instruction are expected to tender promptly their resignations.

Commissions and Warrants

Commissions and warrants, similar to those issued in the Regular Army, are issued to the officers and non-commissioned officers after passing the prescribed examinations. The commissions and warrants are supplied at the actual cost, $1.35 for commissions, and 60 cents for warrants. These are certificates of military service, and are valuable to the holder in after life, or in time of war. Commissions and warrants will remain in force while the Cadet is a student at this University, or at the pleasure of the Commandant.

Military Drill Compulsory

Every able-bodied male student intending to complete any of the University curricula, or taking work necessitating two years or more of attendance, is required to drill and recite in this department three terms and "go through contest;" the mili-
tary work counting as a substitute for any elective in his curriculum. Assignments of new students to companies is made by allotment as the names come to the registrar's roll in the office of the University. In order to secure some credit on the records of the University, the cadet is required to be regular in attendance, to be subject to all military discipline, to drill not less than one hundred and fifty hours, and to win a grade of at least 85 per cent.

**Instruction**

The cadets are drilled each year in the Schools of the Soldier, Company and Battalion and in the ceremonies, and in the Manual of the Saber, besides the regular foot drill. The signal Corps is instructed in visual signaling, both with the flag and torch. The Band holds the regular band practice at the drill hour every day, and is also exercised in the School of the Squad, (Infantry). Drill is held every day for one hour, except Saturdays and Sundays. Officers' and Non-Commissioned officers' school is held one hour a week by the Commandant.

The drill (and school) is so timed as not to interfere with the academic duties, and is found to be entertaining, invigorating and healthful—a pleasant relaxation after the close sedentary hours of the students' desk and class room.

**Text-Books**

The following text-books, furnished by the War Department are designated for the course: Infantry Drill Regulations; Manual of Guard Duty; Field Service Regulations; Small Arms Firing Regulations; Outlines of First Aid of the Wounded; Lectures.

Special attention is given to the preparation of the cadets for the United States Military and Naval Academies, and of candidates for the commissions from the ranks or the Regular Army.

**Uniform**

The Battalion of Cadets and the various other organizations belonging to the military department will be uniformed as follows: Khaki breeches, olive-drab flannel shirts, canvas leggings, campaign hat, hat cord and hat ornament. This uniform is similar to that worn by the troops of the Regular Army, and has been found to be the cheapest and most serviceable that can be
found. All the parts of the uniform can be worn with civilian dress, so it is not a loss to the cadet after leaving the University. Tan or russet shoes are worn with this uniform, the style to suit the individual wearer. The entire uniform is of superior quality, and can be purchased for about $8.20, subject of course to the change in the market price.

Prizes

A special cash prize is awarded in the Spring term to the cadet presenting the best appearance, and showing the greatest proficiency in drill and discipline.
REGISTER 1911-1912

DEGREES, GRADUATES, UNDERGRADUATES

MASTER DEGREES

Gray, Arthur A. .............................................. (Class.) .......... Fort Collins, Colo
Appling, Alfred A. .............................................. (Sci.) .......... Viborg, S. Dak.

CLASS OF 1911

Names not published in last year's Catalogue

Master Degrees

Elam, Charles M. .............................................. (Sci.) .......... Knoxville, Tenn.
Kilmer, Iona M. .............................................. (Ped.) .......... Ada, O.

Classical

Davis, Lena Belle .............................................. Syracuse, N. Y.
Berger, F. L. .................................................. Ada, O.
Esaias, John Rollaud .......................................... Morris Run, Pa.
Miller, Anna .................................................. Monessen, Pa.
Barnes, Sylvia Marie .......................................... Shiloh, O.
Webb, L. A. .................................................. Ada, O.

Scientific

Skutt, Clarence Wilson ......................................... Jordan, N. Y.
Suber, A. O. .................................................. Wharton, O.
Wilson, Nellie Lavern ......................................... Ada, O.
Deuman, H. B. ................................................ Akron, O.

Philosophy

Barnes, C. C. ................................................ Whigville, O.
Kail, Esther ................................................ Upper Sandusky, O.

English

Sheets, Vernon T. ............................................. Ada, O.
Drake, Leland N. ............................................. Strongsville, O.

Teachers

Kilgore, P. E. ................................................ Lima, O.
Fox, Charles L ............................................... Gomer, O.
Heitzman, Maude M. .......................................... Cloverdale, O.
Riley, Okla L. ................................................ Lima, O.
Harrod, Ola V ................................................ Lima, O.
Hoover, Mary Ethel .......................................... West Carlisle, O.
Civil Engineering

Bender, Ernest A ........................................ Ada, O.
Davis, Wm. Seymour ..................................... Harrisburg, O.
Frye, V, A .................................................. Oak Harbor, O.
Hubler, L L .................................................. Youngstown, O.
McCown, B. E ............................................... Proctorville, O.
Storer, Amanda M. F ..................................... Indianapolis, Ind.
Wu, Hsi Liu .................................................. Canton, China

Electrical Engineering

Jones, Raphael ........................................... Braddock, Pa.
Edwards, Elmer ........................................... Newark, O.
Carmen, Ray K ............................................... Elmira, N. Y.

Law

Swart, Jacob ................................................ Dunn Station, Pa.

Business

Van Horn, Grant ........................................... Ada, O.
Long, Emmett E ........................................... Ada, O.
McClelland, Blanche ..................................... Rawson, O.

Public School Music

Pendleton, Effie ........................................... Hebron, O.
Vernon, Anna D ........................................... Cambridge, O.
Hickernell, Besse ......................................... Ada, O.
GRADUATES
COLLEGE OF LIBERAL ARTS

Classical

Philosophical

Scientific

English

NORMAL COLLEGE

Teachers
Larue, Cora .......... Bloomville, O. Williams, Louella .......... Wauseon, O. Ober, John .......... Bays, O.

COLLEGE OF ENGINEERING

Civil
Electrical
Ashley, J. M. ... Youngstown, O.  
Brubn, Harry L. ... Williams, W. Va.  
Belding, A. V. ... Fayette, O.  
Carlisle, George ... Luthersburg, Pa.  
Frankenberry, T. H., N. Liberty, O.  
Hughes, G. A. ... New Madison, O.  
Joseph, J. C. ... Luckey, O.  
Kerull, H. E. ... Brooklyn, N. Y.  
Meyer, H. J. ... Grand Junction, Colo.  
Nixon, C. G. ... Creswell, O.  
Neidich, J. ... Brooklyn, N. Y.  
Pereira, D. S. ... St. Paul, Brazil  
Roe, Chester ... St. Louisville, O.  
Roberts, Lloyd A. ... Ashtabula, O.  
Sells, H. J. ... Ada, O.  
Smith, Russell H. ... Kennerville, Pa.  
Turner, Floyd ... Ada, O.  
White, Richard L. ... Ada, O.  
Wright, H. H. L. ... Elmira, N. Y.  
Zimmerman, J. D. ... Butler, Pa.  
Johnston, J. C. ... Spring Run, Pa.  

Mechanical
Freeman, L. L. ... Detroit, Mich  
McCleary, G. M. W. ... Waynesburg, O.  
*Porter, Wade H. ... Ada, O.  
Reid, Paul H. ... DeGraff, O.  
*Deceased.

Sanitary
Marcano, Octavio ... Porto Rico

COLLEGE OF LAW
Ashcraft, Daniel L. ... Frazeyburg, O.  
Bond, D. Allen ... Belmont, O.  
Chorpenny, R. ... Uniontown, Pa.  
Carter, N. R. ... Wren, O.  
Cannon, H. ... Washburn, O.  
Doak, A. R. ... Fresno, O.  
Foist, C. R. ... New Milford, O.  
Hale, Lewis F. ... Belleville, O.  
Hachtel, F. W. ... Akron, O.  
Hill, Ada J. ... Deshler, O.  
Leech, L. S. ... Coshocton, O.  
Lake, L. P. ... Trinway, O.  
Marchand, Ray B. ... Alliance, O.  
McCann, A. L. ... Ada, O.  
Forney, T. G. ... Newcomerstown, O.  
Stanley, Joseph L. ... Wellston, O.  
Streck, L. H. ... Elmore, O.  
Tanner, Franklin D. ... Medina, O.  
Walker, W. J. ... Morristown, O.  

COLLEGE OF PHARMACY
Bradt, Ada Lee ... Freeport  
Blayney, Scott W. ... Alexandria, Pa.  
Brayman, John ... Pierpont, O.  
Brubaker, C. M. ... Bradford, O.  
Browns, G. A. ... Middlefield, O.  
Brinson, J. E. ... Watertown, N. Y.  
Borden, Fred L. ... Ada, O.  
Bryant, Guerdon ... Ada, O.  
Cole, A. C. ... Leipsic, O.  
Drum, L. E. ... Stryker, O.  
Deppew, George L. ... Minisins, Mich.  
David, Samuel East Liverpool, O.  
Emch, G. F. ... Woodville, O.  
Foulk, Herbert ... Bucyrus, O.  
Huff, Frank S. Jr. ... Chester, W. Va.  
Harvey, R. B. ... Ada, O.  
Hill, Ralph ... Ada, O.  
Ingles, Claire ... Racoon Island, O.  
Johnston, Paul ... Hicksville, O.  
Magee, Purl H. ... Waverly, O.  
McCready, Eva ... Byesville, O.  
Purvis, Harry ... Payne, O.  
Probert, Oliver W. ... Steubenville, O.  
Ross, H. A. ... Springfield, O.  
Serrano, A. G. Jr. ... Chiapas, Mexico  
Venrick, Clyde ... Payne, O.  
Van Fleet, D. L. ... Rockford, O.  
Woodward, N. L. ... Ada, O.  
Williams, C. E. ... Coshocton, O.  

COLLEGE OF COMMERCE
Business
Beightol, C. R. ... Sistersville, W. Va.  
Boley, Frank W. ... Deshler, O.  
Bush, Ethel ... Avondale, Pa.  
Critser, J. Thurman ... Bergholz, O.  

