President's Copy.

OHIO NORTHERN UNIVERSITY

CATALOGUE

JANUARY 1916
Ohio Northern University Bulletin

New Series. ADA, OHIO, JANUARY, 1916 Vol. IX., No. 5.

This issue of the Bulletin gives information regarding courses of study for 1916, tuition-rates, cost of board and rooming, conditions of entrance, calendar, roster of names for 1915, and other matters of interest to prospective students.

A glance at the following pages will reveal to the old-time student of Ohio Northern the changes for the better that have taken place in material equipment, enlarged courses and elevated standards.

Ohio Northern's Mission

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 being to provide 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.

Time and Money Advantage

A school year at the Ohio Northern is forty-eight weeks in length. A three-year curriculum leading to the Bachelor's degree means 144 weeks of at least fifteen hours of recitations a week. This is the same time that is required elsewhere in four-year curriculums based on thirty-six weeks a year with a minimum of fifteen hours a week.

An Alumnus has figured that by completing a course in the Ohio Northern University, a student gains one year in time and one thousand dollars in money.

N. B. For special information address

THE SECRETARY OF THE UNIVERSITY, ADA, OHIO
CALENDAR
1916

March 14, Tuesday ................................ Spring Quarter Begins
May 26, Friday (8:00 P. M.) .................. College of Music Recital
May 28, Sunday, (10:00 A. M.) ........... Baccalaureate Sermon
May 28, Sunday, (8:00 P. M.) ............ Christian Association Address
May 29, Monday, (9:00 A. M.) ............. Field Sports
May 29, Monday, (2:00 P. M.) ............ Athletic Sports
May 29, Monday, (8:00 P. M.) ............ President's Reception
May 30, Tuesday, (8:00 A. M.) ............ Girls' Fete Champetre
May 30, Tuesday, (9:30 A. M.) ............ Military Contest
May 30, Tuesday, (10:00 A. M.) .......... Annual Meeting of Trustees
May 30, Tuesday, (12:00 M.) .............. Alumni Banquet
(Annual Alumni Business Meeting immediately after Banquet)
May 30, Tuesday, (2:00 to 5:00 P. M.) .... Society Reunions
May 30, Tuesday, (5:30 P. M.) .......... Military Dress Parade
May 30, Tuesday, (8:00 P. M.) .......... Choral Society Concert
May 31, Wednesday, (8:30 A. M.) .......... Class Day Exercises
May 31, Wednesday, (1:30 P. M.) ......... Commencement Address
May 31, Wednesday, (8:00 P. M.) ......... Military Cadet's Reception
June 6, Tuesday ................................ Summer Quarter Begins
June 6, Tuesday .............................. First Special Summer Term Begins
July 8, Saturday ............................... First Special Summer Term Ends
July 10, Monday ............................... Second Special Summer Term Begins
August 13, Friday ............................. Summer Quarter and Second Special
Summer Term ends.

SUMMER VACATION

September 11, Monday .................. Registration Day for 1916-17
September 12, Tuesday ................. Fall Quarter, 1916-17 Begins
September 26, Tuesday .................. College of Pharmacy Opens
November 29, Wednesday ............... Fall Quarter Ends
November 30-December 4 ............... Thanksgiving Recess
December 5, Tuesday ..................... Winter Quarter Begins
December 23-January 2 ................... Christmas Vacation

1917

March 1, Thursday .................. Winter Quarter Ends
March 6, Tuesday .................. Spring Quarter Begins
General Directions

Persons intending to enter the University, and desiring to arrange beforehand in regard to course of study, board and room, will address, "The University, Ada, Ohio."

The most satisfactory classification can be arranged at the opening of the year; however, students are admitted at the beginning of each quarter.

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

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

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, obtain a card of matriculation and arrange his work. After matriculation, on payment of the tuition fee, he is given a "classification card" which, when presented to the instructor in charge of any class, admits him to that class, provided he has finished the prerequisite subjects.

Rooming Houses for Women

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

Registration Days

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.

Requests for Credits

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

Each student is entitled to one copy of his credits; 50 cents will be charged for each additional copy.
If he desires a copy for presentation on entrance to another school, he will save time by having the Registrar mail it to the proper authorities.

Seal 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 Division 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 Hocking 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 the Mississippi from those flowing into the Great Lakes, Ada, with its population of three thousand, has an elevation above sea-level as high as any in the State, with healthful climate, sanitary conditions well guarded, and an abundant supply of excellent water from drilled wells. The town is unsurpassed in healthfulness and freedom from epidemics. Numberless forest trees line avenues and adorn premises, affording a delightful retreat during the warm summer months. The paved streets, hot and cold water plants, electric light and natural gas evidence the wide-awakeness of the citizens in the matter of public utilities and city improvements. Several years ago, by a vote under the "Beal Law," the saloons were banished, and Ada thrives under a "dry" regime.

Unique Features

The school year consists of forty-eight weeks, divided into four terms, designated, respectively, Fall, Winter, Spring and Summer Quarters. Instead of measuring time and work by Freshman, Sophomore, Junior and Senior years, credit is based on number of hours of class work done in each required or elected subject.

Students enter at any time (except in the College of Pharmacy), find their places where certificates or examination credits rank them, pursue studies as many terms as their plans and means allow, and are duly credited on the records with the work
done. 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 comaraderie of the students, a majority of whom are young people relying mainly on their own pluck and push.

Organization

**Collegiate**
1. The College of Liberal Arts
2. The School of Education

**Technical**
3. The College of Engineering

**Professional**
4. The College of Law
5. The College of Pharmacy
6. The College of Music
7. The College of Commerce
8. The School of Agriculture
9. The School of Expression
10. The School of Fine Arts

11. The Preparatory School
12. The Department of Military Instruction
### BOARD OF TRUSTEES

**Elected by the Conference**

<table>
<thead>
<tr>
<th>Initus</th>
<th>Exitus</th>
</tr>
</thead>
<tbody>
<tr>
<td>1899 HON. S. A. Hoskins, A. M.</td>
<td>Wapakoneta, 1916</td>
</tr>
<tr>
<td>1913 MR. Joseph H. Edwards</td>
<td>Leipsic, 1916</td>
</tr>
<tr>
<td>1911 MR. GEORGE E. Whitney</td>
<td>Marysville, 1916</td>
</tr>
<tr>
<td>1898 REV. D. H. Bailey, D. D.</td>
<td>Defiance 1917</td>
</tr>
<tr>
<td>1907 MR. S. A. Bowman</td>
<td>Celina, 1917</td>
</tr>
<tr>
<td>1914 REV. MARCELLUS B. FULLER, D. D.</td>
<td>Lima, 1917</td>
</tr>
<tr>
<td>1913 REV. WM. A. WIANT, D. D.</td>
<td>Springfield, 1918</td>
</tr>
<tr>
<td>1913 REV. JAS. R. COLLEY, D. D.</td>
<td>Piqua, 1918</td>
</tr>
<tr>
<td>1905 HON. J. H. CLARK</td>
<td>Marion, 1918</td>
</tr>
<tr>
<td>1914 MR. J. W. BOREN</td>
<td>Dayton, 1919</td>
</tr>
<tr>
<td>1914 REV. DANIEL McGURK, D. D.</td>
<td>Cincinnati, 1919</td>
</tr>
<tr>
<td>1914 REV. CYRUS M. VAN PELT, D. D.</td>
<td>Delaware, 1919</td>
</tr>
<tr>
<td>1914 MR. C. W. MOOTS, M. D.</td>
<td>Toledo, 1919</td>
</tr>
<tr>
<td>1910 MR. S. D. HAZLETT</td>
<td>Ada, 1919</td>
</tr>
<tr>
<td>1915 MR. H. E. MEYERS</td>
<td>Springfield, 1919</td>
</tr>
</tbody>
</table>

**Elected by the Alumni**

<table>
<thead>
<tr>
<th>Initus</th>
<th>Exitus</th>
</tr>
</thead>
<tbody>
<tr>
<td>1911 REV. WM. F. MCKEE, D. D.</td>
<td>Monongahela, Pa., 1916</td>
</tr>
<tr>
<td>1912 MR. WALTER ELLIOTT</td>
<td>Ada, 1917</td>
</tr>
<tr>
<td>1913 JOHN DAVISON, M. S., P. D.</td>
<td>Lima, 1918</td>
</tr>
<tr>
<td>1914 REV. AARON S. WATKINS, LL.D.</td>
<td>Van Wert, 1919</td>
</tr>
<tr>
<td>1910 REV. J. WESLEY HILL, D. D., LL.D., N. Y. City</td>
<td>1920</td>
</tr>
</tbody>
</table>

**At Large, Elected by the Trustees**

<table>
<thead>
<tr>
<th>Initus</th>
<th>Exitus</th>
</tr>
</thead>
<tbody>
<tr>
<td>1911 HON. HENRY CLEWS, PH. D., LL.D., N. Y. City</td>
<td>1916</td>
</tr>
<tr>
<td>1911 HON. JUDGE R. M. WANAMAKER</td>
<td>Columbus, 1916</td>
</tr>
</tbody>
</table>
Officers of the Board

S. A. Hoskins, President.
GEORGE E. WHITNEY, Secretary and Treasurer.

Standing Committees


FACULTY AND ADMINISTRATION OFFICERS

Henry Solomon Lehr, Ph. D., 404 Union.
President Emeritus.
A. B., Mt. Union College, 1871; A. M., 1873; Ph. D., University of Wooster, 1897.
Founder and President of Ohio Northern and Instructor in various subjects, 1871-1905. Assistant in organizing the Colleges at Winona Lake, 1904-1907.

Albert Edwin Smith, D. D., Ph. D., 502 South Johnson.
President (on the William W. Edwards foundation).
A. B., Ohio Wesleyan University, 1887; Ph. D., 1898; D. D., 1906.
President of Ohio Northern, 1905...

John Davison, M. S., Pd. D., 521 South Gilbert.
Vice President and Principal of University College.
B. S., Ohio Normal University, 1889; M. S., 1892; M. Lit., 1902; Pd. D., 1912.
Instructor in Lima College, 1895-1900; Professor of English Literature in Ohio Northern, 1900-1905; Superintendent Lima Public Schools, 1905-1915; Vice President and Professor of History, Ohio Northern, 1915...

Charles Byron Wright, G. S., 425 North Main.
Executive Secretary and Dean of College of Commerce.
Baldwin's Business Academy, 1888; B. Sten., Ohio Northern, 1891; G. S., 1892.
Instructor in Stenography, Business English and Correspondence, Ohio Northern, 1892-1903; Dean of College of Commerce and Corresponding Secretary, 1903-12; Executive Secretary, 1912...

Alfa Holmes, 310 South Main.
Registrar.

Henry Whitworth, A. B., 219 East Montford.
Professor of Latin and Dean of College of Liberal Arts.
A. B., Ohio Wesleyan University, 1877.
Principal Bellefontaine H. S., 1877-1882; Superintendent Bellefontaine Public Schools, 1882-1900; Instructor in Psychology, Ethics and Latin, Ohio Northern, 1900-1904; Professor of Latin, 1904...; Dean of College of Liberal Arts, 1910...

Richard Holmes Schoonover, A. M., B. D., 803 S. Main.
Professor of Greek, Hebrew and Church History. Principal of Preparatory School.
A. B., Northwestern Ohio Normal School, 1884; A. M., 1887; A. B., Ohio Wesleyan, 1888; B. D., Drew Theological Seminary, 1899.
Instructor in Greek and Latin, Ohio Normal University, 1886-1896; Professor of Greek, Hebrew, Church History and English Language, 1901...

**WILHELM CLAUDIUS GROTH, A. B., 122 West Montford.**

*Professor of Modern Languages.*

A. B. (Abiturium), German Gymnasium, 1882; Student in Kiel University, 1882-1884.
Instructor in Dayton Academy and English Training School, 1891-1899; Instructor in German and French, Ohio Normal University, 1900-1904; Professor of Modern Languages, Ohio Northern, 1905...

**LEONARD CRAIG SLEEMAN, PH. G., PH. C., 702 S. Gilbert.**

*Professor of Chemistry.*

Ph. G. Ohio Northern, 1905; Ph. C., 1906.
Instructor in Chemistry, Ohio Northern, 1906-1914; Professor of Chemistry, 1914...

**FRANK LEWIS BERGER, A. M., 222 West Center.**

*Professor of Physics.*

A. B., Ohio Northern, 1910; B. S., University of Chicago, 1914.
Instructor in Physics and Chemistry, Ohio Northern, 1911-1913; Student at Chicago University, 1913-1914; Professor of Physics, Ohio Northern, 1914...

**CHILDE HAROLD FREEMAN, B. S., 317 West Williams.**

*Professor of Rhetoric and English Literature.*

B. S., Ohio Normal University, 1901.
Principal of Ada High School, 1902-1907; Superintendent Ada Public Schools, 1907-1909; Professor of English, Ohio Northern, 1909...

**HARVEY EVERET HUBER, A. M., 220 South Main.**

*Professor of Biology and Geology.*

A. B., Ohio Northern, 1908; A. M., Yale University, 1912.
Assistant Instructor in Ohio Northern, 1907-1909; Teacher of Biology, Physics and Chemistry in Glenwood (Coto) H. S., 1909-1911; Laboratory Assistant in Biology, Yale University, 1911-1913; Professor of Biology and Geology, Ohio Northern, 1913...

**LAWRENCE LOUTHIAN, A. M., 220 South Main.**

*Professor of Political Science.*

Ph. B., University of Chicago, 1914; A. M., 1914.
Professor of History and Civics, Ohio Northern, 1914...

**WILLIAM HENRY TRAINUM, A. M., B. D., 207 West Ballard.**

*Professor of Psychology and the Social Sciences.*

A. B. (Class.), Dexter College, 1905; A. M., North Western University, 1907; B. D., Garrett Biblical Institute, 1907; A. B. (in Ed.)., Kirksville State Teachers' College, 1912.
Assistant in Hebrew and Psychology, Dexter College, 1905; Graduate Student in University of Chicago, summer quarters, 1905-1906; Professor of Greek and Biblical Literature, Johnson's Bible College, 1907-1908; Professor Biblical Languages and Exegesis, Christian University, 1908-1911; Assistant in Psychology and Science of Education, Kirksville State Teachers' College, 1911-1912; Graduate Student in University of Chicago, six quarters, 1912-1914; Professor of Psychology and the Social Sciences, Ohio Northern, 1914...

Arthur Butts, A. M., (Columbia),
Lecturer on International Relations.
(Summer Quarter, 1915.)