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Conlin, Chas. L. ..........Duquesne, Pa.          Myers, Lyman C. ..........Fostoria, O.
Garcia, Andris ..........Havana, Cuba            Smyth, Gay W. ..........Bergholz, O.
Hofer, Christ ..........Strasburg, O.            Sheffer, Elgie ..........Louisville, O.
Kanable, Rebecca ..........Oceola, O.            Shutter, W. C. ..........Ravenna, O.
Leavengood, Worth ..........Fresno, O.            Turner, L. C. ..........WHEELERSBURG, O.
Martin, Reed F. Terra Alta, W. Va.              Hare, Hal M. ..........Fincastle, O.
Myers, Harry H. ..........Ada, O.

COLLEGE OF EXPRESSION

Chapman, Freida F. ..........Plain City, O.         Pugh, Edna ..........Gomer, O.
Crabble, Floye ..........East Springfield, O.       Powell, Ida ..........Plain City, O.

PHYSICAL TRAINING

(Certificates)

Beasley, Lillis Olivia ..........Attica, Ind.

COLLEGE OF MUSIC

Voice

Horn, Iris Barr ..........Ada, O.                    Reynolds, Fanny Fern ..........Norwalk, O.

Organ

Degler, Leila Lucile ..........Ada, O.

Piano

Baldwin, Edna Oran ..........Cridersville, O.        Seidener, Uarda Hayse ..........Ada, O.

Cooper, Theo Ida ..........Carey, O.                Johnston, Elva Mary ..........Harrod, O.

SCHOOL OF FINE ARTS

Yambert, Fern ..........Sycamore, O.

Public School Drawing

Parrett, Zella Marie ..........Pool, Lucile ..........Upper Sandusky, O.

CONTINENTAL, O.

COLLEGE OF LIBERAL ARTS.

Classical

Juniors

Barnes, Lemass ..........Coshocton, O.              Voke, George ..........Paulding, O.
George, Wm. ..........Franklin, O.                  Vanorsdall, Alma ..........Fayette, O.
Brown, B. S. ..........Hardin, O.
### Unclassified

<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
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<tbody>
<tr>
<td>Beck, Waldo W.</td>
<td>Henry, O.</td>
</tr>
<tr>
<td>Black, F. L. R.</td>
<td>Richland, O.</td>
</tr>
<tr>
<td>Brunner, Emanuel G.</td>
<td>Cuyahoga, O.</td>
</tr>
<tr>
<td>Blue, H. T. O.</td>
<td>Hardin, O.</td>
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<tr>
<td>Brooks, L. M.</td>
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<td>Manahan, W. L.</td>
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<td>Miley, George M.</td>
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<td>Montgomery, Pearl</td>
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<td>Parker, John D.</td>
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<td>Palmer, Chas. E.</td>
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<td>Zeigler, Earl F.</td>
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<td>Secrest, Carl E.</td>
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<td>Schumann, F. H.</td>
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### PHILOSEOPHICAL

#### Juniors

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<tr>
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<tbody>
<tr>
<td>Burkholder, Elizabeth</td>
<td>Hardin, O.</td>
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<td>Kochenderfer, Grace</td>
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#### Unclassified

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<tr>
<td>Clark, Daniel J.</td>
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<tr>
<td>Combs, E. W.</td>
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<tr>
<td>Chandler, Anna</td>
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<td>Chandler, Ruth</td>
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<td>Foley, R. R.</td>
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<td>Freuh, Leo</td>
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<td>Hayes, Geo. L.</td>
<td>Erie, Pa.</td>
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<tr>
<td>Joe, Mary</td>
<td>New Haven, Conn.</td>
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<td>Jamison, Laura</td>
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<td>Kelbaugh, J. T.</td>
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<td>Moore, Russell O.</td>
<td>Somerset, Pa.</td>
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<td>Stone, R. E.</td>
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<td>Sell, Jesse F.</td>
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<td>Schamp, F. N.</td>
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<td>Taylor, E. A.</td>
<td>Iroquois, III.</td>
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<td>Thomas, Helen</td>
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<td>Yoeman, Olive</td>
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<td>Fox, Chas. L.</td>
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### SCIENCE

#### Juniors

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<td>Lake, Chester C.</td>
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<td>Patterson, M. A.</td>
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#### Unclassified

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Allen, Oscar</td>
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<tr>
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<td>Clapper, D. W.</td>
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<td>Conkle, W. E.</td>
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<td>Clav. Margaret</td>
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<td>Clark, P. F.</td>
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<td>Darnell, E. C.</td>
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<td>DeWolfe, F. H.</td>
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<td>Drake, L. N.</td>
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<td>Suber, A. O.</td>
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<td>Frederick, Howard A.</td>
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Folk, C. J. Hancock, O.
Fogle, C. T. Mercer, O.
Graham, H. Wayne Pickaway, O.
Griffing, A. C. Ashtabula, O.
Gleim, Sophia Scioto, O.
Harper, Arthur Jefferson, O.
Graham, Eltha Union, O.
Hinkle, E. G. Hardin, O.
Harbison, Chas. Butler, Pa.
Kusian, Gilbert Defiance, O.
Keith, J. A. Allen, O.
Lust, G. E. Crawford, O.
Lanker, P. T. Wyandot, O.
Loft, Cranton Greene, O.
Lonsinger, Cellia Coshocton, O.
Leathers, Chauncey Van Wert, O.
Martin, M. E. Preston, W. Va.
Mahaffey, D. W. Marion, O.
Melvin, F. E. Lawrence, O.
Murlin, H. E. Mercer, O.
Monroe, C. E. Guernsey, O.
Miller, H. L. Logan, O.
Pond, J. W. Paulding, O.
Portz, H. G. Coshocton, O.
Palmer, Ellen Morgan, Pa.
Keyes, W. L. Greene, Pa.
Reis, Caspar. Hardin, O.
Rogers, E. G. Fairfield, Conn.
Riley, D. P. Allen, O.
Sheridan, T. C. Lorain, O.
Soudler, W. H. Seneca, O.
Shaullis, Lloyd L. Somerset, O.
Smith, R. S. Mahoning, O.
Smith, Paul W. Hardin, O.
Smith, P. H. New Haven, Conn.
Swartz, Hazel Wood, O.
Sinkey, Lela Artice Licking, O.
Soner, M. B. Mercer, O.
Schnitzer, W. B. Stark, O.
Sullivin, T. W. Hardin, O.
Stauffer, Andy Allen, O.
Stackhouse, G. L. Stark, O.
Swiger, I. L. Harrison, W. Va.
Syster, H. N. Westmoreland, Pa.
Stoever, Dora Hardin, O.
Shaull, Lola Seneca, O.
Tuohy, Sylvester Paulding, O.
Herrman, Robert Perry, In.I.
Hastings, Jno. Hardin, O.
Haney, Bess Hardin, O.
Harvey, D. Crawford, O.
Horn, E. L. Madison, O.
Holloway, R. O. Lucas, O.
Johnson, C. G. Morgan, O.
Johnson, Catha Morgan, O.
Jameson, Clell Hardin, O.
Kneisley, Lee Hardin, O.
Knapenberger, G. H. Hardin, O.
Trevel, Morris Somerset, Pa.
Way, J. E. Hardin, O.
Williams, Leslie F. Blain, Pa.
Warlow, W. O. Brown, O.
Warner, C. A. Fairfield, O.
Wise, G. F. Darke, O.
Wharton, Clarence Guernsey, O.
Walker, Grover Auglaize, O.
Wilson, Howard S. Belmont, O.
Werle, O. H. Stark, O.
Yeasting, Galen Sandusky, O.
Zeigler, Harry T. Wood, O.

ENGLISH

Juniors

Owens, R. L. Clearfield, Pa.

Unclassified

Bedrosian, Kaharig Hardin, O.
Bricker, Weltha Williams, O.
Cunningham, Eva Delaware, O.
Davis, Stella Hardin, O.
Ewing, Fred Beaver, Pa.
Pfocht, Nova Auglaize, O.
Ford, Perry Putnam, O.
Gardner, David E., Jr. Scioto, O.
Gresham, H. L. Cuyahoga, O.
Getty, H. K. Indiana, Ky.
Gill, Panzie Hardin, O.
Harris, Zana Allen, Ind.
Hollett, Lucia E. Wyandot, O.
Koch, Clare F. Marion, O.
Kirtz, G. L. Hardin, O.
Lewis, Lenore Putnam, O.
McGuire, R. C. Hardin, O.
Mills, Chas. E. Tuscarawas, O.
Nichols, Ben Allen, O.
Olson, Alvin McKane, Pa.
Ponj, Dallas Paulding, O.
Rowan, Lucile Mercer, W. Va.
Sudlow, J. H. Hocking, O.
Solomon, G. H. P. Hardin, O.
Scheid, George W. Huron, O.
Stevey, Anna Auglaize, O.
Siffritt, Lucille Marion, O.
Sheets, Sarah Van Wert, O.
Williams, Leslie F. Blain, Pa.
White, W. R. Clay, Ky.
Wiseley, Zella Hardin, O.
Zambrans, Fernando Chiapas, Mex.

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NORMAL COLLEGE
Unclassified

Andrews, Charles .......... Mercer, O.
Andrews, Ralph .......... Mercer, O.
Allen, Norval L .......... Hardin, O.
Allen, Ora L .......... Hardin, O.
Andrews, Zeo .......... Allen, O.
Aksamit, Sara .......... Allen, O.
Andrews, Ethel .......... Allen, O.
Andrews, Maude .......... Allen, O.
Adams, Gertrude .......... Putnam, O.
Atrison, Mary .......... Greene, Pa.
Atkinson, Grace .......... Auglaize, O.
Adams, Sylvia E .......... Harrison, O.
Andrews, Mary .......... Allen, O.
Ackerman, Effie M .......... Shelby, O.
Bush, Archie .......... Lawrence, O.
Baker, Everett C .......... Monroe, O.
Butt, Carl .......... Licking, O.
Book,chas .......... Van Wert, O.
Birkhold, Marion .......... Paulding, O.
Birkhold, Earl .......... Paulding, O.
Bower, Ernest .......... Logan, O.
Black, Roy .......... Clinton, O.
Blyle, Herbert .......... Hardin, O.
Brown, Sterl C .......... Knox, O.
Bash, J. M .......... Hardin, O.
Bender, J. Chas .......... Coshocton, O.
Blocher, Mabel .......... Putnam, O.
Benson, Mary .......... Morrow, O.
Baker, Mary E .......... Seneca, O.
Barclay, Floy .......... Hancock, O.
Barber, Mae .......... Mercer, O.
Blasey, Elvina M .......... Wood, O.
Burkhart, Austa .......... Marion, O.
Burkhart, Iva .......... Marion, O.
Bowers, Vinnie .......... Hancock, O.
Barnett, Merlie M .......... Geen, O.
Beck, Mary .......... Muskingum, O.
Bassett, Lotta .......... Allen, O.
Black, Elizabeth .......... Hardin, O.
Blocher, Nellie .......... Clermont, O.
Bolton, Bessie .......... Mercer, O.
Burgess, Bertha .......... Ashtabula, O.
Billiter, Jessie .......... Summit, O.
Beery, Lola .......... Putnam, O.
Briggs, Blanche .......... Hardin, O.
Brucken, Herman .......... Shelby, O.
Bopp, Calvin .......... Hardin, O.
Breath, Floyd L .......... Wood, O.
Bloom, Wm .......... Wyandot, O.
Brown, Jos. B .......... Pickaway, O.
Bower, Saylor .......... Richland, O.
Bartley, Paul .......... Ashland, O.
Beall, D. Earl .......... Logan, O.
Baer, George .......... Greene, Pa.
Berryhill, Vada .......... Allen, O.
Beiler, Lois .......... Allen, O.
Baldinger, Clara .......... Marion, O.
Banning, Eva .......... Hardin, O.
Banden, Beryl .......... Wood, O.

Breedlove, Inez Marie .......... Champaign, O.
Bell, Clara .......... Licking, O.
Bolling, Fannie .......... Champaign, O.
Bowen, Ferne .......... Richland, O.
Cotner, C. W .......... Allen, O.
Collins, F. L .......... Van Wert, O.
Clantz, C. T .......... Allen, O.
Culleton, Arthur .......... Richland, O.
Curran, Isabel .......... Hardin, O.
Cook, Ollie .......... Fayette, O.
Cummins, Sarah .......... Hardin, O.
Couples, Vesta L .......... Hardin, O.
Coc, Dana G .......... Union, O.
Coury, Edward B .......... Huron, O.
Clark, Jno .......... Hardin, O.
Carrothers, Ella .......... Harrison, O.
Carroll, Cecile .......... Mercer, O.
Crites, Viella .......... Allen, O.
Conklin, Hazel .......... Delaware, O.
Cole, Jessie .......... Richland, O.
Cox, Ethel .......... Coshocton, O.
Crawford, Hazel .......... Putnam, O.
Cook, Minnie .......... Greene, Pa.
Dunstan, J. R .......... Paulding, O.
Dobbins, J. Edwin .......... Hocking, O.
Dellinger, John M .......... Van Wert, O.
Driscoll, Arthur .......... Clinton, O.
Dietzler, E. E .......... Allen, O.
Davis, Frank .......... Union, O.
Davis, D. O .......... Hardin, O.
Davidson, Fern .......... Wood, O.
Duer, Neva M .......... Miami, O.
Dague, Stella .......... Logan, O.
Davidson, Mary Elsie .......... Stark, O.
Dilly, Marie .......... Denver, Colo.
Dally, Opal .......... Hardin, O.
Day, Stella .......... Logan, O.
Dailey, Margaret .......... Ottawa, O.
Deleon, Florence .......... Shelby, O.
Datz, Bertha A. M .......... Franklin, O.
Dine, Ida .......... Mercer, O.
Dearbaugh, Beulah .......... Shelby, O.
DeBarr, Ina .......... Green, O.
Doty, Fern .......... Putnam, O.
Evans, O. R .......... Putnam, O.
Esehbach, R. A .......... Hancock, O.
Edgerton, Alice .......... Morgan, O.
Evans, Josephine .......... Allen, O.
England, R. D .......... Hardin, O.
Evans, Otho .......... Putnam, O.
Elwell, Maude .......... Ottawa, O.
Evanchek, Hetty .......... Wood, O.
Ford, Berin .......... Allen, O.
Flack, Herschel .......... Seneca, O.
Frontz, Leroy E .......... Seneca, O.
Fidler, L. B .......... Knox, O.
Fetter, Wesley .......... Mercer, O.
Fauror, Anna .......... Hardin, O.
Fritz, Lewis .......... Wyandot, O.
Kirkpatrick, Lela .......... Hardin, O.
Keisling, Tillie ............ Crawford, O.
Krohn, Mrs. Margaret E. .. Franklin, O.
Livingstone, Ralph .......... Wyandot, O.
Loomis, Errie .............. Allen, O.
Lugibihl, I. W. .......... Allen, O.
Leidy, E. E. .................. Mercer, O.
Lehman, Harvey .......... Erie, N. Y.
Lucas, Norma ................. Shelby, O.
Ludwig, Gladys ............... Allen, O.
Leedy, Nelle ................. Allen, O.
Loveland, Nelle .......... Huron, O.
Long, Mildred E. .......... Huron, O.
Lee, Ethel .................. Wyandot, O.
Lewis, Earl ................. Marion, O.
Lyle, F. M. ................. Huron, Mich.
Lust, M. E. .................. Crawford, O.
Lacey, Zelma ................. Hardin, O.
Law, Grace .................. Williams, O.
Lover, Clara ................. Allen, O.
Loomis, Ruby .................. Wood, O.
Loomis, Besie ............... Wood, O.
Louthan, Myrtle .......... Hardin, O.
Lehman, Rhea ................. Hardin, O.
Martin, Forest .............. Franklin, O.
Miller, Geo. B. .......... Montgomery, O.
Muckley, M. M. ............. Stark, O.
McWilliams, Durbin ............ Hardin, O.
McPherson, Lena .......... Allen, O.
Marfield, Paul ............ Marion, O.
McWilliams, Lula .......... Hardin, O.
Mitchell, Zella .......... Wood, O.
Mitchell, Bess ............... Hardin, O.
Mason, Monna ........ Ashtabula, O.
Miller, Nettie ............... Hardin, O.
Myers, Myrtle ............... Hardin, O.
Mowry, Madge .......... Van Wert, O.
Miller, Elma .............. Hardin, O.
Mapes, Mildred .......... Gueaga, O.
Meister, Estella .......... Fulton, O.
Miller, Flora D. .......... Carroll, O.
Myers, Blanche .......... Hardin, O.
Mertz, Roger ............. Auglaize, O.
Mitchell, Harlan L. ........ Franklin, O.
McKenzie, Gilson .......... Putnam, O.
Musselman, Nina E. .......... Paulding, O.
Moreland, Ben .......... Van Wert, O.
Messenger, N. D. .......... Allen, O.
McHenry, Dorothy Pearl ...... Crawford, O.
Mick, Florence .......... Wyandot, O.
Morris, J. B. ................. Union, O.
Musgrave, C. D. .............. Hardin, O.
McVay, Emery .......... Paulding, O.
Martin, Nina G. .......... Defiance, O.
Mealey, Anna E. .......... Putnam, O.
Miller, Mabel .......... Crawford, O.
Metzger, Ruth .......... Wood, O.
Mead, Eva Carey .......... Paulding, O.
Mellick, E. ................. Richland, O.
McCarthy, Zita M. .......... Paulding, O.
Major, Blanche .......... Hardin, O.
Krohn, .......... Hardin, O.
Miller, Nellie .......... Licking, O.
More, Grace E. .......... Allen, O.
Newcomb, Inez Williams, O.
Neill, Robert H. Putnam, O.
Outland, Vivien Richland, O.
Obermeyer, Edna Wood, O.
Pond, Omar Paulding, O.
Pond, Dallas Paulding, O.
Parret, L. S. Putnam, O.
Petty, Glenn Union, O.
Pugh, Marie Richland, O.
Pugh, Ethel Hardin, O.
Phelps, Hazel Union, O.
Powell, Laura E. Van Wert, O.
Palmer, Gladys Marion, O.
Penry, Allie Hardin, O.
Pratt, Glenola Auglaize, O.
Powers, Henrie Belle Delaware, O.
Quaintance, Hannah Wyandot, O.
Rickard, Chesleigh Allegheny, Pa.
Rice, Dale R. Mercer, O.
Reed, H. C. Hardin, O.
Rogers, H. W. Hardin, O.
Rish, Fred Hardin, O.
Rizzo, A. C. McKean, O.
Roop, Effie Lucas, O.
Roeder, Adeline Ottawa, O.
Schmid, Martha Auglaize, O.
Robinson, Mabel Champaign, O.
Roe, Emily Wood, O.
Reed, Arzella Ottawa, O.
Ruland, Nettie F. Ashtabula, O.
Reed, Stella Union, O.
Richardson, Waneeda Ottawa, O.
Stokes, F. W. Logan, O.
Stewart, Goldie Greene, Pa.
Stover, Bessie Allen, O.
Shannon, Clark Coshocton, O.
Spang, Paul Hardin, O.
Slack, S. A. Hardin, O.
Smith, Everett Morrow, O.
Strader, Clarence Logan, O.
Stemple, Mildred Morrow, O.
Snider, Bessie L. Perry, O.
Schneidmiller, Pauline Hardin, O.
Stacey, Bernice W. O.
Stamm, Lillie Knox, O.
Sawyer, Abbie Allen, O.
Smith, W. E. Hardin, O.
Stover, Daniel Allen, O.
Sellers, Victor M Allen, O.
Seif, Ralph Morrow, O.
Seif, Russell Morrow, O.
Seaton, Arden Hardin, O.
Shadley, Harold Hardin, O.
Smoyer, Paul Medina, O.
Scoles, Dot Allen, O.
Swank, Florence Westmoreland, Pa.
Stevan, Anna Auglaize, O.
Spriggs, Florence Paulding, O.
Snider, Rae Auglaize, O.
Sough, Flora Marion, O.
Smith, Esther Marion, O.
Schoenberger, Inez Wyandot, O.
Stine, Oliva Richland, O.
Tabor, Mason. O.
Tucker, C. F. Ashland, O.
Thompson, Earl Sandusky, O.
Thayer, I. D. Allen, O.
Temple, R. C. Union, O.
Terry, Winmer Van Wert, O.
Tabor, Geneva Hardin, O.
Tucker, Mary Ashland, O.
Tobias, Ethel Putnam, O.
Taylor, Vernice Seneca, O.
Tucker, Hazel Ottawa, O.
Vermilion, Ethel Licking, O.
Vollbrecht, Caroline Montgomery, O.
Vermilion, Irl Licking, O.
Van Orsdall, Albert Fayette, O.
Verma, Frank F. Paulding, O.
Van Orsdall, Alma Paulding, O.
Wollam, E. L. Madison, O.
Williamson, Harve Paulding, O.
Wyburn, Blanche Hardin, O.
Wilcox, Anna Franklin, O.
Weller, Margaret Montgomery, O.
Whiteside, Leora Seneca, O.
Washburn, Helen Jackson, O.
Wren, Clara Allen, O.
Watt, Besse E. Jefferson, O.
Wilson, W. D. Paulding, O.
Wilson, Homer Champaign, O.
Walker, B. F. Wyandot, O.
Way, O. W. Pike, O.
Welch, Lillian Licking, O.
Wolpert, Bertha Franklin, O.
Winkelman, Mille Putnam, O.
Wiley, Leila Crawford, O.
Wolcott, Nina Summitt, O.
Weaver, Velma Allen, O.
Warner, Alice Pickaway, O.
Young, Irene Seneca, O.
Weston, Leora Summit, O.
Robinson, Alonzo Logan, O.
Hammer, Lenna Hardin, O.
Judson, V. S. Richland, O.