Beatrice Brown Davis, A. M.,
220 South Main.
Professor of History and Principles of Education, Educational Psychology, and Dean of the School of Education.
A. B., Ohio Wesleyan University, 1907; A. M., Ohio State University, 1912.
Principal, Sleepy Eye H. S., Minn., 1907-1908; Superintendent Public Schools, Lake Benton, Minn., 1908-1910; Superintendent Public Schools, Lake Crystal, Minn., 1910-1912; Superintendent Public Schools, Mareema, Minn., 1912-1914; Dean of School of Education and Professor of History and Principles of Education and Educational Psychology, Ohio Northern, 1914...

Carrie Adel Wilson, B. E.,
221 East Williams.
Instructor in Paidology, Principles of Teaching and Methods.
B. E., Ohio Northern University, 1908.
Instructor and Training Teacher, Ohio Northern University, 1914...

Leah Ascham, A. B.,
431 South Main.
Instructor in Algebra and Geometry.
A. B., Ohio Northern University, 1904.
Instructor in Findlay College, 1905-1908; Teacher in Carey High School, 1908-1912; Instructor in Algebra and Geometry, Ohio Northern University, 1912...

Walter Gray
Principal Model School.
(Summer Term)

Bertina R. Pettis
Instructor in Primary Methods
(Summer Term)

Anna M. Vaughan
Critic Teacher in Primary Grades
(Summer Term)
RHEA WELSH

Primary Construction Work
(Summer Term)

THOMAS JEFFERSON SMULL, ARCHIT., C. E., 301 South Main.
Professor of Civil Engineering and Dean of College of Engineering.
C. E., Ohio Northern, 1904; Archit., 1906.
Post-graduate Student at Lafayette College, Pa., 1904-1905; Professor of Civil Engineering and Architecture, Ohio Northern, 1905...

MRS. EVA MAGLOTT, A. M., C. E., 516 South Simon.
Professor of Mathematics.
A. B., Ohio Normal, 1878; A. M., 1881; C. E., 1911.
Student at Butler University, Ind., 1878-1879; Instructor in Mathematics, Ohio Northern, 1880...

CHARLES ADDISON MILLER, C. E., 308 East Lincoln.
Professor of Municipal Engineering
C. E., Ohio State University, 1907.
Assistant Engineer of Maintenance, C. C. C., & St. L. Ry., 1904-1906; Assistant Division Engineer, Chicago and North Western Ry., 1907-1910; General Contract work, 1910-1911; Professor of Engineering, Ohio Northern, 1911...

KARL BOYER McEACHRON, M. E., E. E., 712 S. Johnson
Professor of Electrical Engineering.
M. E., Ohio Northern, 1912; E. E., 1913.
With General Electric Co., Pittsfield, Mass., 1913-1914; Professor of Electrical Engineering, Ohio Northern, 1914...

LEWIS J. ROYER, B. C. S., 415 E. Lincoln.
Bookkeeping, Accounting and Commercial Law.
B. C. S., Ohio Northern, 1913.
Instructor in Sandusky Business College, 1913-15; Student atzanerian Art College, Columbus, summer term, 1913; At Bowling Green Business University, Ky., summer, 1915; Instructor in Ohio Northern, 1915—

EMMETT E. LONG, B. C. S., 621 South Johnson.
Commercial Arithmetic and Penmanship.
Student at Zanerian Art College 1909. B. C. S., Ohio Northern, 1911.
Instructor in Penmanship and Commercial Subjects, Ohio Northern
1907—.

GEORGE WILLIAM SCHEID, B. C. S., 414 South Main.
Business English, Stenography and Typewriting.
B. C. S., Ohio Northern, 1907; B. Sten., 1908.
Instructor in Ohio Northern, 1908—.

STRAWDER ARTHUR RINGER, B. C. S., 401 East Long.
History of Commerce, Salesmanship.
B. C. S., Ohio Northern, 1911.
Instructor in Dennison, O., H. S., 1911-1912; Principal, Department of
Commerce, Steubenville, O., H. S., 1912 (three months); Principal, College
of Commerce, Ohio Northern, 1912-15; Instructor in Salesmanship, 1915—.

JAY PAUL TAGGART, LL. B., 308 East Lincoln.
Professor of Law and Dean of College of Law.
LL. B., Ohio Northern, 1908.
Attorney-at-Law, 1908-14; Professor of Law, Ohio Northern, 1914—.

WILLIAM WESLEY RUNSER, LL. B., 120 West Buckeye.
Professor of Law.
LL. B., Ohio Northern.
Instructor in Ohio Northern, 1899-1904; Attorney-at-Law, 1904-1914;
Professor of Law, Ohio Northern, 1914—.

DAVID CHRISTIAN MOHLER, PH. G., 408 South Johnson.
Professor of Pharmacy and Dean of College of Pharmacy.
Ph. G., Ohio Northern, 1893.
Practical Druggist, 1893-1905; Instructor in Pharmacy, Ohio Northern,
1905—.

RUDOLPH RABER, PH. G., PH. C., 316 South Gilbert.
Professor of Materia Medica and Practical Pharmacy.
Ph. G., Ohio Northern, 1910; Ph. C., 1911.
Instructor in College of Pharmacy, Ohio Northern, 1911—.

ROYAL DELANEY HUGHES, A. B., 124 East Montford.
Professor of Voice and Harmony, and Dean of College of Music.
A. B., Monmouth College, Ill., 1910.
Graduate in Voice, Monmouth College Conservatory, 1907; Post-graduate
in Voice and Theory, 1907-1910; Assistant Instructor in Voice, 1907-1910;
Student of Theory. Oberlin Conservatory, summer, 1910; Teacher of Voice
and Head of Theory Department, Monmouth College Conservatory, 1910-12: Student of Voice in Berlin, summer, 1914; Dean of College of Music, Ohio Northern, 1912—.

EDWIN LAURENCE ALLEN, A. B., Sigma Phi Epsilon House.

Professor of Organ and Piano.
A. B., Monmouth College, Ill., 1910.
Graduate Monmouth College Conservatory of Music, 1907; Post-graduate, 1909-1911; Director of Conservatory of Music, Amity College, 1912-13; Student of Organ and Piano in Chicago, summers of 1913 and 1914; Professor of Organ and Piano, Ohio Northern, 1913—.

ALETA ROSE BOWERS, 707 North Main.

Instructor of Voice and Piano.
Graduate of the Ohio Northern University College of Music in Voice and in Piano, 1915.

GAIL WATSON, Lima, O.

Instructor in Violin.
Chicago Musical College, 1904-1907; Graduate under Hugo Heermann, 1907; Study with Stephen Suchy, Royal Conservatorium at Prague, 1911-1912; With Leopold Auer at St. Petersburg, 1912-1913.

PAULINE ABT, 226 East Montford.

Children's Piano Department.

BERTHA KING, 607 South Main.

Assistant in the Vocal Department.

MARY HELEN LEY, 221 East Williams.

Instructor in Fine Art.

RALPH BURL SIMON, B. S. (Agr.), 604 South Main.

Dean of College of Agriculture.
B. S. (Agr.), Ohio State University, 1912.
Instructor in Agriculture, Ohio Northern, 1915—.

MAJOR CLIFFE DEMING, A. M., 305 South Main.

Dean of the School of Expression.
Diploma of Graduation. O. N. U. Department of Oratory, 1899; A. B., Ohio Northern, 1900; Diploma of Graduation, Emerson College of Oratory, Boston, 1903; A. M., Ohio Northern, 1903.
Assistant Professor of Oratory and Physical Culture, Ohio Northern, 1899-1902; Dean of College of Oratory, 1903-1905; Dean of School of Expression, Ohio Northern, 1915—.

-------------------------------

Domestic Science.
LIEUTENANT RAY CORSON HILL, U. S. A.,
Commandant. Instructor in Military Science.

West Point. Commandant. Ohio Northern, 1914—

RUTH CARLOTTA SOUDER, A. B.,
Assistant in English.
A. B., Western College for Women, 1913.
Assistant in English, Ohio Northern, 1915—.

ROBERT DUKES WRIGHT,
Assistant in Chemistry.

HAROLD DURBIN BAILEY,
Assistant in Rhetoric.

CARRIE LOIS SCHROCK,
Assistant in History.

JAMES BRAKES, JR.,
Assistant in Metallurgy.

PINKNEY PAUL BREWER,
Assistant in Cement Laboratory.

JOSEPH HAMILTON HILL,
Assistant in Mathematics.

DAVID B. GERTLER,
Assistant in Mathematics.

RICHARD M. GIVEN,
Assistant in Architecture.

LELA ARTICE SINKNEY,
Librarian.

FLO L. CRONBAUGH,
Stenographer.

JOHN DEXTER TEMPLETON,
Chief Custodian of Buildings.

OLIVER GILBERT,
Assistant Custodian of Buildings.
Faculty Organization

Dr. A. E. Smith, Chairman.

R. H. Schoonover, Secretary.

Alfa Holmes, Registrar.

Committees

Administration: Professors Whitworth, Wright, Smull,
Mohler, Taggart, Dr. Davison, Dr. Smith.

Agriculture: Professors Simon, Huber, Wright, Smull.

Athletics: Professors Smull, Sleesman, Long, Miller, Deming,

Catalog: Professors Whitworth, Wright, Dr. Smith.

Editing: Professors Wright, Freeman, Groth, Miss Holmes.

Entrance: Professors Whitworth, Freeman, Smull.

Finance: Professor Wright, Miss Holmes, Dr. Smith.

Girls' Welfare: Dr. Davison, Mrs. Magill, Miss Wilson, Miss
Holmes, Miss Archam, Miss Lepe, Miss Bowers.

Graduation and Degrees: The Deans and Principal of Pre-
paratory School.

Library: Professors Freeman, Trainum, Schoonover, Davis,
Louthian, Dr. Davison.

Literary Societies: Professors Ringer, Chun, Raabe.

Loan Fund: Professors Whitworth, Wright, Dr. Smith.

Military: Professors Schoonover, Thomas, Royer, Rooster.

Scholarship: Professors Huber, Miller, Allen, Whitworth.

Student Publications: Dr. Davison, Professor Whitworth.

Summer School: Professors Davis, Wright, Berger, Freeman.

Dr. Davison.
Historical Sketch

On August 14, 1871, in a three-story brick building erected on the campus where the Lehr Memorial now stands, the Northwestern Ohio Normal School, with Henry Solomon Lehr at its head, was formally opened "for the instruction and training of teachers in the science of education, the art of teaching and the best methods of governing schools."

In the fall of 1875 the Northwestern Normal School conducted at Fostoria, Ohio, was consolidated and incorporated with the Northwestern Ohio Normal School at Ada.

A limited number of subjects other than academic were offered in the courses of instruction from the very start; but from time to time, as patronage demanded, the following departments were added: Music, Commercial, Telegraphic, Fine Art, Stenography, Engineering, Military, Law and Pharmacy.

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

The school was under private control from the outset until September 1898, when the owners sold to the Central Ohio (now the West Ohio) Conference of the Methodist Episcopal Church the real estate, personal property and equipment belonging to the school.

Under the new administration, as fast as existing contracts permitted, the departments, theretofore semi-independent, were reorganized under one management, and the respective heads, designated deans, were placed on salary instead of commission. At the same time instruction in the main school was made departmental, with the head teacher in each department director thereof.

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

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

At their meeting in the spring of 1913, the Trustees changed
the length of the "term" from ten weeks to twelve weeks, making the year four "quarters" in length instead of five "terms" as before. The minimum requirement for the bachelor degrees was fixed at one hundred and eighty term hours, equivalent to one hundred and twenty semester hours. The Preparatory School was also reorganized and placed in charge of a Principal.

Since the school came into the control of the Conference, one of the four buildings then standing has been moved to another site and the interior thoroughly remodeled; two have been completely dismantled and one destroyed by fire. In their stead there have been erected four substantial structures with modern equipment.

**Location and Buildings**

The **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.

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

In the northeast angle of the campus is located **Brown Memorial**, soon to be fitted up for a gymnasium and armory and an assembly hall for social functions and the like.

**Pharmacy Hall**, in the northwest angle, especially arranged and equipped for the College of Pharmacy, contains also the spacious assembly room of the Adelphian Literary Society.

Just outside, southwest of the quadrangle, is **Music Hall** with its assembly room, offices and private practice rooms, cozy and convenient.
While all the buildings contain attractive, well-arranged rooms, lighted and heated from the University's central steam heating and electrical lighting plant, the Lehr and Hill buildings especially, are thoroughly modern in their appointments and sanitary equipment, and are fire-proof.

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

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and the latest conveniences. In the general chemical laboratory are one hundred and twelve lockers with first class outfits, including all apparatus necessary for thorough individual work. The physical laboratory has ample accommodation for more than one hundred and fifty students, with abundant apparatus for individual experimentation in preparatory physics. Steps are already taken to greatly increase the equipment for laboratory work in college physics.

The Pharmaceutical and Dispensing Laboratories, occupying the entire basement of Pharmacy Hall, are supplied with modern apparatus and desk arrangement; the equipment affording every facility for thorough individual work in practical chemistry and the various pharmaceutical preparations. The equipment includes a complete outfit for gold and silver assaying and other metallurgical work. In the "specimen room" is an interesting exhibit of all the crude drugs of materia medica, a complete line of U. S. P. chemicals, a fine case of salts and alkaloids, and another of biological specimens, such as serums, antitoxins, and the like.

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geo-
logical 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. For illustration in anatomy a human skeleton and structural models of various organs are at hand. All persons interested in the cause of education are kindly invited to make donations of specimens—geological, mineralogical, zoological, botanical, historical, Indian relics—to the University. Specimens labeled with the name of the donor will be placed on exhibition.

Library

The library, so greatly damaged by the fire two years ago, is now located in spacious and well-lighted quarters in Lehr Memorial.

The University's most urgent need, just now, is increased library facilities. The departments of history, literature, sociology, economics and philosophy especially suffered from the fire. Any contributions of libraries and single volumes practically serviceable in these and the other fields of learning will be gratefully received and acknowledged. Those desiring to make donations and not knowing just what would meet the need, kindly communicate with the heads of departments concerning the matter.

Recently through the generosity of friends, valuable additions have been made, notably to the law department, including the American Digest System and Lawyer's Reports Annotated, both series.

Steps are now being taken to secure library funds, and it is hoped that within a short time Ohio Northern will have a library equipment fully adequate to the most efficient collegiate instruction.

Athletic Field

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

University Farm

The University possesses a tract of land within a block and a half of the campus, containing 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 organized in part 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.