**PREPARATORY**

Allen, Oscar Paulding, O.
Arthurs, Jos. P. Beaver, Pa.
Ater, Horace Pickaway, O.
Alins, W. L. Lawrence, O.
Allinder, D. A. Jr. Stark, O.
Allofs, A. N. Essex, N. Y.
Anderson, Robert Highland, O.
Anderson, Elizabeth Highland, O.
Broede, Ralph Seneca, O.

Barkley, Thos L. Ashland, O.
Bell, J. D. Washington, Pa.
Billheimer, C. R. Westmoreland, Pa.
Baird, H. E. Cuyahoga, O.
Bazelle, G. O. Wyandot, O.
Bailey, C. Auglaize, O.
Blossom, S. Cuyahoga, O.
Barger, A. H. Crawford, O.
Black, Howard Allegheny, Pa.
Catalogue for 1911-1913

Berryhill, J. E. ............ Green, O.
Bowen, Earl S. ....... Bergen, N. J.
Brown, L. B. .............. Hartford, Conn.
Burrus, Harvey ............. Mt. Pleasant, Pa.
Blough, Homer A. ......... Somerset, Pa.
Bailey, E. L. .............. Auglaize, O.
Byer, Hazel .......... Logan, O.
Bowers, L. L. ......... Tuscarawas, O.
Crosaman, Paul S. ......... Indiana, Pa.
Clarke, Don H. ....... Cuyahoga, O.
Cargo, Clarence .... Allegheny, Pa.
Conklin, C. T. .... Mahoning, O.
Cloyd, R. E. .... Huntington, O.
Christen, R. S. ........ Wood, O.
Chenowith, E. ......... Wood, O.
Cope, Lloyd ......... Jefferson, O.
Coffee, Ralph ......... Miami, O.
Carruthers, W. J. G. .... Logansport, N. J.
Culp, Eva .......... Logansport, O.
Cole, Allan G. ....... Harding, Conn.
DeGued, Kenneth ......... Union, O.
Dinger, Harry M. .... Clarion, Pa.
Decker, H. R. .......... Jefferson, O.
DeGroffen, G. M. ......... Wood, O.
Detzler, E. E. .......... Allen, O.
Deeds, Ross ......... Coshocton, O.
Drum, J. E. ............... Armstrong, Pa.
Diehl, Flossie ......... Darke, O.
Davidson, Fern ......... Wood, O.
Dragoo, Ruth ......... Brown, O.
Elkins, W. L. ......... Lawrence, O.
Ewing, J. Harold ......... Beaver, Pa.
Evans, Fred A. ......... Beaver, Pa.
Evans, Otis J. ......... Lewis, N. Y.
Ely, Don H. ......... Crawford, O.
Eicher, Homer ......... Fayette, O.
Fales, W. D. W. ......... Midland, Mich.
Fairless, B. F. ......... Stark, O.
Feasel, Fred ......... Seneca, O.
Flack, W. Steele ......... Gibson, In.
Floyd, Homer W. ...... Hocking, O.
Fulk, Chas. ............... Paulding, O.
Passe, Josie ......... Lucas, O.
Peght, Beissie ......... Cambria, Pa.
Gateswood, Stanley .... Galia, O.
Gresham, H. L. ......... Cuyahoga, O.
Gateswood, M. E. ......... Galia, O.
Geeley, Hubert ......... Williams, O.
Giffith, Geo. ......... Intraea, Pa.
Glover, John E. F. ....... Berkeley, Va.
Graham, H. W. ......... Pickaway, O.
Givens, Clinton ......... Monroe, O.
Crise, H. M. ......... Darke, O.
Haley, C. O. ......... Jay, Ind.
Hertsgaard, C. W. .... Lucas, O.
Higbie, M. E. ........ Wood, O.
Hewitt, Hugh ......... Ashatabula, O.
Hoffer, F. W. ......... Paulding, O.
Hagerty, Stanley ......... Fayette, O.
Hays, S. E. ......... Lawrence, O.
Harley, Norine ......... Darke, O.
Hanna, Evans ......... Hardin, O.
Hamilton, Irene ......... Mercer, O.
Hardesty, Harry ......... Paulding, O.
Hattery, Hela ......... Van Wert, O.

Heidy, James R. ........ Carroll, O.
Hamilton, James ......... Union, O.
Hagedorn, R. O. ......... Monroe, O.
Henry, E. N. ......... Brown, O.
Haney, Bess ......... Hardin, O.
Hyer, Gerald ......... Wood, O.
Jennings, H. L. ......... Hartford, Conn.
Jones, Nina Alva ......... Scioto, O.
Joseph, Esther ......... Wood, O.
Koch, Clare F. ......... Marion, O.
Kraus, Anthony ......... Wyandot, O.
Karpas, John .......... McHenry, Ill.
Kling, Otto I. ......... Mahoning, O.
Kling, Fred W. ......... Mahoning, O.
Kimbrel, Victor I. ....... Lorain, O.
Kelley, Cecile ......... Putnam, O.
Kerschner, Don ......... Henry, O.
Kile, Emma ......... Union, O.
Kirkham, Edna S. ......... Logan, O.
Lovell, Clarence ......... Hardin, O.
Larcomb, Chas. ......... Delaware, O.
Lepp, Harley ......... Morrow, O.
Long, Chas. N. ......... Somerset, Pa.
Lorenzen, Martin ......... Ottawa, O.
Lorenzen, Otto ......... Ottawa, O.
Ladd, Robert ......... Wood, O.
Laurence, Elsie ......... Milwaukee, Wis.
Longanecker, Mary ......... Green, Pa.
McKibben, Ernest ......... Darke, O.
Miller, R. C. ......... White, O.
Morgan, G. R. ......... Muskingum, O.
Miller, W. C. ......... Stark, O.
Mallow, Howard ......... Mahoning, O.
Mouser, Ray ......... Paulding, O.
McIntyre, Geo. ......... Crawford, O.
Miller, Fred ......... Hancock, O.
Miller, Geo. B. ......... Montgomery, O.
Morgan, P. B. ......... Cuba, O.
Mehler, John ......... Mercer, Pa.
Martin, Rose B. ......... Ottawa, O.
McCloskey, Ray ......... Van Wert, O.
McCloskey, Norval ......... Van Wert, O.
Millegan, H. H. ......... Brown, O.
Morton, H. W. ......... Hamilton, O.
McGuffey, Herschel D. ....... Hardin, O.
Martinsen, Wm. ......... Ottawa, O.
Mostoller, J. W. ......... Union, O.
Miller, Loring S. ......... Henry, III.
McNutt, Edith ......... Sandusky, O.
Mayer, Jennie .......... Lucas, O.
Moonem, Aloys ......... Crawford, O.
Neiswander, W. D. ......... Allen, O.
Neiswander, Leo ......... Allen, O.
Newell, Hunter ......... Fayette, Pa.
Nachtwich, Lawrence .... Darke, O.
O'Briant, C. C. ......... Union, O.
Orthwein, W. E. ......... Crawford, O.
Patrick, L. Roe .......... Hardin, O.
Peterson, F. G. ......... Hocking, O.
Piper, Archie ......... Mercer, O.
Phipps, Mort ......... Sandusky, O.
Quig, W. S. ......... Richland, O.
Richardson, Graham ......... Marion, O.
Rockey, J. F. ......... Union, O.
Ohio Northern University

Reed, J. F. ............. Gonzales, Texas
Rowe, Fred ............. Seneca, O.
Robinson, F. B. .......... Dutcher, N. Y.
Ramsdell, Blaine ........... Hardin, O.
Rhode, J. H. ............. Jefferson, O.
Ritchie, Tom H. ........... Paulding, O.
Ramas, Domingo C. .......... Cuba
Reese, Ruth B. ........... Hamilton, O.
Ritter, Laura ............ Cambria, Pa.
Sudlow, J. H. ............. Hocking, O.
Smith, Everett H. ........... Morrow, O.
Shull, Robert R. ........ Allen, O.
Salland, J. F. .......... St. Charles, Mo.
Shepperd, L. V. ........... Belmont, O.
Shippe, R. W. ............ Berland, W. Va.
Sponseller, Walter .......... Van Wert, O.
Schauwecker, H. C. .......... Wyandot, O.
Shaw, Howard L. .......... Lewis, N. Y.
Settlemyer, Graham .......... Auglaize, O.
Snider, Fred ............. Auglaize, O.
Shirley, D. C. B. .......... Fayette, O.
Stewart, Harry ............. Erie, Pa.
Steen, E. ............. Dunn, Wis.
Slater, C. S. ............... Fayette, Pa.
Sprang, Paul E. .......... Hardin, O.
Schlup, Emma ........ Wyanot, O.
Schliss, Stella .......... Osage, Okla.
Thomas, Cecil V. .......... Hardin, O.
Tressel, Ray .............. Hardin, O.

SPECIAL

Black, D. S. ............. Wood, O.
Berg, J. C. .............. Paulding, O.
Beeg, Wm. M. .......... Auglaize, O.
Burney, H. E. .......... Rensselaer, N. Y.
Bowersmith, Mabel .......... Hardin, O.
Cannon, Harry ............ Fayette, O.
Corwin, W. F. ........... Logan, O.
Deeds, Ross ............... Coshocton, O.
Grable, Margaret .......... Logan, O.
Hartwell, E. C. .......... Logan, O.
Hettler, Geo. A. .......... Lucas, O.
Heffner, Oscar E. .......... Lawrence, O.
Hatfield, W. H. .......... Hamilton, O.
Hurst, Harold .......... Ross, O.
Huff, Wilbert J. .......... Richland, O.
Kean, Geo. O. .......... Ashland, O.
Lash, Mac ................. Ashland, O.
Larcomb, Chas. .......... Union, O.

Leithauser, Albert .......... Henry, O.
Linkhart, Minnie ........ Putnam, O.
Linville, J. C. .......... Perry, O.
Lust, Willard H. .......... Crawford, O.
McMillen, Wheeler .......... Hardin, O.
Nelson, Datha Ruth .......... Jackson, O.
Park, F. H. ............... Coshocton, O.
Renner, W. O. .......... Summit, O.
Rank, John .......... Van Wert, O.
Stephenson, J. N. .......... Brown, O.
Smith, Vernon .......... Hardin, O.
Strong, R. W. .......... Hardin, O.
Shinaberry, Herman .......... Mercer, O.
Weston, W. E. .......... Marion, O.
Wight, Susie .......... Putnam, O.
Soarez, J. F. de Hasedo .......... Brazil
Lowe, Myrla .......... Hardin, O.
Delong, Thos. .......... Hardin, O.
COLLEGE OF ENGINEERING

Civil

Juniors

Allen, P. F. ........................ Mahoning, O.
Brown, C. Albyn ........................ Hartford, Conn.
Babcock, E. H. ......................... Hartford, Conn.
Bennett, R. W. ......................... Ashtabula, O.
Boesger, Geo. ......................... Cuyahoga, O.
Boestring, E. E. ....................... Defiance, O.
Clapp, D. F. .......................... Logan, O.
Carruthers, H. ......................... Hudson, N. Y.
Crawford, E. C. ....................... Beaver, Pa.
Chow, F. B. ............................ China
Cobbe, Richard ......................... Chautauqua, N. Y.
Carpenter, Geo. ....................... Shelby, O.
Disching, H. F. ....................... Ottawa, O.
Diehl, C. W. .......................... Trumbull, O.
Evans, W. I. ........................... Lacking, O.
Emory, C. R. ........................... Hennepin, O.
Frederickson, H. A..................... Saginaw, O.
Freeman, T. M. ....................... Lehigh, Pa.
Flaisher, Harry T. ................... Richland, O.
Jett, Daniel V. ....................... Pettis, Mo.
Frederick, H. ......................... Northampton, Pa.
Getty, H. K. ........................... Indiana, Ky.
Guinan, T. D. ........................ Ontario, N. Y.

Hazeltine, W. J. ..................... Bogota, N. J.
Hollenbeck, H. H. .................... Erie, N. Y.
Helmrick, Harry ...................... Tuscarawas, O.
Hemple, R. E. ......................... Trumbull, O.
Kaplin, Henry M. ..................... Kings, N. Y.
Klein, John ............................. McHenry, I.
Kurtz, Harry ......................... Mahoning, O.
Leavens, C. R. ........................ Marion, O.
Lehr, H. E. ........................... Dauphin, Pa.
Lunn, Harry H. ....................... Dutchers, N. Y.
Macdowell, L. ......................... Washoe, Neb.
Merry, L. D. .......................... Noble, O.
Mudge, E. O. .......................... Tioga, Pa.
Neidhart, W. J. ....................... Allen, O.
Pfeiffer, G. Frederick ................ Summitt, O.
Powell, John M. ...................... Lorrain, O.
Smith, G. H. ........................... Montgomery, Ind.
Sturm, Leo S. ......................... Monroe, Mich.
Smith, R. J. .......................... Butler, Pa.
Tuttle, C. S. .......................... St. Charles, Mo.
Warren, Albert ....................... Hardin, O.
Rosensteel, R. V. ..................... Westmoreland, Pa.

Unclassified

Anderson, Robert ...................... Highland, O.
Abel, Luther ......................... Owen, Ind.
Allinder, D. K., Jr. .................. Starke, O.
Base, Joseph ......................... Westchester, N. Y.
Beekwith, Geo. E. ..................... Columbia, N. Y.
Blackhurst, John ..................... Midland, Mich.
Bidle, John W. ....................... Wayne, O.
Baxter, John R. ..................... Hardin, O.
Borchers, Rupert F. ................... Montgomery, O.
Britton, Israel ....................... Essex, N. Y.
Barrell, H. L. ....................... Sandusky, O.
Benson, B. H. ......................... Cook, Ill.
Brule, Abundius A. ................... Brown, R. I.
Carr, Frank B. ....................... Hartland, O.
Chavarria, R. F. ..................... Costa Rica
Cornell, Harry ....................... Orange, N. Y.
Callender, Carl J. ................... Lake, O.
Chacom, Albert ....................... Kings, N. Y.
Davidson, Geo. M. .................... Stark, O.
Dobbins, H. C. ....................... Hardin, O.
Daubenspeck, L. L. ................... Sumner, W. Va.
Entress, H. V. ....................... Hartford, Conn.
Freeborn, Cornelius .................. Nassau, N. Y.
Petzler, Howard ...................... Ashland, O.

Gerber, Harry H. ..................... Wayne, O.
Gee, Geo. B. ........................ Grafton, N. H.
Griffith, George ..................... Indiana, Pa.
Geeseey, Hubert ..................... Williams, O.
Giffin, Frank M. ..................... Sandusky, O.
Hadsell, Wm V ....................... Berkshire, Mass.
Hyart, Roger ......................... Knox, O.
Haight, E. S. ......................... Addison, Vt.
Harper, L. A. ......................... Henry, O.
Humphreys, Albert ................... Cambria, Pa.
Heffner, Roy W. ....................... Van Wert, O.
Hampton, Thos ....................... Pueblo, Colo.
Jennings, H. L. ...................... Hartford, Conn.
Jury, Austin ......................... Highland, O.
Jennings, Walter ..................... Coshocton, O.
Jenkision, E. L. ...................... Canta Clara, Cal.
Jewell, C. Floyd ..................... Sullivan, Ind.
Kollefretth, H. A. ..................... Union, O.
Kirkham, Herbert M. ................. Logan, O.
Kirk, L. C. .......................... Columbiana, O.
Ketcham, Lacy ....................... Broome, N. Y.
Lovell, Clarence ..................... Hardin, O.
Leighinger, Chas. A. ................ Coshocton, O.
Locke, N. W. ........................ Fairfield, Conn.
Lee, C. Y. ............................ China
Lara, Ag. Perezdo .................... Mexico
Marshall, Chas. C. ................. Jefferson, O.
ELECTRICAL

Juniors

Alexander, R. M. .......... Hardin, O.  
Boesger, George .......... Cuyahoga, O.  
Barnacle, A. J. .......... Springfield, Conn.  
Billheimer, Frank M. ......... Westmoreland, Pa.  
Coons, Chas. A. .......... Wyandot, O.  
Dennis, R. E. .......... Pickaway, O.  
Dustman, A. G. .......... Trumbull, O.  
Fernandez, J. L. .......... Cuba  
Garling, S. E. .......... Fulton, O.  
Henry, Frank D. .......... Hardin, O.  
Hoffinger, Harvey H. ......... Ottawa, O.  

Unclassified

Arnold, R. C. .......... Monroe, O.  
Adams, R. B. .......... Allen, O.  
Anspach, Kent .......... Hardin, O.  
Allman, E. F. .......... Columbiana, O.  
Bull, G. H. .......... Miami, O.  
Brown, C. O. .......... Fairfield, O.  
Bricker, Ralph W. .......... Williams, O.  
Burnley, H. W. .......... Mercer, O.  
Brockman, Carl .......... Fremont, O.  

Sherrott, F. A. .......... Jefferson, O.  
Sullivan, J. B. .......... Rensselaer, N. Y.  
Saurer, D. Earle .......... Wayne, O.  
Shultz, G. R. .......... Paulding, O.  
Scubert, H. C. .......... Oneida, N. Y.  
Sandra, Francisco .......... Cuba  
Slater, C. S. .......... Fayette, O.  
Towne, Perry .......... Summitt, O.  
Torkahian, A. Shour .......... Turkey, Asia  
Van Sickel, Fred H. .......... Hardin, O.  
Willis, Wm. P. .......... Nassau, N. Y.  
Williams, Robert L. .......... Lorain, O.  
Whyte, Oswald R. .......... Steuben, N. Y.  
Watters, Wm. .......... Jackson, O.  
Wierman, B. W. .......... Richland, O.  
Bauhman, R. J. .......... Harlan, O.  
Davies, J. Lee .......... Medina, O.  
Hawkins, E. C. .......... Medina, O.  
June, A. O. .......... Allen, O.  
King, Wade S. .......... Hancock, J.  
Moore, Vernon .......... Morrow, O.  
Fairless, B. F. .......... Stark, O.  
Higbie, M. E. .......... Lucas, O.  