Rooms, Boarding and Home Comforts

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

Good board in private families costs from $1.75 to $2.75 a week, and furnished rooms, two in a room, 60 cents to $1.25 each a week.

The town is lighted with electricity; coal is the chief fuel, and many houses are heated by hot-air furnaces, gas, or with hot water from the city heating plant.

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

Aid to Students

Loan Fund. The Board of Education of the Methodist Episcopal Church lends money to members of that church taking a regular course in school, who have been in attendance long enough to merit a recommendation from the Faculty. No interest is charged if the debt is paid within five years from the time of leaving school, but a payment of $5.00 each year must be made
on the principal, after the applicant quits school. The only security required is a recommendation from a quarterly conference. Loans are made at the beginning of each quarter. Application should be made two weeks before the opening of the quarter and no applicant can be received later than the close of the first week of the quarter. The maximum amount allowed to each applicant is $50 a year.

Scholarships. The University has received through generous donors four scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students.

The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University. They are as follows:

1. The J. T. Cunningham Scholarship, by M. E. Cunningham, Mrs. L. A. Cunningham, and George T. McCoppin, Ada, O.

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

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

4. The Justin Brewer Scholarship, by Justin Brewer, Ada, Ohio.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies. This contest is one of the attractive features of Commencement week.

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

Mr. George F. Getty, '79, offers $15 and $10 prizes annually to the members of the Philomathean Literary Society winning honors in debate.
Hon. S. A. Hoskins, Columbus, O., offers $15 and $10 prizes for two years to the members of the Franklin Literary Society winning honors in debate.

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

Student Societies and Activities

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

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

The Intercollegiate Debating Club arranges for and engages in debates between Ohio Northern and other institutions. Membership is open to any one interested in the object of the club, irrespective of department. The selecting and coaching of debaters for any inter-collegiate contest is in charge of a faculty committee chosen by the club.

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

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

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.

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

Band and Orchestra. The Military Department has an organized band of thirty-five pieces, which meets in Lehr Auditorium for practice one hour each day. Besides playing at military events the band frequently accompanies the athletic teams on their inter-collegiate trips. Concerts are given each term.

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

Clubs. A number of live, social and professional clubs are supported by the students, among which the following are prominent:

Der Deutsche Verein, organized each year by the students interested in German. The work is linguistic and literary in character, a special feature of each program being the the conversationstunde on some topic calling out the language of business and social life. English is tabooed at the club meetings.

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

Several “State” clubs, have been formed for mutual cheer and help, and to keep in sympathetic touch with affairs and events of their respective states.
A number of live departmental associations are maintained.

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

The Northern Review, managed by students, is a breezy weekly devoted to university movements and campus doings, and promoting the interest of students and school.

ATHLETICS. College teams in baseball, football, basketball, and track athletics are maintained. Interdepartmental, inter-class and intersociety sports are also encouraged.

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

A fee of $1.00 per quarter is charged each student for the support of Athletics and Intercollegiate Debating Club. No fee is charged for the Summer Quarter. Upon the payment of this fee, the student receives a ticket of admission to all intercollegiate Athletic and Debating events free of charge.

Military Drill Compulsory

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

The United States Government requires compulsory drill as a condition to furnishing equipment and assigning a Commandant.

Discipline

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

All students will be received or dismissed at the discretion of the President and Administrative Committee.

**Moral and Religious Culture**

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

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

Convocations are held each school day, except Monday, from 8:00 to 8:30 a.m. The aim of which is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together into one assembly the students of the several Colleges to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the College of Music and Expression.
EXPENSES

Matriculation

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

Tuition Rates

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

For one quarter, (12 weeks), in advance .................. $14.00
For two quarters, in advance .................................. 27.00
For three quarters, in advance .............................. 40.00
For four quarters, in advance .............................. 52.00

In the College of Engineering and College of Law:
For one quarter (12 weeks), in advance .................. $16.00

In the College of Pharmacy:
Tuition for 32 weeks (including drugs, chemicals and all laboratory and athletic fees), in advance ............... $78.00

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

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

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

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

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

Laboratory Fees

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

PREPARATORY AND COLLEGE. Inorganic Chemistry I. and II., per quarter, $4.00; all others, $5.00. Preparatory Physics, $2.50; College Physics $3.00. Biology, Botany, and Zoology, each $2.00. Physiology, $ .60
ENGINEERING. Plane Surveying, Field Engineering, Railroad Engineering, Mechanical Engineering, each $2.50; Electrical, $3.00. Cement Laboratory, $1.00. Machine Shop, $1.00.

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

A fee of $4.00 is charged for use of typewriter twelve weeks, one hour a day; two hours per day, twelve weeks, $6.00. All who pay the above fees are entitled to free use of the Burroughs Adding Machine. Others are charged $1.00.

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

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

Special Examination Fee
A fee of $2.50 is charged for giving a special examination in any subject not taken with the class, and a student is limited to one special examination per quarter.

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

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

Refunding
Tuition is refunded only in case of protracted sickness. No tuition will be refunded for the first half of the quarter. If in school longer than a half quarter, the student will be charged at the weekly rates of the department in which he is enrolled. Fractional weeks are counted as full weeks. Receipts are not transferable.
COLLEGE OF LIBERAL ARTS

FACULTY

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

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

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

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

WILHELM CLAUDIUS GROTH, A. B.,
French, German, Spanish.

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

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

FRANK LEWIS BERGER, A. B.,
Physics.

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

LAWRENCE LEROY LOUTHIAN, Ph. B., A. M.,
Political Science.

JOHN DAVISON, M. S., Ph. D.,
History.

HARVEY EVERT HUBER, A. M.,
Biology, Geology.

HARRY VANNORSDALL,
Assistant in Botany.

ROBERT DUKES WRIGHT,
Assistant in Chemistry.
ADMISSION

General Remarks

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

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

The applicant must present credentials duly made out and signed by the proper official of the school from which he comes, and showing in detail (1) the text book used in each subject, (2) the amount completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University" and enclosing a self-addressed, stamped envelope.

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 to 4 units</td>
</tr>
<tr>
<td>Greek</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>Latin</td>
<td>2 to 4 units</td>
</tr>
<tr>
<td>German</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>French</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>Spanish</td>
<td>1 or 2 units</td>
</tr>
<tr>
<td>History</td>
<td>1 to 4 units</td>
</tr>
<tr>
<td>Civics</td>
<td>½ unit</td>
</tr>
<tr>
<td>Economics</td>
<td>½ unit</td>
</tr>
<tr>
<td>Adv. Arithmetic</td>
<td>½ unit</td>
</tr>
<tr>
<td>Algebra</td>
<td>1 or 1 ½ units</td>
</tr>
<tr>
<td>Geometry</td>
<td>1 or 1 ½ units</td>
</tr>
<tr>
<td>Plane Trigonometry</td>
<td>½ unit</td>
</tr>
<tr>
<td>Physics</td>
<td>1 unit</td>
</tr>
<tr>
<td>Physiology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Biology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Agriculture</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1 unit</td>
</tr>
<tr>
<td>Botany</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Geology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Astronomy</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>*Bookkeeping</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>*Commercial Law</td>
<td>½ unit</td>
</tr>
<tr>
<td>*Stenography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>*Shop-work</td>
<td>1 unit</td>
</tr>
<tr>
<td>*Freehand Drawing</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>*Commercial Geography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>*Domestic Science</td>
<td>1 unit</td>
</tr>
<tr>
<td>*Music</td>
<td>½ or 1 unit</td>
</tr>
</tbody>
</table>

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

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

Scope of Requirements in English

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

II. 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, Scott and Denny's, or Lockwood and Emerson's elementary composition and rhetoric.

III. English Classics for 1916-1919. (A) A thorough study resulting in the knowledge of the subject matter, form and structure of one unit of each of the following groups:

Group I: Drama. Shakespeare's Julius Caesar, Macbeth, and Hamlet.

Group III. Oratory. Burke's Speech on Conciliation with America; Macaulay's Speech on Copyright and Lincoln's Speech at Cooper Union; Washington's Farewell Address and Webster's First Bunker Hill Oration.

Group IV. Essays. Carlyle's Essay on Burns, with a selection from Burns' Poems; Macaulay's Life of Johnson; Emerson's Essay on Manners.

(B) For general reading and composition work, ten units, selected from the following groups, two from each group:

Group I. Classics in Translation. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XVI., XVII.; the Iliad, with the omission, if desired, of Books XI., XIII., XIV., XV., XVII., XXI.; Virgil's Æneid. The Odyssey, Iliad, and Æneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

Group II. Shakespeare. Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

Group III. Prose Fiction. Defoe's Robinson Crusoe, Part I.; Goldsmith's Vicar of Wakefield; either Scott's Ivanhoe, or Scott's Quentin Durward; Hawthorne's House of Seven Gables; either Dickens' David Copperfield, or Dickens' Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

Group IV. Essays, Biography, Etc. Bunyan's Pilgrim's Progress, Part I.; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book, Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden, or Huxley's Autobiography and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's Inland Voyage and Travels with a Donkey.

Group V. Poetry. Palgrave's Golden Treasury (First Series). Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's Vision of Sir Launfal; Scott's Lady of the Lake; Byron's Childe Harold, Canto IV., and Prisoner of Chillon; Palgrave's Golden Treasury (First Series) Book IV.

Admission to Advanced Standing

Applicants from other colleges, seeking for advanced standing, must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college, bearing his name and of the issue current at the time of his admission to that college. Credit for advanced standing must be secured within the first and second quarters of the student's residence.

The Committee on Admission reserves the right of rejecting subjects foreign to the college curriculum.

COLLEGIATE COURSES

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

1. Agriculture.
2. Astronomy.
5. Chemistry.
7. Economics.
8. English.
10. Greek.
11. History.
12. Latin.
15. Physics.
16. Philosophy.
17. Political Science.
18. Psychology.
19. Social Sciences

Schedules

From the courses offered in the departments named above, two three-year schedules are arranged, consisting of prescribed and elective courses and leading to the degrees of A. B. and B. S.
These schedules are arranged with regard to their general cultural value, which is the chief end of collegiate study leading to the bachelor degrees.

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

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

In making up his program of studies for any year, the student must give precedence to the prescribed courses, and in the order in which they are designated in the schedules.

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

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

- English .................................................. 18
- Foreign Language .................................... 15
- History ................................................ 9
- Mathematics ......................................... 5
- Chemistry ............................................ 15

Psychology ........................................... 9
Political Science .................................... 9
Sociology .............................................. 9
English Bible ......................................... 10
Biology 9 or Physics ............................... 12

Partial List of Electives

In addition to the courses herein offered, candidates for degrees are allowed to present credits from the College of Commerce, Law, Music, the School of Expression or the School of Education as follows:

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

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

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

Oratory—Oratory, 10 hours.

1. Leading to the Degree of Bachelor of Arts.

The subjects, distributed by years and terms as shown in the schedule following, are to be taken, as far as possible, in the order indicated.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Rhetoric I.</td>
<td>Survey of English</td>
<td>Sociology I.</td>
</tr>
<tr>
<td>Western Europe I.</td>
<td>Poetry</td>
<td>American</td>
</tr>
<tr>
<td>Chemistry I.</td>
<td>Psychology I.</td>
<td>History I.</td>
</tr>
<tr>
<td>Latin</td>
<td>Government and Politics I.</td>
<td>Life of Christ</td>
</tr>
<tr>
<td></td>
<td>Biology I. or Physics IV.</td>
<td>Municipal Gov't I. or History of</td>
</tr>
<tr>
<td></td>
<td>Elective 3 or 2</td>
<td>Philosophy I.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective 1</td>
</tr>
<tr>
<td>College Rhetoric II.</td>
<td>Survey of English</td>
<td>Sociology II.</td>
</tr>
<tr>
<td>Western Europe II.</td>
<td>Prose</td>
<td>American</td>
</tr>
<tr>
<td>Chemistry II.</td>
<td>Psychology II.</td>
<td>History II.</td>
</tr>
<tr>
<td>Greek, German or French</td>
<td>Government and Politics II.</td>
<td>Municipal Gov't II. or History of</td>
</tr>
<tr>
<td></td>
<td>Biology II. or Physics V.</td>
<td>Philosophy II.</td>
</tr>
<tr>
<td></td>
<td>Elective 3 or 4</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td>Psychology III.</td>
<td>Sociology III.</td>
</tr>
<tr>
<td>Western Europe III.</td>
<td>Government and Politics III.</td>
<td>American</td>
</tr>
<tr>
<td>Chemistry III.</td>
<td>Biology III. or Physics VI.</td>
<td>History III.</td>
</tr>
<tr>
<td>Greek, German or French</td>
<td>Poetics</td>
<td>Municipal</td>
</tr>
<tr>
<td>French</td>
<td>Elective 3 or 2</td>
<td>Government III.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td>Greek, German or French</td>
<td>Economic II.</td>
</tr>
<tr>
<td>Plane-Trigonometry</td>
<td>Elective</td>
<td>Ethics</td>
</tr>
<tr>
<td>Greek, German or French</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total: 99
2. Leading to the Degree of Bachelor of Science.

The subjects, distributed by years and terms as shown in the schedule following, are to be taken, as far as possible, in the order indicated.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Rhetoric I.</td>
<td>Survey of English</td>
<td>Sociology I.</td>
</tr>
<tr>
<td>3</td>
<td>Poetry</td>
<td>3</td>
</tr>
<tr>
<td>Western Europe I.</td>
<td>Psychology I.</td>
<td>American History I</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry I.</td>
<td>Government and</td>
<td>Life of Christ</td>
</tr>
<tr>
<td>5</td>
<td>Politics I.</td>
<td>5</td>
</tr>
<tr>
<td>German or French</td>
<td>Biology I. or</td>
<td>Municipal Gov't and</td>
</tr>
<tr>
<td>5</td>
<td>Physics IV.</td>
<td>Functions or Hist.</td>
</tr>
<tr>
<td></td>
<td>3 or 4</td>
<td>of Philosophy I.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 or 2</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>College Rhetoric II.</td>
<td>Survey of English</td>
<td>Sociology II.</td>
</tr>
<tr>
<td>3</td>
<td>Prose</td>
<td>3</td>
</tr>
<tr>
<td>Western Europe II.</td>
<td>Psychology II.</td>
<td>American History II</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry II.</td>
<td>Government and</td>
<td>Municipal Gov't and</td>
</tr>
<tr>
<td>5</td>
<td>Politics II.</td>
<td>Functions or Hist.</td>
</tr>
<tr>
<td>German or French</td>
<td>Biology II. or</td>
<td>of Philosophy II.</td>
</tr>
<tr>
<td>5</td>
<td>Physics V.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 or 4</td>
<td>Apostolic Age</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>3 or 2</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Western Europe III.</td>
<td>Psychology III.</td>
<td>Sociology III.</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry III.</td>
<td>Government and</td>
<td>American History III</td>
</tr>
<tr>
<td>5</td>
<td>Politics III.</td>
<td>3</td>
</tr>
<tr>
<td>German or French</td>
<td>Biology III. or</td>
<td>Municipal Gov't and</td>
</tr>
<tr>
<td>5</td>
<td>Physics VI.</td>
<td>Functions or Probs</td>
</tr>
<tr>
<td></td>
<td>3 or 4</td>
<td>of Philosophy</td>
</tr>
<tr>
<td></td>
<td>Economics I.</td>
<td>3 or 2</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Literary Criticism</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>German or French</td>
<td>Economics II.</td>
<td>Ethics</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Plane Trigonometry</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Examinations

Mid-term examinations are held at the discretion of each professor. Final examinations are held on Wednesday and Thursday of the last week of each quarter, except in the Spring Quarter, when they fall on Thursday and Friday of the eleventh week. 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.