Johnston, J. W. .......... Allen, O.  
Liechtey, H. C. .......... Wayne, O.  
Lay, N. M. .......... China  
LePage, Frank M. .......... Cuyahoga, O.  
McEachron, Kail B. .......... Rensselaer, N. Y.  
Moore, J. W. .......... Steuben, N. Y.  
O'Grady, James H. .......... Cuyahoga, O.  
Pool, R. H. .......... Wyandot, O.  
Penquite, Pearl .......... Clark, O.  
Wharton, J. S. .......... Jefferson, O.  
Wineland, J. Earl .......... Hancock, O.  
Yambert, D. W. .......... Wyandot, O.  

Cornwell, Harry .......... Hardin, O.  
Culbertson, Frank .......... Adams, O.  
Calderwood, Walker .......... Darke, O.  
Cremeans, W. .......... Hardin, O.  
Doty, Lawrence F. .......... Fairfield, O.  
Downing, H. M. .......... Van Wert, O.  
Diag, Bartolo .......... Porte, N. Y.  
Essig, Herman L. .......... Erie, O.  
Franks, Taylor .......... Masy, Colo.  
Graver, J. W. .......... Ottawa, O.  

### MECHANICAL ENGINEERING

#### Juniors

<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Everhart, H. S.</td>
<td>Highland, O.</td>
</tr>
<tr>
<td>Hawke, M. R.</td>
<td>Licking, O.</td>
</tr>
<tr>
<td>Herrick, E. E. P.</td>
<td>New Haven, Conn.</td>
</tr>
<tr>
<td>Munoz, E. J.</td>
<td>Mexico</td>
</tr>
</tbody>
</table>

#### Unclassified

<table>
<thead>
<tr>
<th>Name</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angus, Nelson</td>
<td>Ottawa, O.</td>
</tr>
<tr>
<td>Averbach, J. E.</td>
<td>Allegheny, Pa.</td>
</tr>
<tr>
<td>Bodette, James</td>
<td>Lucas, O.</td>
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<tr>
<td>Bell, Clarence</td>
<td>Perry, O.</td>
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<tr>
<td>Baird, Harry H.</td>
<td>Stark, O.</td>
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<tr>
<td>Baker, C. E.</td>
<td>Essex, N. Y.</td>
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<tr>
<td>Brown, C. Allyn</td>
<td>Hartford, Conn.</td>
</tr>
<tr>
<td>Cranage, Ben</td>
<td>Trumbull, O.</td>
</tr>
<tr>
<td>Davis, Wm. R.</td>
<td>Chester, Pa.</td>
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<tr>
<td>Elliott, R. C.</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Fulkerson, Harvey</td>
<td>Green, O.</td>
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<td>Fletcher, E. J.</td>
<td>Stark, O.</td>
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<td>Frantz, Clair E.</td>
<td>Hancock, O.</td>
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<td>Heffner, Roy W.</td>
<td>Van Wert, O.</td>
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<tr>
<td>Laker, Claude</td>
<td>Remsallaer, N. Y.</td>
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<td>Morey, Jos. W.</td>
<td>Milwaukee, Wis.</td>
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### MINING

<table>
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<tr>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>McBreen, Gerald</td>
<td>Cambria, Pa.</td>
</tr>
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</table>

### MUNICIPAL AND SANITARY

#### Juniors

<table>
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<tr>
<th>Name</th>
<th>City, State</th>
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<tbody>
<tr>
<td>Fulkerson, Harvey</td>
<td>Green, O.</td>
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</table>

#### Unclassified

<table>
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<tr>
<th>Name</th>
<th>City, State</th>
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</thead>
<tbody>
<tr>
<td>Callaghan, R. T.</td>
<td>Jackson, O.</td>
</tr>
<tr>
<td>McCormick, T. N.</td>
<td>Erie, N. Y.</td>
</tr>
<tr>
<td>Newberry, Raymond</td>
<td>New London, Conn.</td>
</tr>
</tbody>
</table>
OHIO NORTHERN UNIVERSITY

ARCHITECTURE

Juniors

Whitfield, Patrick ............ China

Unclassified

Conlin, Chas. A .... Allegheny, Pa
Frederick, Howard F ........ Northampton, Pa

Hutson, C. W ........ Champaign, O
Mitcham, D. D .... Kershaw, S. C
Schoonover, H. D .... Butler, Pa

COLLEGE OF LAW

Juniors

Acker, H. W ........ Fulton, O
Baird, H. E ........ Cuyahoga, O
Bagby, R. V ........ Richland, O
Brown, L. B ........ Hardin, O
Baser, C. J ........ Fulton, O
Clark, P. E .... Washington, Pa
Cornwell, Harry ........ Hardin, O
Hewitt, Hugh .... Ashatabula, O
Klingler, T. J ........ Hardin, O
Kohn, Ralph .... Lucas, O
Malloy, Howard .... Coshocton, O
Moore, Guy ........ Allen, O
Reed, E. C ........ Pickaway, O
Alkins, W. L ........ Lawrence, O
Andrews, D. C .... Westmoreland, Pa
Bell, J. D .... Washington, Pa
Begg, Wm. M .... Kings, N. Y
Dickey, W. L ........ Highland, O
Deeds, Clyde .... Hancock, O
Elkins, W. L ........ Lawrence, O
Fales, W. D .... Midland, Mich
Fleming, J. R .... Van Wert, O
Harbison, Charlie .... Butler, Pa
Henniger, Ralph .... Sandusky, O
Holman, Merlin .......... Hardin, O
Edwards, H. M ........ Lawrence, O

Leonard, Millard .... Gallia, O
King, F. E ........ Hardin, O
Littleton, Chas .......... Hardin, O
McDaniels, Emmett .... Fayette, Pa
Meck, C. A ........ Crawford, O
Morgan, G. R ........ Muskingum, O
McDorman, Harry T .......... Clark, O
Moffett, Nate L .... Union, O
Ormsby, James .... Cuyahoga, O
Ostrander, John .... Cuyahoga, O
Peter, C. R ........ Seneca, O
Patchen, G. G .... Indiana, Pa
Robinson, A. C .... Scioto, O
Reebel, Gordon .......... Mahoning, O
Ramsfield, Blaine .......... Hardin, O
Royer, Lewis J .... Logan, O
Simpson, W. E .... Belmont, O
Smith, Vergon .......... Hardin, O
Shirey, D. C. B .... Fayette, Pa
Taft, M. C ........ Addison, Vt
Telban, Jno. Jr .... Washington, Pa
Wagner, James M .... Hamilton, Neb
Williams, Geo. W .......... Stark, O
Wallick, Roy ........ Hardin, O
Shepperd, L. V .......... Belmont, O

COLLEGE OF PHARMACY

Juniors

Aspinwall Chas ......... Berry, Mich
Bower, E. M ........ Marion, O
Booth, J. Madden .... Duvall, Fla
Barr, Harry L ........ Jefferson, O
Bryson, Morris V ...... Darke, O
Campbell, Gus F .... Athens, O
Clayton, Merle T .... Lorain, O
Grose, Ed. ........ St. Joseph, Ind
Good, M. M ........ Hardin, O
Green, Stewart .......... Allen, O
Hill Charlie H ........ Mercer, O
Hockaday, Wm. J .... Greenup, Ky
Haines, Robert .......... Green, O
Hamlan, Chas .... Jefferson, O
Kincaid, W. R .... Marshall, W. Va
Klimm, E. L ........ Greenup, Ky

Kelley, Otto .......... Lorain, O
Kinney, Ed .......... Union, O
Mastin, O. H .... Preble, O
Messiter, N. S .... Sullivan, N. Y
McCartney, R. W .... Trumbull, O
Miley, Clay .......... Guernsey, O
McCormick, Wm. H .... Knox, O
Pearce, Ernest W .... Lorain, O
Pease, Howard ........ Ashatabula, O
Plymale, Jack M .... Cabell, W. Va
Preston, Eugene .......... Hardin, O
Pocock, Lloyd A .... Crawford, O
Rull, Lewis E .......... Henry, O
Renshaw, Earl .......... Paulding, O
Reynolds, Lisle .......... Pattawatomie, Okla
Tumm, Omer W. Crawford, O.
Wertz, Howard Stark, O.
Winfeland, Harry O. Monroe, O.
Wagner, Lawrence P. Lorain, O.
Williams, L. T. Columbiana, O.

COLLEGE OF COMMERCE

Business

Acker, H. W. Fulton, O.
Ackerman, Wm. Marion, O.
Abrahamsen, Clare Cook, Ill.
Bowersmith, Maude Union, O.
Brown, Wayne Clearfield, Pa.
Clark, P. F. Washington, Pa.
Cleveland, Jno. D. Marion, O.
Clark, Grace Harding, O.
Dyer, W. L. Allen, O.
Davis, Lawrence Paulding, O.
Dunne, E. A. Union, O.
Davis, Winnie Paulding, O.
Ewing, J. Harold Beaver, Pa.
Ewing, Fred A. Beaver, Pa.
Eversole, Lillian E. Pickaway, O.
Garrett, Lotus V. Richland, O.
Fernandez, Antonio Cuba
Gifford, H. Newton Cuyahoga, O.
Hill, Mary Lawrence, O.
Halverson, Frank Clearfield, Pa.
Hornor, Harry Allen, O.
Hamilton, Ray Harding, O.
Hawkins, E. C. Medina, O.
Hill, Pierre Harding, O.
Hayes, Royal B. Knox, O.
Imms, Raymond Mahoning, O.
Jenkins, E. L. Santa Clara, Cal.
Jones, Gladys Harding, O.
Kirts, G. L. Harding, O.
Lingrel, Lawrence Logan
Lepp, Emma Morrow, O.
Molegno, Lewis Westmoreland, Pa.
Myers, Elva Seneca, O.
McMurdo, Geo. Somerset, Pa.
Monin, Ray Shelby, O.
Martin, M. E. Preston, W. Va.
Montgomery, R. E. Miami, O.
Michael, Oliver Monongalia, W. Va.
Mowry, O. D. Shelby, O.
Nelson, B. L. Richland, O.
Pierce, Lester E. Huron, O.
Phillips, Samuel Licking, O.
Perry, Irving S. McKean, Pa.
Perry, E. L. McKean, Pa.
Pearce, Bertha Franklin, O.
Russell, Lucile Hardin, O.
Reithmler, P. Indiana, Pa.
Rusher, Walter Hardin, O.
Schoonover, Merritt Hardin, O.
Schartzer, Scott Stark, O.
Tredway, H. R. Fulton, O.
Thompson, Marcella Hardin, O.
Walborn, N. M. Lake, O.
Williams, Raymond Mahoning, O.
Walkenshaw, Kyte Guernsey, O.
Williams, Ward Somerset, Pa.
Williams, Walter S. Clinton, O.
Weymer, C. B. Shelby, O.
Young, Arthur Logan, O.
Yeager, Guy U. Hardin, O.

Stenography

Arthur, Elizabeth Indiana, Pa.
Arthur, Sue Indiana, Pa.
Bilderback, Wayne Defiance, O.
Boley, F. W. Henry, O.
Bowersmith, Maude Union, O.
Bebb, Wm. Kings, N. Y.
Crumrine, Edith B. Stark, O.
Crumrine, Etta P. Knox, O.
Geyer, Bess Allen, Ind.
Graham, H. Wayne Pickaway, O.
Gifford, H. Newton Cuyahoga, O.
Hill, Mary Lawrence, O.
Haworth, Elizabeth Clinton, O.
Hill, Mrs. Jesse P. Henry, O.
Houser, Mrs. Edith Montgomery, O.
Haesecker, Ed. C. Hillsboro, Fla.
Hildebrandt, Harry A. Saginaw, Mich.
Lotz, Freda Harlin, O.
Lingrel, Lawrence Logan, O.
Lee, Albert Stark, O.
Lepp, Emma Morrow, O.
Mowry, O. D. Shelby, O.
Malloy, Howard Coshocton, O.
Martin, M. E. Preston, W. Va.
McDaniels, Emmitt Fayette, Pa.
Orahood, Niva Union, O.
Pollock, B. E. Columbiana, O.
Ross, Andrew ............... Paulding, O.
Ringer, S. A. ............... Warren, O.
Schumann, F. H. .......... Wyandot, O.
Smith, W. E. ............... Hardin, O.
Sharpe, Roy S. ......... Greene, Pa.
Scudder, Florence ....... Jackson, Mich.
Thorn, G. H. ... Monongalia, W. Va.

Van Horn, Myrtle ......... Hardin, O.
Weyrer, C. B. ............. Shelby, O.
Wallington, D. ............. Hardin, O.
Weber, Alta M ............. Jackson, O.
Young, Ory ............... Hardin, O.
Sidders, Auda M .............. Logan, O.

Ohio Northern University

Telegraphy

Hardesty, Harry ........ Paulding, O.
Brookhart, H. M. ...... Lancaster, Pa.
Koch, Clare F. ........ Marion, O.

College of Expression

Benson, Mary .................... Morrow, O.
Curl, Agatha ................. Hardin, O.
Davison, Alma ............... Richland, O.
Laser, Chas. F. ......... Richland, O.
Sampson, Clarice ......... Hancock, O.
Zeigler, Flossie .......... Putnam, O.
Beasley, Lillis .......... Fountaine, Ind.
Cramer, C. E. ............. Seneca, O.
Clark, P. F. ............... Washington, O.
Curran, Isabelle ........... Hardin, O.
Dodge, Cecile May ...... Union, O.
Dille, Marie ............ Denver, Colo.
Freuh, Leo ..................... Allen, O.
Joseph, Mary .... New Haven, Conn.
Kochenderfer, Grace ......... Ashatabula, O.
Lisle, B. R. ............... Hardin, O.
Laurence, Elseb ........ Milwaukee, Wis.

Loomis, Bessie .......... Wood, O.
Luft, Cora Belle ...... Hardin, O.
Marchand, R. B. .......... Stark, O.
Mitchell, Zella .......... Van Wert, O.
Mills, Lucille .......... Ashatabula, O.
Manship, Ruby .......... Van Wert, O.
O'Dell, Emma Dell ...... Hardin, O.
Roop, Effie ......... Lucas, O.
Shaffer, E. E. .......... Hardin, O.
Shwak, Florence .......... Westmoreland, O.
Schoenberger, Inez .. Wyandot, O.
Tway, Vonna .......... Madison, O.
Voke, George .... Paulding, O.
Worthington, Wm. .... Brown, Kan.
Weaver, Anna ........ Putnam, O.
Zeigler, Earl F. ......... Hardin, O.
Boots, Alvin E. ........ Brown, O.

College of Music

Voice

Anstley, Goldie .......... Logan, O.
Arthurs, Jos. P. ........ Beaver, Pa.
Bricker, Wetha ........ Williams, O.
Burnett, Elizabeth ...... Hardin, O.
Boots, Mrs. Rebecca .... Brown, O.
Brown, Mahel, E. ......... Hardin, O.
Bouvier, May .............. Pike, O.
Byer, Hazel .............. Logan, O.
Beal, Reuben ............ Crawford, O.
Brewer, Lois ............. Hardin, O.
Brettie, Margaret E. ....... Livingstone, N. Y.
Bell, Mrs. Chas. ......... Hardin, O.
Caskey, Blanche .......... Paulding, O.
Chandler, Dell ............ Wyandot, O.
Crabbie, Floye .......... Jefferson, O.
Crecelius, Mrs. A. A. ... Hardin, O.
Dinger, H. M. ............ Clarion, Pa.
Deaken, Ilma ............. Allen, O.
Edwards, Katherine ...... Hardin, O.
Ewing, Eugene C. ....... Hardin, O.
Folk, Elfa ................. Hardin, O.
Gott, Wm. R. ............. Mercer, O.
Gehman, R. W. .......... Champaign, O.
Heitzman, Alta .......... Putnam, O.
Hathaway, Helen .......... Williams, O.

Hewlett, Blanche .......... Hardin, O.
Hayden, Mrs. C. E. .... Hardin, O.
Hook, Carrie .......... Cameron, Sa.
Kennedy, Olive .......... Crawford, O.
Kray, C. C. .......... Mahoning, O.
Krant, Lillian .......... Hardin, O.
Lowry, Donna ............. Mercer, O.
Littleton, Chas. .......... Hardin, O.
Lewis, Lenore ............... Putnam, O.
Lutz, Freda .......... Hardin, O.
McLowell, Donald ......... Hardin, O.
McCoppin, Mrs. Ruby .... Hardin, O.
O'Dell, Emma Dell ...... Hardin, O.
Pool, Lucile .......... Wyandot, O.
Reed, Fenn ............... Pickaway, O.
Russell, Angelina ......... Hardin, O.
Ramsdell, Blaine .......... Hardin, O.
Reese, Ruth .......... Hamilton, O.
Stout, Mary Elva .......... Hardin, O.
Siffritt, Lucile .......... Marion, O.
Smith, Margaret .......... Hamilton, O.
Smith, Gwendale .......... Hardin, O.
Spar, Jos. D. .......... Hardin, O.
Steva, Anna ................. Auglaize, O.
Sprain, Goldie ............... Van Wert, O.
Sawyer, Ruby Katherine .......

Smith, Guy L ................. Paulding, O.
Tway, Vonna .................. Madison, O.
Tuttle, Minnie E ............. Hardin, O.
Wollam, Nora ................ Hardin, O.
Yoeman, Olive ............... Madison, O.
Bowersmith, Maud .......... Hardin, O.
Shaffer, E. E ............... Allen, O.

**Piano**

Ansley, Goldie ............... Loyal, O.
Auer, Gertrude Esther ...... Ottawa, O.
Black, Mrs. F. L. R. Richland, O.
Bowman, Jennie ............. Hardin, O.
Bedrosian, Kabariq ......... Hardin, O.
Bouvier, Margaret Pike ... Hardin, O.
Byer, Hazel .................. Logan, O.
Beasley, Lillie ............. Fountain, Ind.
Bollinger, Mamie ........... Champaign, O.
Boys, Nancy A .............. Somerset, Pa.
Burnette, Elizabeth ....... Hardin, O.
Chandler, Marie ............. Wyanjot, O.
Clay, Margaret ............. Mercer, O.
Crabbe, Floythe .......... Jefferson, O.
Chandler, Dell ............. Wyandot, O.
Cunningham, Isabel ......... Hardin, O.
Carrothers, Ella .......... Hardin, O.
Chivington, Jennie ......... Mercer, O.
Duer, Adol ........................ Miami, O.
Dirmeier, Leota ............. Hardin, O.
DeWolfe, Mrs. F. H. ....... Franklin, O.
Ewing, Eugene C ............ Hardin, O.
Freeman, Harold ............ Hardin, O.
Ferguson, Isabel, Westmoreland, Pa.
Forrey, E. Ruth ............. Madison, O.
Gooden, E. M ............... Cook, III.
Guider, Margaret .......... Allen, O.
Gee, Geo. B ................. Grafton, N.
Hathaway, Helen ......... Williams, O.
Hewitt, Blanche .......... Hardin, O.
Hayden, Dorothy .......... Hardin, O.
Hayden, Zeresh .......... Hardin, O.
Hill, Mrs. Jessie F ....... Henry, O.
Hartwell, Myrl ............. Hardin, O.
Hook, Carrie ................ Somerset, Pa.
Jones, Frances E, Cataraugus, N.Y.
Jones, Gladys ............ Hardin, O.
Jones, Ethel ................. Hardin, O.
Kneissley, Lee ............. Hardin, O.
Klinger, Margaret ......... Hardin, O.
Kelley, Cecile ............... Putnam, O.
Lowry, Donna ............... Mercer, O.
Montgomery, Pearl ....... Auglaize, O.
Montgomery, Josephine ... Auglaize, O.
Manship, Ruby ............... Van Wert, O.
Miller, Annarose .......... Hardin, O.
Mitchell, Zella .......... Hardin, O.
Moore, Florence .......... Hardin, O.
Montgomery, Ethel ......... Allen, O.
Morgan, Mary ............... Van Wert, O.
Mericle, Chloe .............. Allen, O.
Markwood, Cassie ....... Hardin, O.
Milnor, Mrs. Hazel ......... Hardin, O.
Martin, Nina G .............. Defiance, O.
Oelberger, Mrs. Phil ....... Wyanjot, O.
Olson Alven ................ McKeen, Pa.
O'Dell, Emma Dea ......... Hardin, O.
Pereira, Mrs. Gertrude .... Hardin, O.
Reed, Fern .................. Pickaway, O.
Snider, Margaret .......... Allen, O.
Sinkley, Lela Artice ...... Licking, O.
Swank, Esther ............. Armstrong, Pa.
Smith, Margaret .......... Hardin, O.
Stevenson, Ethel .......... Tioga, N.Y.
Storer, Warren .......... Hardin, O.
Smith, Harriett .......... Hardin, O.
Stith, Grace ............... Hardin, O.
Sheets, Sarah .......... Van Wert, O.
Smith, Esther .............. Marion, O.
Sullivan, J. H., Rennselaer, N.Y.
Sprain, Goldie ............. Van Wert, O.
Sawyer, Ruby Kathryn ...... Allen, O.
Smith, Guy L ............... Paulding, O.
Stith, Mrs. W. J .......... Hardin, O.
Tway, Vonna .............. Madison, O.
Spees, Mabel ............... Auglaize, O.
Wells, May ................. Hardin, O.
Welsh, Rhea ................. Hardin, O.
Williams, Leslie F ....... Blain, Pa.
Weaver, Anna .............. Putnam, O.
Weaver, Evelyn .......... Hardin, O.
Willis, Helen .............. Hardin, O.
Yoeman, Olive .............. Madison, O.
Yoder, Dwight .......... Hardin, O.
Zehri, Marie ............... Hardin, O.
Evans, Josephine .......... Allen, O.
Wengerd, Mrs. C. S .......... Hardin, O.
Donaghy, Kathleen ......... Hardin, O.
Barr, Harry L ............. Jefferson, O.
Moor, High ................ Lucas, O.
Winkler, Levan .......... Hardin, O.
Hull, Judith ................ Wood, O.