The following is the system of grades:

A .......................... 90—100  D  .................. conditioned.
B .......................... 80—  90  E  .................. failed.
C ..........................  70—  80

The letter D means that the grade has been withheld because the work of the course has not been fully completed.

E means that the student receives no credit whatever for the course.

Graduation.

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

DESCRIPTION OF COURSES

Agriculture

Professor Simon.

1. Agriculture I. A general course covering the important points in soils, soil fertility, farm crops and horticulture. This course is designed for those expecting to teach the subject, and consists of both laboratory and class room work. Credit, five hours.

2. Agriculture II. A continuation and extension of the preceding course, dealing especially with the many phases of animal husbandry. Credit, five hours.

3. Agriculture III. A continuation and extension of Course II., covering the essential points of rural sociology and farm management, and laying special stress on methods of teaching agriculture. Credit, five hours.
Astronomy
Mrs. Maglott.

1. Descriptive Astronomy. A study of the fundamental facts of astronomy and of the methods of modern astronomical research. The text-book study is supplemented by lectures, lantern slides and photographs made at various observatories. The classes are required to spend from one to two hours a week in laboratory work, consisting of tracing on globes the path of the sun, of problems with the celestial globe, and star plotting on prepared maps. The treatment is non-mathematical, and the course is open to all students having had Preparatory Algebra. Credit four hours. First Quarter.

2. Practical Astronomy. This course is intended for students of astronomy and engineering, and those desiring to take a civil service examination for positions in U. S. Coast and Geodetic Survey.

It consists of theory and practical determinations or time, latitude, azimuth with the transit instrument and sextant. Open to all students having credit for Course 1. Credit four hours. Third Quarter.

Biblical Literature
Professor Trainum.

1. Old Testament History I. and II. A survey study of the history of the Hebrew people as presented in the Old Testament from the period of the conquest and establishment in Canaan to the Maccabean struggle and the close of the Old Testament history. The course embraces a preliminary sketch of the patriarchal period, with a more detailed study of the conquest, the period of the Judges, the united and the divided kingdoms, the exile, the revival of Judah and the beginnings of Judaism. Five hours. Winter and Spring Quarters.

2. Life of Christ. Constructive studies in the Life of Jesus. The aim of the course is to enable students to construct their own "Life of Christ" in a true historical perspective. To this end the entire gospel history is studied in a connected way, especial attention being given to the most important political and social features of New Testament times and to the interpretation of critical passages. Five hours. Fall Quarter, 1916.
3. Christianity in the Apostolic Age. This is a constructive study of Christianity from its inception to the close of the Apostolic Era. As far as possible the student is led to construct his own story of the development of primitive Christianity. The study follows in the main the outline of the book of Acts, but the Epistles are also used in so far as they reflect conditions of life and thought during the period. Five hours. Winter Quarter, 1916-17.

Either courses 1, or 2, and 3 will remove the requirements for graduation.

Biology

Professor Huber and Assistant.

The courses develop most naturally if the sequence is followed as indicated. Should the student find it necessary to depart from this sequence as outlined for Botany and Zoology, the instructor in charge must first be consulted in regard to proposed changes. Laboratory periods are two to three hours in length. Two to three hours in laboratory count as one hour. A laboratory fee of two dollars is charged in all courses except where otherwise stated. The fee covers the use of compound microscope and accessories, reagents, materials and equipment.

1. General Biology of Plants. Three hours. Fall quarter.

The above courses, constituting a year's work, are introductory to all biological study and designed to acquaint the student with the fundamental biological principles of the living organism. In Course 1 such topics are treated: cell structure and physiology; tissue differentiation; food manufacture by the green plants; economic importance of bacteria, yeasts and molds; methods of reproduction; evolution. Course 2 is given to the study of biological facts as evidenced in the animal kingdom. Course 3 is a study of human physiology, emphasizing the general functions of the body. Hygiene, sanitation and prevention of disease are given attention. Two hours lecture and recitation; three hours laboratory.

These courses constitute a year's work in general zoology. Representative types form the basis for the study of structure, relationships, development and distribution. Economic importance is given consideration. Prerequisites: Courses 1, 2 and 3. Two hours lecture and recitation; three hours laboratory.


These courses constitute a year's work in general botany. Beginning with the lowest forms of plant life and proceeding to the highest, a careful study is made of the structure, development and evolution of plants as illustrated by selected types. Prerequisites: Courses 1, 2 and 3. Two hours lecture and recitation; four hours laboratory. (Courses in botany are omitted during 1916-1917).

10. Ecology of Plants. A systematic study of the local flora with special attention to the study of plants in relation to their environment. Illustrated lectures, laboratory and field work. Prerequisites: Botany I., II., and III., or equivalent, and Geology I. Credit four hours. Summer Quarter, 1916.

11. Dendrology. A laboratory and field course designed to acquaint the student with the trees and shrubs represented in the local flora, in both the winter and summer conditions. Lectures upon structure, classification, uses, and distribution. Schaffner's Field Manual of Trees is used as a key. Spring Quarter. Credit three hours.

12. Histological Technique and Biological Methods. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Students will become familiar with the use of the microtomes and methods of hand sectioning; the principles and methods of imbedding, staining and mounting. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Persons desiring this course will notify the instructor several weeks in advance. Course limited to ten students. Laboratory fee to be fixed. Lecture and recitation two hours; laboratory six to eight hours. Prerequisites: Courses 4, 5, 6, 7, 8 and 9, or equivalent. Credit three hours. Summer Quarter, 1917.

Upon demand Plant Physiology may be offered during Summer Quarter, 1916, instead of Ecology of Plants. Credit four hours.
Chemistry

Professor Sleesman and Assistant.

1. General Inorganic Chemistry I. (Elementary). This course is intended for students who have not had preparatory chemistry. Text: Bartley or McPherson and Henderson. Prerequisites: Preparatory Physics. Three hours lecture and recitation; four hours laboratory. Credit five hours. Each quarter.

2. General Inorganic Chemistry II. (Non-Metals). This course offers a thorough study of the non-metallic elements and their several combinations. Text: Bartley or McPherson and Henderson. Prerequisites: General Chemistry I. and Preparatory Algebra I. Three hours lecture and recitation; four hours laboratory. Credit five hours. Each quarter.

3. General Inorganic Chemistry III. (Metals). This is a continuation of Course 2, taking up the metals and their compounds. Three hours lecture and recitation; four hours laboratory. Credit five hours. Each quarter.

4. Qualitative Analysis I. Text: Strieglitz. Prerequisites: General Chemistry I., II., III. Credit five hours.

5. Qualitative Analysis II. This course is a continuation of course 5. Credit five hours.

6. General Organic Chemistry I. A thorough study of the structure and constituents of the carbon compounds; the hydrocarbons and carbohydrates with their many addition and substitution products. Text, Remsen. Credit five hours.

7. General Organic Chemistry II. This is a continuation of Course 6. Laboratory. Credit 5 hours.

8. Quantitative Analysis. 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. Text, Muter. Credit five hours.

9. Special Chemistry. 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. Credit five hours.
Christian Religion.

Professor Schoonover.

1. 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. Five hours. Spring quarter.

2. Church History. A survey of the origin, growth, spread and influence of Christianity on the nations of the world. Five hours. Fall quarter.

Economics

(See The Social Sciences)

English

Professor Freeman and Assistant.


9. College Rhetoric II. Exposition and argumentation. Practice in note taking, paragraphing, abstracting and brief making. One long expository theme and one argument are required. Three hours. M. W. F. Winter and Summer Quarters. (Scott and Denney’s Paragraph-Writing, Scott and Zeitlin’s College Readings in English Prose.)

10. Argumentation. A detailed study of the principles of argumentation. There is practice in brief making and debating. Two arguments are required. Prerequisite: Course 9. Three hours. T. W. F. Winter Quarter. (Foster).

11. The Short Story. A study of the technique of the short story; reports on required readings, and practice in story writing. Two hours. T. Th. Summer Quarter.

12. Survey of English Literature. The purpose of this course is: (1) to acquaint the student with the leading works of English literature; (2) to trace the development of English literature; (3) to prepare the student for an intensive study of the great English writers. Two quarters (a) Poetry; (b) Prose. Three hours. M. W. F. Fall and Winter Quarters. (Crawshaw, Manly).
13. Poetics. This course includes: (1) a study of the forms of poetry—the epic, the lyric, the drama, and their subdivisions; (2) the structure of poetry, including the stanza, the verse, accent, tone color, quantity, pauses, alliteration, assonance, and rime; (3) a study of blank verse, the rime couplet, the sonnet, and the triolet, the rondeau, the rondel, and the ballade. Prerequisite: Course 12. Three hours. M. W. F. Spring quarter. (Matthews, Eastman).

14. Shakespeare. This course is intended (1) to trace Shakespeare’s part in the development of the Elizabethan drama; (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. Some attention is paid to the technique of the drama as understood by Shakespeare. Prerequisite: Course 12. Three hours. M. W. F. Fall Quarter. (Hudson).


17. Nineteenth Century Essayists, including Carlyle, Emerson, Arnold, Newman, Spencer, Macaulay and Huxley. Prerequisite: Course 12. Three hours. M. W. F. Fall Quarter.


19. Literary Criticism. A study of the principles of literary criticism as applied to the various forms of literary expression. Prerequisite: Courses 12 and 13. Three hours. M. W. F. Spring Quarter. (Winchester).

Geological Sciences
Professor Huber.

1. Geology I. Dynamical and Structural. A study of the earth’s crust, dealing with rock form and structure, and the formation of mineral deposits and mountains, together with a
study of the forces past and present which have brought the
earth to its present condition. Lecture, recitations and assigned
readings, with laboratory work. Prerequisites: Chemistry and
Physics. Credit three hours. Fall Quarter.

2. Geology II. Historical. A lecture and recitation course
supplemented by rock collections, fossils and lantern slides.
The sequence and distribution of rock strata and the succession
of past geologic life, including a discussion of the theories of
organic evolution and the evidences of evolution among plants
and animals. Prerequisites: Geology I. and Biology I., II.
desirable. Credit three hours. Winter Quarter and Summer
Quarter, 1916.

Greek and Hebrew

Professor Schoonover.

I. Preparatory Courses.

1. The First Greek Book (White)...........5 hours, 3 quarters.
2. Xenophon, Anabasis, prose composition.5 hours, 2 quar-
ters.

II. Advanced Courses.

1. Epic Poetry. Homer, Iliad...........5 hours, 2 quarters
   Odyssey..........................5 hours, 1 quarter.
2. Lyric Poetry. Selections from the Lyric
   Poets............................5 hours, 1 quarter.
4. Drama _______ Aeschylus, Prometheus
   Bound............................5 hours, 1 quarter.
   Sophocles, Antigone..............5 hours, 1 quarter.
   Euripides, Medea.................5 hours, 1 quarter.
4. History _______ Herodotus, Selections....5 hours, 1 quarter.
   Thucydides, Selections............5 hours, 1 quarter.
   Xenophon, Hellenica..............5 hours, 1 quarter.
5. Philosophy _______ Plato, Apology and Crito 5 hours, 1 quarter.
   Phaedo............................5 hours, 1 quarter.
   Aristotle, Ethics................5 hours, 1 quarter.
6. Oratory _______ Demosthenes, DeCorona..5 hours, 1 quarter.
   Lysias, Orations..................5 hours, 1 quarter.
   Isocrates, Panegyricus............5 hours, 1 quarter.
7. Sacred Greek. New Testament, one of
   the Gospels........................5 hours, 1 quarter.
   Eusebius, Ecclesiastical
   History..........................5 hours, 1 quarter
Each of the advanced courses will be accompanied by a literary study of the period.


**History**

**Professor Davison.**

The study in this department embraces European History, American History and Methods in History. The purpose in all courses is to secure not only the culture which is derived from a knowledge of the growth of political, economic and social institutions, but also the practical benefit of seeing clearly the relation of the past to the present. Special emphasis, in each course, is laid on the leading events, institutions and personalities.

The work consists of lectures, text-book study, magazine reading, preparation of maps and reports. Courses 2 and 6, 3 and 4 alternate; courses 1 and 5 are offered each year.

Candidates for either degree in the College of Liberal Arts must take 9 hours of work in this department. First-year students should take the outline courses in Western Europe or in English History. Before taking subsequent courses, the instructor in charge should be consulted.

1. **Western Europe I, II, III.** Outline course continuing through the fall, winter and spring quarters, and intended to be a comprehensive survey of the history from the barbarian invasions to the present time. Both as to content and methods of study, the work is introductory. Parts II. and III. will be offered also in the summer quarters of 1916 and 1917, respectively. Open to all students. Three hours credit for each of the three quarters.

2. **English History I, II, III.** Outline course and an introductory study of English history from the earliest times to the present; the object being to gain a general knowledge helpful either in a further study of English history or of American history. Special emphasis on the development of the political and constitutional phase and the relation of the English to the American institutions. Parts II. and III. will be offered in the summer quarters of 1916 and 1917 respectively. This course is also
3. Renaissance and Reformation I., II., III. This course deals with the development of civilization in Italy, Germany and England in the period from Dante to Luther; the causes, nature and results of the Protestant revolt and the Catholic reformation. The object is to see as clearly as possible the relation of these movements to the present-day civilization. Special study is made of the dominant personalities of the period and the political, economic and social, as well as the strictly religious causes of the reformation. Prerequisite: History 1 or equivalent. Credit, two hours for each of the three quarters.

4. French Revolution and the Growth of Democracy in the Nineteenth Century I., II., III. As detailed a study as time will permit of the Old Regime; the causes, progress and permanent results of the Revolution; the rise of the Napoleonic empire and institutions; the public and private career of the great conqueror and especially the growth of democratic institutions in the nineteenth century. The course is intended primarily to show the relation of the political, economic and social conditions of these periods to the conditions of today, and to lay stress on the more recent and current events and movements. Prerequisite: History 1 or equivalent. Credit, two hours for each of the three quarters.

5. American History I., II., III. Outline course. A general study of the history of the United States from the discovery of America to the present time. The approach is somewhat biographical, considerable attention being given to the lives of the men who have taken a leading part in making the history of the country. Parts II. and III. will be offered in the summer of 1916 and 1917, respectively. Credit, three hours for each of the three quarters.

6. Recent American History, and Methods I., II., III. In this course, a detailed study of the history of the United States from the Civil War to the present time, and of the classroom methods of presentation is made. The work is intended for those students who expect to teach history, or have taken at least thirty
hours in the subject. It is also recommended to advanced students in the department as a supplement to the outline course in American History. Part I. is offered in the summer quarter of 1916. Credit, two hours for each of the three quarters.

Latin

Professor Whitworth.

It is the aim of this department to utilize as fully as possible the efficiency of Latin as an instrument of education and a means of culture. The student’s effort is directed toward an appreciation of Roman writings from a literary view-point and as exhibiting the genius of the age in which they were written. Attention is given to the history of the people, the biographies of the great men, their manners and customs, home life, religion and worship.

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 of each.
10. Tacitus—Agricola and Germania.
11. Catulus, Tibullus and Propertius—Selections.
13. Cicero—De Officis or De Oratore.
14. Quintillian—Institutes, Book X.
15. Juvenal or Persius—Satires.
16. Lucretius—De Rerum Natura.
17. Cicero—De Natura Deorum or Tusculan Disputations.
18. Seneca’s tragedies, Hercules and Medea.
19. Advanced Prose Composition.

Mathematics

Professors Eva Maglott and Miller.

The courses in Mathematics are designed to meet the needs of students desiring to teach mathematics in high school or col-
lege; to do graduate work in the best universities; to pursue
ing engineering or other technical courses.

7. College Algebra I. Special stress is laid on factoring,
radical quantities, fractional exponents, the solution of simple
equations of one, two or more unknown quantities and the quad-
monic equations of one unknown. Four hours.

8. College Algebra II. The large part of this course is a
study of the quadratic equation, followed by the surds, the im-
aginaries, the binomial theorem and arithmetical, geometrical
and harmonic series. Four hours.

9. College Algebra III. An exposition of the theory of log-
arithms: Permutations, combinations, choice and chance, de-
terminants, theory of equations. Elective in Liberal Arts curric-
ulums. Four hours.

10. Trigonometry I. Plane. This course includes the theory
of the trigonometric functions and their application to the solu-
tion of right and oblique triangles; the use of tables; the solution
of a large number of practical problems. Five hours.

11. Trigonometry II. This course is designed for those who
expect to make mathematics their major study, and for the stu-
dents in engineering. It gives attention to the solution of trig-
onometric identities, the solution of trigonometric equations, and
the theory and solutions of spherical triangles. Two and one-
half hours.

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

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

Modern Languages

Professor Grotch and Assistant.

1. German I. Pronunciation, elements of Grammar, easy
reading, practice in speaking and writing German. Reading:
Maerchen and Ersachlungen (H. A. Guerber).

2. German II. Continuation of Course I. Reading:
Andersen's Fairy Tales, Der Zerbrochene Krug (Zschokke).

3. German III. Drill in Grammar, German conversation
Reading: Germelshausen, Hoeher, als die Kirche, Traumereien, Immensee.

4. German IV. Continuation of Course III. Reading: Schiller's Wilhelm Tell and Marie Stuart. Conversation and composition.

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. French reader.

11. French III. Grammar, oral exercises, composition, conversation. Reading: La Mare au Diable (Sand), L'Abbe Constant.

12. French IV. Continuation of Course III. Grammar, idioms, reading of classics.

13. French V. Reading and translation of French masterpieces, studies in syntax, conversational praxis.


15. French VII. Continuation Course VI.


17. Spanish II. Continuation of Course I. Grammar, composition conversation. Reading: Cuentos Modernos.


19. Spanish IV. Continuation of Course III. Grammar, composition, conversation, reading of best Spanish authors.

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.

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. Five hours. Professor Schoonover.

6. History of Philosophy I. The course covers the history of European philosophy from the Ionian Greeks to the Renaissance. Three hours. Professor Trainum.

7. History of Philosophy II. This is a continuation of Course 6, with special emphasis placed on the philosophical movements of the nineteenth century, including the theory of evolution. Three hours. Professor Trainum.

8-9. Problems in Philosophy. A study in metaphysics. This is a systematic study of the main problems of modern philosophy, such as materialism, idealism, mechanism and teleology, natural law, causation, the nature of the self and the place of the self in the universe. Prerequisites: Psychology and Ethics. Two quarters. Three hours each. Professor Trainum.

10. 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 the state. Five hours. Professor Trainum.

11. General Psychology. This is a survey course for beginners and a review for public school teachers. Five hours. Summer. Professor Trainum.

Physics

Professor Berger and Assistant.

Courses 4, 5 and 6 constitute a year’s work in general physics. These courses are based on Millikan and Gale's "Mechanics, Molecular Physics and Heat," and Millikan's "Electricity, Sound and Light."

4. Mechanics. Three class periods and two laboratory periods a week. Credit five hours. Prerequisites: Preparatory Physics I., II., III., and Plane Trigonometry.

5. Sound, Light and Heat. Three class and two laboratory periods a week. Credit five hours. Prerequisite: Course 4.

6. Electricity and Magnetism. Three class and two laboratory periods a week. Credit five hours. Prerequisite: Course 4.
7. General Physics. A course covering the entire field of physics. Text, Crew's General Physics. Credit five hours. Prerequisites: Preparatory Physics I., II., III.

8. The Teaching of Physics. A course based on Mann's "The Teaching of Physics," intended for those expecting to teach high school physics. Credit five hours. Prerequisite: Course 7.

Political Science

Professor Louthian.

In this department, the purpose is to offer such work as will be a preparation for citizenship, for the study of law, or for further study leading to public service. The constant aim is to see as clearly as possible the activities and operation of governmental institutions, and the relation of the class-room work to present day political problems and movements.

The work consists of lectures, text-book work, magazine reading, discussions, reports. Courses 2 and 4, 3 and 5 alternate; courses 1 and 8 are given every year.

Candidates for either degree in the College of Liberal Arts must take 9 hours of work in this department. Political Science 1 must be taken before Political Science 2, 3, 4, or 5. Before taking subsequent courses, students should consult instructor in charge.

1. American and European Government and Politics I., II., III. It is intended in this course to make as detailed a study as time will permit, of the American governmental system, national, state and local, then a general and comparative study of the governments of Europe, especially France, Italy, Switzerland and Germany, and finally a more detailed study of English government. Particular stress will be laid on the political parties and problems of the present time, the object of the course being to help the student better to appreciate the world politics of today. The course is designed especially for those who are preparing themselves for the duties and responsibilities of citizenship; and so it is intended to awaken in the student a rational interest in present-day political problems. It is also introductory and prerequisite to the more advanced work in Political Science. Credit, three hours for each of the three quarters.
2. Municipal Government and Municipal Functions I., II., III. A comparative and historical study of the activities, functions and problems of European and American cities. Emphasis is placed on the relation of the city to quasi-public corporations, and the government of American cities of the present day. Credit, three hours for each of the three quarters.

3. History and Government of Ohio I., II., III. Early settlements, industrial and political development, the constitution and government. Open to all students who have completed political Science 1 or equivalent. Credit, two hours for each of the three quarters.

4. Party Government I., II., III. This course is a study of the growth, organization and methods of operation of American political parties and of the development and history of political theories from Grecian times to the present day. Stress is laid on the parties and theories of America, especially of today. Credit, three hours for each of the three quarters.

5. International Law and American Diplomacy I., II., III. A general introductory study of the legal relations obtaining between states in time of peace and of war and particularly the contribution which the United States has made to International Law. A sufficient knowledge should be gained to help the student in making an independent analysis of international problems. Credit, two hours for each of the three quarters.

6. Current Politics. This course is designed to awaken in the student a rational interest in both domestic and world political problems and movements of today. It is also recommended to students as a supplement to Political Science 1. Open to all students. Credit, two hours for each quarter.

Psychology

Professor Trainum.

1-2. Psychology I. and II. These courses take up the general study of mental processes. They aim to train the student to observe the processes of his own experience and those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical
and literary interpretation. Three hours each. Fall and Winter quarters.

3. Psychology III. Psychology of Religion. This is a study of a special subject based on a thorough elementary course in psychology. Three main topics will be treated: (1) The beginnings of religion in the race. Special topic, primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginnings of religion in the individual, involving a study in adolescence, the types of religious experience, such as conversion and gradual growth; revivalism in the light of the psychology of suggestion compared with the educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Three hours. Spring, 1917.

4. Psychology IV. Social Psychology. Mind is treated from the standpoint of its organizing, communicating function in social groups. The basis of the theory of social consciousness is derived from recent studies in gesture, language, and instinct. Questions proper to this science are; (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and nation; (2) the social character of instinct, feeling, perception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. Three hours. This course alternates with Psychology III. Spring, 1916.

The Social Sciences
Professor Trainum.

1—2. Principles of Economics. General introduction to the study of Political Economy. Courses 1 and 2 together are designed to give the student an acquaintance with the working principles of modern economics. The general drill in the principles cannot be completed in one quarter and the department does not wish students to elect course 1 who do not intend to continue the work in course 2, as the field is only partially covered in course 1. Five hours each. Fall and Winter; repeated in Spring and Summer.

3—4. Sociology I., II. A study of the phenomena of social
life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation and thinking of the student. Three hours. Fall and Winter.

5. Sociology III. Criminology. A study in social pathology in which the principles laid down in Sociology I. and II. are applied and an effort made to find the cause and remedy for crime. Three hours. Spring 1916.

6. Sociology IV. The social and economic phase of the temperance question, a study in social amelioration. Three hours. Spring 1916. Course IV. will alternate with course III.

7. The Social Message of Jesus to the Men of Today. This course is an effort to get a social and ethical perspective of the life and teachings of Jesus in its present day application.

The work consists of free discussions in the class-room and written themes based on the four gospels and recent works on the life of Christ.

Credit will be given either for English Bible or an elective in sociology. Five hours. Summer, 1916.
SCHOOL OF EDUCATION

FACULTY

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

STURGISS BROWN DAVIS, A. M.,
Dean.
History and Principles of Education.

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

JOHN DAVISON, A. M., Pd. D.,
School Administration.

LEAH ASCHAM, A. B.,
Methods in Mathematics, Critic Teacher.

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

Model School Teachers
(Summer Session)

WALTER GRAY, A. M.,
Principal, Grammar Grade Methods.

Intermediate Methods.

ANNA MARIE VAUGHN,
Primary Methods.

RHEA WELSH, A. B.,
Primary Construction Work.

Professional Training

The rationale of present school systems and the changed conceptions of the teacher's work make some special preparations for that work imperative. For the sake of the normal development of the children and the conservation of the teacher's health, professional training as well as sound scholarship are
prerequisites demanded of those who would secure positions of responsibility and trust. Teachers of experience realize this quite keenly, and in many states public sentiment in this matter has crystallized into mandatory legislation.

Section 7822 of the School Laws of Ohio states that "Applicants for a one-year or a three-year elementary certificate who have taught in the public schools for one school year previous to the time of such application, unless said applicant is a graduate of a college or university of approved educational standing, shall possess an amount of professional training consisting of classroom instruction in a recognized institution for the training of teachers, not less than the following: After January 1, 1916, such applicant shall possess not less than six weeks of such instruction;" an additional six weeks requirement is added each year until "after January 1, 1921, not less than one year of such class-room instruction" is required. The section of the law relating to the practical test in teaching still stands. Nor were the sections regarding the professional and academic requirements of applicants for high school and special certificates annulled. But whatever the legal requirements in any State, boards of education and boards of examiners give preference to teachers who have made special preparation for their chosen work. There is a growing public sentiment to eliminate those who would use the teaching profession as a "stepping stone," and also those who are not awake to the teacher's opportunities for service. With increased scholarship and specific training will come a living wage and a just recognition of this branch of public service. While apparently the supply of teachers is plentiful, abundant opportunity is open to those of superior training.

The Ohio Northern University has always been interested in the training of teachers, and in turn has been liberally patronized by teachers of Ohio and adjoining States. In line with advanced legislation and the spirit of the times, the Department of Education has been enlarged and the facilities increased. The requirements of the Superintendent of Public Instruction have been more than met, and Ohio Northern is found on the "Accredited List" of recognized schools and colleges. Those who complete the Elementary and Secondary courses described in the following pages will be granted "provisional certificates" with-
out further examination, and, after twenty-four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

Requirements for Admission

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

COURSES OF STUDY

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

Degree: Bachelor of Science in Education

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
<td>English</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>Sociology</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>Prin. of Education</td>
</tr>
<tr>
<td>*Elective</td>
<td>6</td>
<td>*Elective</td>
</tr>
</tbody>
</table>

| English    | 3           | English    | 3           | Special Methods  | 3 |
| Psychology | 3           | Sociology  | 3           | Hist. of Education | 3 |
| Biology    | 3           | Prin. of Education | 3 | Sch. Organization | 2 |
| Elective   | 6           | Elective   | 6           | Teach. or Elective | 3 |

| English    | 3           | English    | 3           | Health and San’tion | 5 |
| Psychology | 3           | Sociology  | 3           | Hist. of Education  | 3 |
| Biology    | 3           | Prin. of Education | 3 | Sch. Organization  | 2 |
| Elective   | 6           | Elective   | 6           | Teach. or Elective  | 3 |

| Drawing    | 3           | Psychology | 5           | Ethics            | 5 |
| Psychology | 3           | School Law | 2           | Bible             | 5 |
| Elective   | 9           | Observation| 3           | Elective          | 5 |

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

Two Year Schedule for the Training of Elementary School Teachers.
Diploma: Graduate in Pedagogy

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology</td>
<td>Principles of Teaching</td>
</tr>
<tr>
<td>Geography and Methods</td>
<td>General Methods</td>
</tr>
<tr>
<td>Public School Music</td>
<td>History of Education</td>
</tr>
<tr>
<td>Drawing</td>
<td>School Organization</td>
</tr>
<tr>
<td></td>
<td>Observation or Practice Teach.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>Principles of Teaching</td>
</tr>
<tr>
<td>Arithmetic and Methods</td>
<td>General Methods</td>
</tr>
<tr>
<td>Grammar and Methods</td>
<td>History of Education</td>
</tr>
<tr>
<td>Reading and Methods</td>
<td>School Organization</td>
</tr>
<tr>
<td></td>
<td>Observation or Practice Teach.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>General Methods</td>
</tr>
<tr>
<td>History and Methods</td>
<td>History of Education</td>
</tr>
<tr>
<td>Agriculture and Methods</td>
<td>School Organization</td>
</tr>
<tr>
<td>Health and Sanitation</td>
<td>Observation or Practice Teach.</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION OF COURSES

Educational Psychology

SIX CREDIT HOURS. THREE QUARTERS.