**Pipe Organ**

Horn, Iris B ................. Hardin, O.
Hook, Carrie ................. Somerset, O.
Jenner, Vesta ............... Hardin, O.
Smith, Paul V ............... Hardin, O.
Smith, Marguerite .......... Hardin, O.
Wengerd, C. S .............. Hardin, O.
Violin

DeWolfe, F. H. ............. Franklin, O.
Gorrell, Grace ............. Hancock, O.
Kelley, Ernest .......... Mercer, O.
Mitchell, Harlan I ........ Franklin, O.
Morris, J. B. .............. Union, O.
Martin, Rose B. .......... Ottawa, O.
Turney, Byron ............ Wyandot, O.
Begler, Ernest ........... Hardin, O.
Briker, Marie ............ Wyandot, O.
Hartwell, Hazel .......... Hardin, O.
May, Walter ............... Pickaway, O.
May, Virgil ............... Hardin, O.
Miller, Netel ............ Hardin, O.
Parrett, Edna ............. Putnam, O.
Shumaker, Ross ........... Somerset, Pa.
Smith, Merwin ............ Hardin, O.
Wengerd, Edgar .......... Hardin, O.

Harmony

Ansley, Goldie ............ Logan, O.
Byer, Hazel ................ Logan, O.
Caskey, Blanche .......... Paulding, O.
Chandler Dell ............. Wyandot, O.
Chandler, Noah F. ........ Wyandot, O.
Duer, Adol ................. Miami, O.
Dirmeyer, Lesta ........... Hardin, O.
Drake, Cora ............... Hardin, O.
Ehrnsberger Eva .......... Hardin, O.
Ferguson, Isabel, Westmoreland, Pa.
Folk, Elfa ................ Hardin, O.
Forrey, E. Ruth .......... Madison, O.
Gottschall, Rea .......... Hardin, O.
Gee, Geo. B. .............. Grafton, N. H.
Hathaway, Helen .......... Williams, O.
Jones, Ethel .............. Hardin, O.
Kennedy, Olive .......... Crawford, O.
Miller, Annarose .......... Hardin, O.
McDowell, Donald .......... Hardin, O.
Mitchell, Zella .......... Hardin, O.
Montgomery, Ethel ......... Allen, O.
May, Walter ............... Pickaway, O.
Marcano, Octavio .......... Porto Rico
Morgan, Mary .............. Van Wert, O.
Merricle, Chloe .......... Allen, O.
O'Dell, Emma Dell ......... Hardin, O.
Russell, Angelina .......... Hardin, O.
Smith, Paul V. .......... Hardin, O.
Sifrit, Lucile .......... Marion, O.
Smith, Margarette .......... Hardin, O.
Sawyer, Ruby Kathryn .... Allen, O.
Spees, Mabel ............... Auglaize, O.
Tway, Vonna ............... Marion, O.
Thompson, Marcella .......... Hardin, O.

Musical History

Ansley, Goldie ............ Logan, O.
Brown, Mabel E. ........ Hardin, O.
Byer, Hazel ................ Logan, O.
Caskey, Blanche .......... Paulding, O.
Chandler, Dell ............ Wyandot, O.
Drake, Cora ............... Hardin, O.
Ferguson, Isabel, Westmoreland, Pa.
Freund, Bertha .......... Hardin, O.
Hathaway, Helen .......... Williams, O.
Jones, Frances E. Cattaraugus, N. Y.
Jones, Ethel .............. Hardin, O.
McDowell, Donald .......... Hardin, O.
Marcano, Octavio .......... Porto Rico
O'Dell, Emma Dell ......... Hardin, O.
Parlette, Ruth .......... Hardin, O.
Smith, Margarette .......... Hardin, O.
Sifri, Lucile .......... Marion, O.
Smith, Esther .......... Marion, O.
Spees, Mabel ............... Auglaize, O.
Templeton, Cora F. .......... Hardin, O.

Theory

Drake, Cora ............... Hardin, O.
Freund, Bertha .......... Hardin, O.
Folk, Elfa ................. Hardin, O.
Forrey, E. Ruth .......... Madison, O.
Hathaway, Helen .......... Williams, O.
Miller, Annarose .......... Hardin, O.
Morgan, Mary .............. Van Wert, O.
Merricle, Chloe .......... Allen, O.
McDowell, Donald .......... Hardin, O.
Parlette, Ruth .......... Hardin, O.
Sifrit, Lucile .......... Marion, O.
Sawyer, Ruby Kathryn .... Allen, O.
Smith, Esther .......... Marion, O.
Templeton, Cora F. .......... Hardin, O.

Counterpoint

Ansley, Goldie ............ Logan, O.
Hartwell, Myrl .......... Hardin, O.
Kennedy, Olive .......... Crawford, O.
Miller, Annarose .......... Hardin, O.
### CATALOGUE FOR 1911-1913

#### SCHOOL OF FINE ARTS

**Oil Painting**

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beasley, Lillis</td>
<td>Fountaine, Ind.</td>
</tr>
<tr>
<td>O'Dell, Emma Dell</td>
<td>Hardin, O.</td>
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<tr>
<td>Weaver, Anna</td>
<td>Putnam, O.</td>
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<tr>
<td>Myers, Ola</td>
<td>Hardin, O.</td>
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<tr>
<td>Mason, Lutie</td>
<td>Ashtabula, O.</td>
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<tr>
<td>Brown, Mabel</td>
<td>Hardin, O.</td>
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<tr>
<td>Brown, Leah</td>
<td>Hardin, O.</td>
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<td>Myers, Myrtle</td>
<td>Hardin, O.</td>
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<td>Parrett, Zella</td>
<td>Putnam, O.</td>
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**Water Color**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Brown, Mabel</td>
<td>Hardin, O.</td>
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<tr>
<td>Pool, Lucile</td>
<td>Wyandot, O.</td>
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<td>Parrett, Zella</td>
<td>Putnam, O.</td>
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<tr>
<td>Mason, Lutie</td>
<td>Ashtabula, O.</td>
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<tr>
<td>Edgerton, Alice</td>
<td>Morgan, O.</td>
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<td>Reed, Fern</td>
<td>Pickaway, O.</td>
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<td>Bedrosian, Koharig</td>
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<td>Myers, Ola</td>
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<td>Steva, Anna</td>
<td>Auglaize, O.</td>
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<tr>
<td>Tway, Vonna</td>
<td>Madison, Va.</td>
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<td>Remick, C. R.</td>
<td>Hardin, O.</td>
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**China Painting**

<table>
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<th>Name</th>
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<tbody>
<tr>
<td>Weaver, Anna</td>
<td>Putnam, O.</td>
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<tr>
<td>Beasley, Lillis</td>
<td>Fountaine, Ind.</td>
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<tr>
<td>O'Dell, Emma Dell</td>
<td>Hardin, O.</td>
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<td>Smith, Rachel</td>
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**Public School Drawing**

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<td>Weaver, Anna</td>
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<td>Tway, Vonna</td>
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<td>Edgerton, Alice</td>
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<td>Bedrosian, Koharig</td>
<td>Hardin, O.</td>
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<td>Brown, Mabel</td>
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<td>Ashtabula, O.</td>
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**Special Sketching and Cartooning**

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<th>Name</th>
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<td>Remick, C. R.</td>
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**Unclassified**

<table>
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<th>Name</th>
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<tr>
<td>Brown, Marion</td>
<td>Ashtabula, O.</td>
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<td>Dobbins, Hazel</td>
<td>Hardin, O.</td>
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</table>

#### AGRICULTURE

<table>
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<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Buso, Poncio</td>
<td>Porto Rico</td>
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<tr>
<td>Guido, Charles</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Gehman, R. W.</td>
<td>Champaign, O.</td>
</tr>
<tr>
<td>Kinnear, Earl</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Klingler, C. V.</td>
<td>Hardin, O.</td>
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<td>Ludwig, Allen L.</td>
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College of Law

| Graduates | 20 | Undergraduates | 52 |

College of Pharmacy

| Graduates | 29 | Undergraduates | 41 |

College of Commerce

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College of Expression

| Graduates          | 4 | Undergraduates | 35 |
| Physical Training  | 5 |                |    |

College of Music

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Published in June, July, September, November, January, April and May by the Ohio Northern University, Ada, Ohio. Entered as second-class matter July 3, 1907, at the postoffice at Ada, Ohio, under the Act of Congress to July 16, 1894.