Elementary. This is an introductory course, open to all freshmen, and is designed to lay a foundation for all succeeding educational work. While the work of the three quarters is sequential and should be taken as outlined, it is offered in three units, any one of which may be taken separately if the student shall read the preceding texts and references. The courses are as follows: (a) An outline of Psychology, to acquaint the student with the laws and phenomena of mental life; (b) The Original Nature of man and how it may be used as the starting point in the educative process; (c) an outline study of Paidology, with emphasis on the meaning of infancy, adolescence and the exceptional child. (T., Th.)

—PROFESSOR DAVIS.

Advanced. The prescribed readings in this course are based upon the works of Thorndike, Judd and Starch. Students are
directed to discover the fundamental bases of the learning process through books, research, observation of classes at work, and experimentation. The various subjects of the high school curriculum are examined with reference to their contribution to mental development, and the more economical methods of acquisition. Open to students who have a working knowledge of psychological principles. (T., Th.) —PROFESSOR DAVIS.

School Organization

SIX CREDIT HOURS. THREE QUARTERS.

Elementary. The work of the three quarters is based respectively upon: (a) Class room management; (b) recent school legislation in Ohio and school discipline; (c) courses of study. Although the work is planned for three consecutive quarters, any one may be selected by special students prepared to take the work. (T., Th.) —DR. DAVISON.

Secondary. A continuous course in school administration, embracing: (a) Study of existing school systems and the various relation of the various agencies at work; comparative school legislation, with attention to Ohio; school management, financial problems, buildings and furnishings; (b) secondary education, with special study of courses of study, selection of teachers, reports, grading and records; (c) school sanitation and the social center movement. (T., Th.) —DR. DAVISON.

History of Education

NINE CREDIT HOURS. THREE QUARTERS.

An outline study of the whole field, with special readings on particular periods such as Greek, Roman and Christian education; the contributions of Comenius, Rousseau, Herbart, Pestalozzi, and other modern educators. The work is based on Graves' "A History of Education," three volumes (Before the Middle Ages, During the Middle Ages, and in Modern Times), and Parker's "A History of Modern Elementary Education." Required of seniors in both courses in education, but the outside readings are adjusted to the special interests of both classes of students. Open to Liberal Arts students who have had psychology. (M., W., F.) —PROFESSOR DAVIS.
Principles of Education

Elementary. A study of the principles of teaching based on psychology. The work is centered about the recitation and school room practices. Interest and effort, form and content, perfection and crudeness of work, the ideal and practical, heredity and environment and kindred dualisms are carefully examined. Fall and Winter Quarters. Credit six hours. (M., W., F.)
—Professor Wilson.

Secondary. The work is planned to meet the interests of prospective high school teachers and school principals. The principles of education founded upon psychology, biology and sociology are studied to find working bases. The dogmatical is not attempted, but a rational view point towards present educational problems is emphasized. Open to Liberal Arts students who have had psychology, and who elect history of education. Fall and Winter and Spring Quarters. Credit nine hours. (M., W., F.)
—Professor Davis.

Methods of Teaching

General. (Elementary). A careful study of the value of method in the educative process. The inductive and deductive lesson plans, drills, examinations, questioning, memoriter vs. rational systems, how to study and kindred topics are discussed. The methods suitable to the different grades and how they should be modified are continually kept before students. Six credit hours. (T., Th.) Fall, Winter, Spring. —Professor Wilson.

General. (Secondary). In this course is presented a series of phases of the scientific methods of presenting high school subjects, and checking on the results. The prescribed readings are based upon the general methods advocated by Dewey and Parker. Fall Quarter only. (M., W., F.) —Professor Davis.

Special. (Elementary). The various elementary branches listed in the “Two Year” schedule are taken up with a view to gaining advanced academic knowledge and an acquaintance with the more improved methods of teaching them. Selected texts in both subject matter and methods are made the basis in each branch. The courses are broadened by observation lessons in the public school, lectures and library references.
—Professors Wilson, Schoonover, Simon and Davis.
Special. (Secondary). Students taking this course will be divided into groups according to the subject they are preparing to teach. Each student must prepare a thesis on the better methods of teaching in his chosen field. The material for this study will be based upon prescribed library readings, a practical study of the methods used by the instructors in the preparatory department, and local high school, and the counsel of the professor in charge. (M., W., F.). Winter Quarter only.

—Professor Davis

Public School Drawing

This is an elementary course based upon well established principles of expressing thought and action by symbols. A few well directed lines on the board or paper are a valuable help in teaching any subject. No special talent is required to take this course, as the principles may be worked out mechanically. Required of all students wishing a diploma in Education. Fall and Summer quarters. Three hours credit. —Professor Long.

Public School Music

The educational value of music is recognized in both elementary and secondary work. Every public school teacher should take part in the convocational singing of the school. Although not all teachers have gifted voices, yet they can learn the principles upon which music is based. No extra charge for this special training in the music department. Fall or Summer quarters. Three hours credit. —Miss Bowers.

Health and Sanitation

This is a composite course comprising health work in the school, including that of the teacher and pupils; a theoretical consideration of the intimate relation existing between mental and physical development, and plays and games which promote physical and moral growth. The prescribed readings are based upon the works of Curtis, Hoag, and Bancroft, lectures, actual participation in games with children, and sanitary surveys. Open to all students in the School of Education who are prepared to carry the course. The class will assemble daily. Spring quarter only. Five hours credit.

—Professors Wilson and Davis
The Observation of Teaching

Through the cooperation of the Ada public schools and the preparatory department of the University this work is easily accessible to all. Only a limited number, however, can be accommodated at one time, and special arrangement must be made as early as possible. It is advantageous to take the work daily, and attend a conference conducted by a training teacher. Credit is based upon attendance at the class, the weekly conference, and the nature of the reports. Three credit hours a quarter.

Practice Teaching

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

The Summer Quarter

The facilities at the Ohio Northern offer an unusual opportunity for the improvement of teachers already in the service. The courses in Liberal Arts are open to all who are prepared to take them along with the regular students in residence. In proportion to the demand, arrangements are made for additional instructors and special classes. Besides the academic instruction, classes will be formed in all the subjects prescribed by the State Department of Education for the professional training of teachers. Additional teachers have been employed and classes will be divided into sections small enough to give each student opportunity to recite and ask questions. Here is an opportunity to get in line for a State life certificate. Arrangements have been made for two full courses in primary methods, including plays, games, and so forth.
Employment Bureau

This Bureau was organized to assist Ohio Northern students in securing teaching positions commensurate with their skill and scholastic attainments. In the past year many graduates and former students were brought into direct communication with school officers in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau. The demand for teachers of science, agriculture, physical training and manual training was in excess of the properly qualified candidates.

School officers are most cordially invited to come to Ada and meet prospective teachers personally. The present senior class is composed of a number of exceptionally strong young men and women, and such a personal visit will repay any County or City Superintendent.

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

FACULTY

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

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

HENRY WHITWORTH, A. B.,
Latin.

WILHELM CLAUDIUS GROTH, A. B.,
Modern Foreign Languages.

FRANK LEWIS BERGER, A. B.,
Physics.

CARRIE LOIS SCHROCK,
History.

LEAH ASCHAM, A. B.,
Algebra, Geometry.

HAROLD DURBIN BAILEY,
Rhetoric.

HARRY VANNORSDAL,
Physiology, Botany.

RUTH CARLOTTA SOUNDER, A. B.,
English Composition.

The Preparatory School is organized for the purpose of (1) preparing students for college entrance, (2) affording an opportunity to any desiring to complete the work commonly required in first-class high schools.
The courses of study in the preparatory school are arranged to meet the usual requirements for college entrance, the minimum of which is fifteen units. The time value of a unit is 120 clock-hours of class periods; two hours of laboratory work considered equivalent to one recitation or class period.

The subjects, distributed by years and terms, as shown in the schedules following, are to be taken, as far as possible, in the order indicated.

If a student, on completing the preparatory curriculum, desires to enter college elsewhere, a certificate is issued, showing that the entrance work has been finished. This certificate is accepted in lieu of entrance examinations by the Ohio State University and other leading colleges, Ohio State Medical Board, and by the Supreme Court of Ohio in lieu of the "preliminary" to the bar examinations.

**Preparatory to Collegiate Courses for A. B. Degree**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>Preparatory Rhetoric 1</td>
<td>Physics 3</td>
</tr>
<tr>
<td>Algebra 1</td>
<td>Plane Geometry 2</td>
<td>Ancient History</td>
</tr>
<tr>
<td>Beginning Latin 1</td>
<td>Caesar 2</td>
<td>Cicero 3 and Virgil 1</td>
</tr>
<tr>
<td>Adv. English Grammar</td>
<td>Preparatory Rhetoric 2</td>
<td>English Literature 2</td>
</tr>
<tr>
<td>Algebra 2</td>
<td>Plane Geometry 3</td>
<td>Med. and Mod. Hist. 1</td>
</tr>
<tr>
<td>Beginning Latin 2</td>
<td>Greek 1 or German 1 or French 1.</td>
<td>Virgil 2</td>
</tr>
<tr>
<td>English Literature 1</td>
<td>Physics 1</td>
<td>English Literature 3</td>
</tr>
<tr>
<td>Algebra 3</td>
<td>Cicero 1.</td>
<td>Med. and Mod. Hist. 2</td>
</tr>
<tr>
<td>Beginning Latin 3</td>
<td>Greek 2 or German 2 or French 2.</td>
<td>Anabasis 1. or German 4 or French 4.</td>
</tr>
<tr>
<td>Preparatory Botany</td>
<td>Physics 2.</td>
<td>American Literature</td>
</tr>
<tr>
<td>Plane Geometry 1</td>
<td>Cicero 2.</td>
<td>Virgil 3</td>
</tr>
<tr>
<td>Caesar 1.</td>
<td>Greek 3 or German 3 or French 3.</td>
<td>Anabasis 2 or German 5 or French 5.</td>
</tr>
</tbody>
</table>


## Preparatory to Collegiate Courses for B. S. Degree

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English Composition</strong></td>
<td><strong>Preparatory English</strong></td>
<td><strong>Physics 3.</strong></td>
</tr>
<tr>
<td>Algebra 1.</td>
<td>History</td>
<td>Ancient History</td>
</tr>
<tr>
<td>Beginning Latin 1.</td>
<td>Plane Geometry 2.</td>
<td>German 4 or French 4</td>
</tr>
<tr>
<td></td>
<td>Caesar 2.</td>
<td>or Spanish 4.</td>
</tr>
<tr>
<td><strong>Advanced English Grammar</strong></td>
<td><strong>Preparatory American</strong></td>
<td><strong>English Literature 2.</strong></td>
</tr>
<tr>
<td>Beginning Latin 2.</td>
<td>Plane Geometry 3</td>
<td>German 5 or French 5</td>
</tr>
<tr>
<td></td>
<td>German 1 or French 1 or Spanish 1</td>
<td>or Spanish 5.</td>
</tr>
<tr>
<td><strong>English Literature 1.</strong></td>
<td><strong>Physics 1.</strong></td>
<td><strong>English Literature 3</strong></td>
</tr>
<tr>
<td>Algebra 3.</td>
<td>Preparatory Rhetoric 1.</td>
<td>Med. and Mod. Hist. 2</td>
</tr>
<tr>
<td>Beginning Latin 3.</td>
<td>German 2 or French 2 or Spanish 2</td>
<td>Physiology 1.</td>
</tr>
<tr>
<td><strong>Preparatory Botany</strong></td>
<td><strong>Physics 2.</strong></td>
<td><strong>American Literature</strong></td>
</tr>
<tr>
<td>Caesar 1.</td>
<td>German 3 or French 3 or Spanish 3</td>
<td>Solid Geometry or Civics.</td>
</tr>
</tbody>
</table>

## DESCRIPTION OF COURSES

### English

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

2. **Rhetoric I.** Narration and description. This course is closely co-ordinated with English literature. Stevenson's "Kidnapped" is carefully studied. The theme work is largely based upon the literature the student has studied. Three short themes are required each week, and one long theme for the quarter. **Prerequisite:** Course I.
3. Rhetoric II. Exposition and argumentation. The aim of this course is to teach the student to write clearly. The theme work is based upon physics, physiography, civics, history and literature. There is practice in brief making and debating. Macaulay's Essays on Lord Clive and Warren Hastings are carefully studied. Prerequisite: Course 2.

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

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

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

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

Mathematics

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


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


History

1. Ancient History. (Myers, Davis's Readings). An introductory study of the ancient nations, especially Greece and Rome, and the chief events of the early Middle Ages, down to the death of Charlemagne (814). Offered every Fall quarter and also in the summer of 1916.

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

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


5. American History. (Channing, Hart's Source Book). An elementary course in the history of the American nation from 1492 to the present time. Offered every winter quarter and also in the summer of 1916.

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 quarter 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 sixty hours in individual laboratory work on these subjects.

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

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

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

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

Latin

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

3. Cicero and prose composition; six orations, including the four against Cataline and the Manillian Law. Five hours a week. Two and one-half quarters. Allen and Greenough, or any quantity-marked text, is used. Pearson’s Prose Composition.


Greek

1. First Lessons based on White’s “First Greek Book.” Five hours a week. First quarter, lessons 1-27; second quarter, lessons 28-54; third quarter, lessons 55-80.

2. Xenophon’s Anabasis, four books. Goodwin’s text. Five hours a week. Two quarters.

German

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

2. German II. Continuation of course I.

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

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

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

French

1. French I. Pronunciation, grammar, reading, composition and oral exercises.

2. French II. Continuation of course I.

3. French III. Reading, grammar and exercises.

4. French IV. Reading and translation of French masterpieces, studies in syntax, conversational praxis.

5. French V. Study of French classics, conversational praxis.
COLLEGE OF ENGINEERING

FACULTY

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

CHARLES BYRON WRIGHT, G. S.,
Executive Secretary.

THOMAS JEFFERSON SMULL, ARCH., C. E.,
Dean.
Civil Engineering.

MARTYN LYNN THORNBURG, B. S., M. E.,
Mechanical Engineering.

CHARLES ADDISON MILLER, C. E.,
Municipal Engineering.

KARL BOYER MACEACHRON, E. E.,
Electrical Engineering.

MRS. EVA MAGLOTT, A. M., C. E.,
Higher Mathematics.

LEAH ASCHAM, A. B.,
Mathematics.

LENIX CRAIG SLEESMAN, PHARM. C.,
Chemistry.

FRANK LEWIS BERGER, A. B.,
Physics.

HARVEY EVERT HUBER, A. M.,
Geology and Mineralogy.

JAMES BRAKES, JR.,
Metallurgy.

WILLIAM CLAUDIUS GROTH, A. B.,
Modern Languages.
Aim

In organizing and maintaining this department, the Ohio Northern University provides a school where one can get an education in Engineering at the least possible expenditure of time and money. The curriculums of other technical schools require the student to devote three-eighths of the time to the study of subjects having no direct bearing on Engineering. By omitting these subjects, the time is shortened to about two and a half years.

In thus reducing the length of the curriculum, an Engineering Degree is 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 vocation. The success of the experiment is seen in the fact that a very large per cent. of the graduates are engaged in occupations connected with Engineering.

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

The value of the culture gained through the study of the "liberal arts and sciences" cannot be overestimated, and to accommodate those desiring this culture in addition to the thorough technical training, the College of Liberal Arts with its excellent curriculums and many advantages is open to all Engineering students free of extra tuition.

Admission

Students presenting certified credits for the subjects required for entrance to the respective courses set forth in the following pages are permitted to register as candidates for the corresponding Engineering degrees. The prerequisites are specifically 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. Some credit is given for practical experience in draughting and field work acquired previous to matriculation, upon receipt of a satisfactory statement from the employer, stating the nature of the work and length of service. Statements must include postoffice address as well as signature of employer.

Time to Enter

The large number of classes formed each quarter 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 quarter. See Calendar.

In view of the fact that every branch of study in the College of Engineering is presented from two to four 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 vocation. These are termed options and are mentioned in the schedules of the courses.
CIVIL ENGINEERING

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

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 so desiring may elect advanced work in hydraulics and sewerage, instead of a portion of the structural work of this curriculum. The subject of roads and pavements, railroad construction and maintenance and masonry structures are exhaustively treated. Special attention is given to land, topographical stadia and city surveying and leveling. The end in view 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 well equipped laboratory, a large modern draughting room, equipped with individual lockers, a cement testing laboratory, an hydraulic laboratory, 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.
## Schedule

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra I</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Business English</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra II</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>2½</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry III</td>
<td>5</td>
</tr>
<tr>
<td>Analytical Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra III</td>
<td>4</td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>4</td>
</tr>
<tr>
<td>Analytical Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Physics VI</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology</td>
<td>3</td>
</tr>
<tr>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>5</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIFTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>Calculus III</td>
<td>5</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Field Engineering</td>
<td>5</td>
</tr>
<tr>
<td>Physics V</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIXTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>Mechanics of Materials I</td>
<td>5</td>
</tr>
<tr>
<td>Stereotomy</td>
<td>4</td>
</tr>
<tr>
<td>Highway Engineering</td>
<td>2½</td>
</tr>
<tr>
<td>Rail Road Surveying</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEVENTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Astronomy</td>
<td>2½</td>
</tr>
<tr>
<td>Mechanics of Materials II</td>
<td>5</td>
</tr>
<tr>
<td>Stresses I</td>
<td>5</td>
</tr>
<tr>
<td>Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>R. R. Economics and Design</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EIGHTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stresses II</td>
<td>5</td>
</tr>
<tr>
<td>Graphics II</td>
<td>4</td>
</tr>
<tr>
<td>Masonry Design</td>
<td>3</td>
</tr>
<tr>
<td>Electric Railways</td>
<td>2½</td>
</tr>
<tr>
<td>Sewerage</td>
<td>2½</td>
</tr>
<tr>
<td>Least Squares</td>
<td>2½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NINTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Design I</td>
<td>5</td>
</tr>
<tr>
<td>Hydraulics I</td>
<td>5</td>
</tr>
<tr>
<td>Higher Structures</td>
<td>5</td>
</tr>
<tr>
<td>Reinforced Concrete</td>
<td>3</td>
</tr>
<tr>
<td>Geodesy</td>
<td>2½</td>
</tr>
<tr>
<td>Cement Testing</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TENTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Design II</td>
<td>5</td>
</tr>
<tr>
<td>Hydraulics II</td>
<td>4</td>
</tr>
<tr>
<td>Hydraulic Laboratory</td>
<td>2½</td>
</tr>
<tr>
<td>Building Construction</td>
<td>3</td>
</tr>
<tr>
<td>Estimates and Contracts</td>
<td>2½</td>
</tr>
<tr>
<td>Cement Testing</td>
<td>1</td>
</tr>
<tr>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>THESIS</td>
<td></td>
</tr>
</tbody>
</table>

### OPTIONS.

- Machine Design, 4; Metallurgy, 2½; Mineralogy, 2½; Water Supply, 4;
- Electrical Machinery I, 5; Advanced English or Advanced German or other modern languages, 8.

Note—200 credit hours required for graduation.

Note—Two hours field work constitutes one credit hour.

Maximum number of hours per week—23.

Minimum number of hours per week—15.
ELECTRICAL ENGINEERING

The courses offered in this branch of Engineering embrace a thorough study of theoretical and applied electricity. The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering curriculums, 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 practical 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 an excellent Physical Laboratory, the department has a well-equipped Electrical Laboratory. A gas-engine-driven electric lighting system has been installed for lighting the University buildings and grounds. Both this plant and the plant of the Ada Water, Heat & Light Company are available for inspection and tests by students. In the laboratory, both direct and alternating currents are available for testing purposes. As part of the equipment may be mentioned the following: A general 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 manufactured 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 induction 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, ammeters representing nearly all the best-known makes of instruments. In addition to the above the department is supplied with a number 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 unexcelled opportunity for studying meter design and operation.

### Schedule

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SIXTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra I</td>
<td>Electrical Machinery V</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>Electrical Machinery III</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>Gas Engines</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>Mechanics of Materials I</td>
</tr>
<tr>
<td>Business English</td>
<td>Machine Drawing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND QUARTER</th>
<th>SEVENTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra II</td>
<td>Electric Machinery VI</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>Electric Machinery IV</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>Mechanics of Materials II</td>
</tr>
<tr>
<td>Chemistry III</td>
<td>Machine Design I</td>
</tr>
<tr>
<td>Analytical Geometry I</td>
<td>Hydraulics I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD QUARTER</th>
<th>EIGHTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra III</td>
<td>Electric Machinery VII</td>
</tr>
<tr>
<td>Calculus I</td>
<td>Stresses I</td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>Graphics I</td>
</tr>
<tr>
<td>Analytical Geometry II</td>
<td>Machine Design II</td>
</tr>
<tr>
<td>Physics VI</td>
<td>Hydraulics II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH QUARTER</th>
<th>NINTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Machinery I</td>
<td>Electric Machinery VIII</td>
</tr>
<tr>
<td>Calculus II</td>
<td>Electric Machinery IX</td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>Masonry</td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>Electric Railways</td>
</tr>
<tr>
<td>Physics IV</td>
<td>Hydraulic Laboratory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIFTH QUARTER</th>
<th>TENTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Machinery II</td>
<td>Advanced Alternating Curr'ts</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>Electrical Transmission</td>
</tr>
<tr>
<td>Calculus III</td>
<td>Illuminating Engineering</td>
</tr>
<tr>
<td>Analytical Mech</td>
<td>Est. and Contracts</td>
</tr>
<tr>
<td>Physics V</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

**OPTIONS**

- Descriptive Geometry II, 4; Electric Meters, 4; Storage Batteries, 4; Telephone Engineering, 4; Metallurgy, 2½; Railroad Engineering, 5; Gas Engines, 5; Adv. A. C. Lab., 2½; Differential Equations, 4; Adv. Eng. or Adv. German or other modern languages, 8.
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 selected with a view to the theoretical and practical training that will enable the student to cope with the intricate and complicated problems arising in this phase of engineering. The first half of the curriculum consists of the basic engineering studies. In the latter half the usual mechanical engineering studies are pursued. Thorough training is given in machine drafting, machine designs, thermodynamics, steam engines, steam boilers, gas engines, electrical machinery and steam power plants.

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

**Schedule**

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra I</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Business English</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra II</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>2½</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry III</td>
<td>5</td>
</tr>
<tr>
<td>Analytical Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra III</td>
<td>4</td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>4</td>
</tr>
<tr>
<td>Analytical Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Physics VI</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Machinery I</td>
<td>5</td>
</tr>
<tr>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>5</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIFTH QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus III</td>
<td>5</td>
</tr>
<tr>
<td>Electrical Machinery III</td>
<td>4</td>
</tr>
<tr>
<td>Analytical Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Physics V</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SIXTH QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermodynamics I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanics of Materials I</td>
<td>5</td>
</tr>
<tr>
<td>Machine Drawing</td>
<td>4</td>
</tr>
<tr>
<td>Metallurgy</td>
<td>2½</td>
</tr>
<tr>
<td>Masonry</td>
<td>4</td>
</tr>
</tbody>
</table>
SEVENTH QUARTER

Thermodynamics II ........................................ 5
Mechanics of Materials II ................................. 5
Machine Design I ............................................ 4
Mechanical Laboratory I ................................... 4
Hydraulics I .................................................. 5

EIGHTH QUARTER

Machine Design II .......................................... 4
Stresses I ..................................................... 5
Graphics I .................................................... 4
Hydraulics II ................................................ 4
Gas Engines .................................................. 5

THIRD QUARTER

Ninth Quarter

Steam Engine Design ........................................ 4
Mechanical Laboratory II ................................. 4
Stresses II ................................................... 5
Steam Turbines .............................................. 5
Seminar ....................................................... 5

TENTH QUARTER

Steam Power Plants ......................................... 4
Mill Buildings ............................................... 3
Scientific Management ..................................... 4
Hydraulic Laboratory ....................................... 2½
Estimates and Contracts ................................. 2½
Seminar ....................................................... 1
THESIS

OPTIONS

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

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

MUNICIPAL AND SANITARY ENGINEERING

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 curriculum, the city improvements in progress in Ada together with an excellent cement testing laboratory afford 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.
<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SIXTH QUARTER</th>
<th>SEVENTH QUARTER</th>
<th>EIGHTH QUARTER</th>
<th>NINTH QUARTER</th>
<th>TENTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>Hours</td>
<td>Hours</td>
<td>Hours</td>
<td>Hours</td>
<td>Hours</td>
</tr>
<tr>
<td>College Algebra I</td>
<td>4</td>
<td>Water Analysis</td>
<td>5</td>
<td>Masonry</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>5</td>
<td>Mechanics of Materials I</td>
<td>5</td>
<td>Mechanics of Materials II</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
<td>Highway Engineering</td>
<td>3½</td>
<td>Stresses I</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>5</td>
<td>Railroad Surveying</td>
<td>5</td>
<td>Graphics</td>
<td>4</td>
</tr>
<tr>
<td>Business English</td>
<td>2½</td>
<td>Physics VI</td>
<td>5</td>
<td>R. R. Economics and Design</td>
<td>5</td>
</tr>
<tr>
<td>SECOND QUARTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>2½</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry III</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Geometry I</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THIRD QUARTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra III</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Geometry II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry VI</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOURTH QUARTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geology</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plane Surveying</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIFTH QUARTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Mechanics</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus III</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal Engineering</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics V</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TENTH QUARTER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Municipal Management</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydraulics II</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydraulic Laboratory</td>
<td>2½</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Construction</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimates and Contracts</td>
<td>2½</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement Testing</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seminar</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THESIS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note—200 hours are required for graduation.
Note—Two hours laboratory work constitute one credit hour.
Maximum number of hours per week—23.
Minimum number of hours per week—15.
CHEMICAL ENGINEERING

In answer to the growing demand for a course of study that will prepare the student to attack and solve the many chemical and metallurgical problems evolving from the rapid development of the industries, a course in chemical engineering has been arranged.

The aim is not only thoroughly to acquaint the student with the fundamental principles of chemical science, but to afford him a complete drill in analysis and in the preparation of inorganic and organic products.

### Schedule

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Hours</th>
<th>SIXTH QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra I</td>
<td>4</td>
<td>Mechanics of Materials II</td>
<td>5</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>5</td>
<td>Machine Design I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
<td>Electric Machines II</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry II</td>
<td>5</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>Business English</td>
<td>4</td>
<td>Thermodynamics I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SECOND QUARTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra II</td>
<td>4</td>
<td>Mechanics of Materials II</td>
<td>5</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>2½</td>
<td>Mechanical Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
<td>General Metallurgy</td>
<td>2½</td>
</tr>
<tr>
<td>Chemistry III</td>
<td>5</td>
<td>Organic Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Analytical Geometry I</td>
<td>4</td>
<td>Thermodynamics II</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THIRD QUARTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra III</td>
<td>4</td>
<td>Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
<td>Steam Engines</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>4</td>
<td>Electric Machines V</td>
<td>5</td>
</tr>
<tr>
<td>Analytical Geometry II</td>
<td>4</td>
<td>Quantitative Analysis I</td>
<td>5</td>
</tr>
<tr>
<td>Physics VI</td>
<td>5</td>
<td>Electro Metallurgy</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOURTH QUARTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus II</td>
<td>4</td>
<td>Hydraulics I</td>
<td>5</td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>4</td>
<td>Economics</td>
<td>5</td>
</tr>
<tr>
<td>Elem. Elect. Engineering</td>
<td>5</td>
<td>Electric Laboratory I</td>
<td>4</td>
</tr>
<tr>
<td>Qualitative Analysis I</td>
<td>5</td>
<td>Special Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Physics IV</td>
<td>4</td>
<td>Estimates and Contracts</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FIFTH QUARTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus III</td>
<td>5</td>
<td>Hydraulics II</td>
<td>5</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
<td>Scientific Management</td>
<td>4</td>
</tr>
<tr>
<td>Electrical Machinery I</td>
<td>5</td>
<td>Storage Batteries</td>
<td>4</td>
</tr>
<tr>
<td>Qualitative Analysis II</td>
<td>5</td>
<td>Industrial Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Physics V</td>
<td>4</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THESIS</td>
<td></td>
</tr>
</tbody>
</table>
Note—200 hours are required for graduation.
Note—Two hours laboratory work constitutes one credit hour.
Maximum number of hours per week—23.
Minimum number of hours per week—15.

STRUCTURAL DRAFTING

This course is designed to give the student a thorough drill in "Drafting Room" practice. There are many young men who for reasons, financial or otherwise, do not aspire to the longer courses leading to a degree, but who would gladly avail themselves of the opportunity to prepare themselves to enter the busy "Structural Field." For such as these we have arranged this course, and upon completion of same a certificate will be granted, which should prove to be a valuable passport into the modern drafting room. There is no preparation other than the grades necessary to enter this course.

Schedule

FIRST QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra I</td>
<td>4</td>
</tr>
<tr>
<td>English Composition</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>Geometry I</td>
<td>5</td>
</tr>
</tbody>
</table>

SECOND QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra II</td>
<td>4</td>
</tr>
<tr>
<td>Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>Preparatory Rhetoric I</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>Physics I</td>
<td>4</td>
</tr>
</tbody>
</table>

THIRD QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra III</td>
<td>4</td>
</tr>
<tr>
<td>Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing III</td>
<td>4</td>
</tr>
<tr>
<td>Descriptive Geometry I</td>
<td>4</td>
</tr>
<tr>
<td>Business English</td>
<td>4</td>
</tr>
</tbody>
</table>

FOURTH QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra IV</td>
<td>4</td>
</tr>
<tr>
<td>Mechanism</td>
<td>4</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Graphic Statics</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry I</td>
<td>5</td>
</tr>
<tr>
<td>HR.</td>
<td>INSTRUCTOR</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
</tr>
<tr>
<td>7 A.M</td>
<td>Smull</td>
</tr>
<tr>
<td></td>
<td>MacEachron</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Berger</td>
</tr>
<tr>
<td>8:30</td>
<td>Smull</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Smull</td>
</tr>
<tr>
<td>9:30</td>
<td>MacEachron</td>
</tr>
<tr>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
<tr>
<td></td>
<td>Berger</td>
</tr>
<tr>
<td>HR</td>
<td>INSTRUCTOR</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>MacEachron</td>
</tr>
<tr>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
<tr>
<td>1:00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MacEachron</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
<tr>
<td>2:00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td>Thornburg</td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
<tr>
<td>HR.</td>
<td>INSTRUCTOR</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
</tr>
<tr>
<td>3:00</td>
<td>Smull</td>
</tr>
<tr>
<td></td>
<td>MacEachron</td>
</tr>
<tr>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
<tr>
<td>4:00</td>
<td>Smull</td>
</tr>
<tr>
<td></td>
<td>Miller</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maglott</td>
</tr>
</tbody>
</table>

NOTE—Subjects marked * are subject to change, both as to hour and term. M. W. F. denotes recitations held on Monday, Wednesday and Friday; T. Th., on Tuesday and Thursday.
DESCRIPTION OF COURSES.

MATHEMATICS

1. College Algebra I.: 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: Wells. Prerequisite: Alg. I., II. and III.

2. College Algebra II.: 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: Wells. 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: Granville. Prerequisite: Alg. III. 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 special triangles. Text: Granville. Prerequisite: Trig. I.

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

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


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

4 Physics IV.: (University Physics—Mechanics): Kinematics, kinetics elasticity, mechanics of fluids, lectures, class exercises and laboratory work. Prerequisites: Physics I., II., and III and Calculus I.


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 II.: 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: McPherson and Henderson Prerequisite: Physics I., II., III., Algebra I.

8. Chemistry III.: 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. Text: McPherson and Henderson Prerequisite: Chemistry II.

**DRAWING.**

1. Freehand Drawing: Sketching and pencil work.
2. Lettering: Freehand engineering lettering.
7. Descriptive Geometry II.: Spherical projections, maps, shadows, perspectives. Text: Church's Descriptive Geometry. Prerequisite: Descriptive Geometry I.
11. Masonry Design: Intersecting arches, warped surfaces, etc., modeling and drawing. Text: Professor's Notes. Prerequisite: Descriptive Geometry.

**CIVIL ENGINEERING**


7. Sewerage: Disposal and design. Text: Fowell’s Sewerage. Prerequisites: Chemistry and Surveying.


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.


27. Hydraulic Laboratory: Test for water transportation losses. Text: Professor's Notes. Prerequisite: Hydraulics I. and II.

**ELECTRICAL ENGINEERING**

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


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


17. Illuminating Engineering: Theory and general principles, Photometry, calculation of Illumination. Text: Wicenden's Illumination and Photometry. Prerequisites: Physics V., VI.


MECHANICAL ENGINEERING


2. Thermodynamics II: Steam engines, compound engines, engines testing, engine economy. Text: Cardullo’s. 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; the study to be selected by the professor in charge and the subject to be announced not less than twenty-four weeks preceding graduation.

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

Degrees

The University is empowered to grant the customary scholas-
tic degrees, but aims to bestow them on the deserving only.
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 stu-
dent carrying more than two subjects will be excused from the
final examinations during the senior quarter.

Seminar

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

Student Technical Organizations

The Ohio Northern Society of Engineers assembles weekly,
to read papers and discuss subjects of interest to all engineering
students. During the year a number of practicing engineers are
invited to address the society on timely and practical topics. All
engineering students are eligible to membership.
The Ohio Northern University Branch of the American In-
stitute of Electrical Engineers holds monthly meetings at which
original papers and papers printed in the Proceedings of the
American Institute of Electrical Engineers are read and dis-
cussed. All students interested in electrical engineering are
eligible to membership in this Society.

Expenses

See pages 28 and 29 of this bulletin.
COLLEGE OF LAW
FACULTY

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

JAY PAUL TAGGART, LL. B.,
Dean.
Professor of Law.

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

MAJOR CLIFFE DEMING, A. M.,
Professor of Oratory and Public Speaking.

ALFA HOLMES,
Registrar.

When Organized

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

Its Purpose

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

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

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

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar.

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

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

**Equipment**

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

**Course of Study**

**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Law</td>
<td>Domestic Relations and</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>Personal Property and</td>
<td>Law of Persons</td>
<td></td>
</tr>
<tr>
<td>Sales of Personal-</td>
<td>Agency</td>
<td>Bailments and Carriers</td>
</tr>
<tr>
<td>al Property</td>
<td>Contracts II.</td>
<td>Partnership</td>
</tr>
<tr>
<td>Contracts I.</td>
<td>Torts I.</td>
<td>Torts II.</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insurance</td>
<td>Wills</td>
<td>Administration of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Estates... (2 hours)</td>
</tr>
<tr>
<td>Negotiable Paper I.</td>
<td>Negotiable Paper II.</td>
<td>Municipal Corporations</td>
</tr>
<tr>
<td>Suretyship</td>
<td>Real Property I.</td>
<td>Real Property II.</td>
</tr>
<tr>
<td>Private Corporations I.</td>
<td>Private Corporations II.</td>
<td>Pleading and Practice I.</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pleading and Practice II.</td>
<td>Evidence I.</td>
<td>Evidence II.</td>
</tr>
<tr>
<td>Constitutional Law</td>
<td>Equity I.</td>
<td>Equity II.</td>
</tr>
<tr>
<td>Quiz A</td>
<td>Quiz A</td>
<td>Quiz A</td>
</tr>
<tr>
<td>Quiz B</td>
<td>Quiz B</td>
<td>Quiz B</td>
</tr>
</tbody>
</table>
Lectures are given on legal ethics, legal history, international law and court practice.

Method of Instruction

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

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

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

Moot Court

Moot Court, under the direct supervision of the faculty, forms a regular part of the work, in which each student is expected to participate. He is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motions and journal entries, together with the principles of proceeding in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

Admission

Students may enter the College of Law at any time, but preferably at the beginning of a school quarter. 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 held, when deemed necessary, by the Law Faculty.
Preliminary to Bar Examination

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

Graduation

The degree of Bachelor of Laws is conferred on students who have completed the prescribed course of study and possess the preliminary qualifications necessary to admit them to the Bar examination of this state. Credit toward graduation is given for properly certified work done in any reputable law school, or under the instruction of a reputable practicing attorney; but no credit is given for correspondence school work, nor is any student graduated who has not been in residence in this College for at least four quarters, has not completed courses in the College of Law requiring 60 recitation hours, and produced, upon applying for graduation, evidence of graduation from a first-grade high school; or the equivalent thereof.

Expenses

For expenses see pages 28 and 29 of this bulletin.
COLLEGE OF COMMERCE

FACULTY

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

CHARLES BYRON WRIGHT, G. S.,
Dean.

LEWIS J. ROYER, B. C. S.,
Principal,
Bookkeeping, Banking, Auditing, Higher Accounting.

STRAWDER ARTHUR RINGER, B. C. S.,
Salesmanship, Advertising, Banking, History of Commerce,
Commercial Geography.

EMMET ELIJAH LONG, B. C. S.,
Penmanship, Commercial Arithmetic, Spelling,
Rapid Calculation, Freehand Drawing.

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

WILLIAM W. RUNSER, LL. B.,
Commercial Law, Contracts, Negotiable Paper,
Private Corporations.

WILLIAM H. TRAINUM, A. M., B. D.,
Economics.

RUDOLPH H. RAABE, PH. G.,
Advanced Arithmetic.

RICHARD H. SCHOO NOVER, A. M.,
Grammar, Orthography.

CHILDE HAROLD FREEMAN, B. S.,
English.

-----------------------------
Rhetoric.

ALFA HOLMES,
Registrar.
Aim

The College of Commerce was established shortly after the founding of the University, and was the first department in the institution to train young people along industrial lines. While one of the oldest special departments of the University, it is one of the newest and best in equipment, quality of instruction, business ideas and high standing. Its purpose is to prepare young men and women to "do things" in the world of commerce. It seeks to cultivate in them a healthy respect for business in all its branches because of the marked and manifold part it plays in modern civilization, to arouse an interest in the higher welfare of society and to awaken an ambition to become intelligent, open-eyed, public-spirited and successful men and women of affairs.

Location and Equipment

The College of Commerce is now housed in the magnificent Lehr Memorial costing One Hundred Thousand dollars. It occupies the entire third floor with a complete new equipment throughout:—individual bookkeeping desks, writing tables, up-to-date office furnishings for class use, Remington and Monarch typewriters, Burroughs adding machine, modern books of accounting, filing cabinets, guides, bulletins, and all other furnishings, means and appliances to make the instruction as efficient as possible. The quarters are roomy, with an abundance of light, heat, ventilation and toilet conveniences.

The Courses of Study

The courses of study are thorough, practical and comprehensive, including all the branches that are necessary to qualify young men and women for successful business, stenographic and teaching careers, as well as to supply foundation material for lives of usefulness and executive leadership. These courses are the result of constant revision and improvement for a half-century.

Time Required

It requires about three quarters to complete either of the short courses in Business and Stenography, the length of time depending on previous educational preparation, application, aptness and so on.
The long courses in Business and Stenography require about four quarters after graduation from a first class (four year) high school course, or the completion of preparatory work equivalent thereto. All or a part of the preparatory work may be taken in the Preparatory School of the University, without additional expense for tuition.

Promotions

Students are promoted as rapidly as they advance in their work, but no student is permitted to enter a next higher class until he has completed and made correct all work prerequisite to and preceding the more advanced subjects. No student is held back in his bookkeeping work if he be able to progress more rapidly than the others of his class, yet all class recitations must be regularly attended.

Degrees

Those who complete the Short Business Course receive a certificate with the rank, “Graduate in Commercial Science;” those completing the Long Course in Business have conferred upon them the degree of “Bachelor of Commercial Science;” those completing the Short Stenography Course are ranked as “Graduates in Stenography,” while those completing the Long Stenography Course win the degree of “Bachelor of Stenography.”

Diplomas

Neatly executed diplomas are awarded to those completing any regular course of study. The fee for the Certificate of Graduation is $2.00; the Bachelor Diploma is $4.00. Those desiring parchment will pay an additional one dollar.

When to Enter

The instruction is imparted by the class method, but after the first term a great part of it is individual. Nearly every subject is offered from two to four times a year. All courses in Bookkeeping and Stenography are offered four times a year. In view of these facts, students are admitted at the beginning of any quarter. For opening dates see Calendar on the fourth page of the catalogue.
Those desiring to take Penmanship, Typewriting, or a review of the regular branches, may enter at any time.

Positions for Students

Positions are not guaranteed, but great pleasure is taken in assisting worthy graduates to secure situations. The efficient student who is qualified need have no worry about obtaining a position; the only cause for anxiety should be how to hold a position.

The O. N. U. Commercial Club

Within the department, maintained by the students themselves with the faculty as an advisory committee, is a live commercial club. It convenes as often as it desires and discusses all phases of commercial work from that of class work to the most technical and general commercial topics of the day. Frequent addresses are given by bankers, business men, professors and by the students themselves. The advantages to be derived are many, and each student is advised to become a member.

University Advantages

Besides the advantages of the College of Commerce the University offers to every student additional privileges: Admission to the regular classes in the College of Liberal Arts without extra charge; the opportunity of obtaining military instruction, of participating in literary work in the three literary societies that have made Ohio Northern University famous; and the benefits of college environment and associations, lectures, athletic tournaments, contests, etcetera.

The opportunity to develop the ability to speak in public, so essential to every business man, is alone worth careful consideration. Board and rooms are at a minimum in cost.

Inspection Invited

All departments of the College of Commerce are open to inspection at all times and prospective students and others interested in the work are gladly welcomed.

Send Names

If you know of any who may be interested in Commercial
education, kindly send their names, and a personal letter accom-
panied with the latest bulletin or catalogue will be mailed to
them.

**BUSINESS AND BANKING DEPARTMENT**

The Department is particularly proud of the strong Business
Courses offered, which are practical and comprehensive through-
out and are designed for those who desire to begin office work
immediately upon completing their courses and for those who
expect to enter the field of commercial teaching. A graduate of
this department, because of the diversity and scope of his train-
ing, is ready to adapt himself to the varied conditions and ex-
periences that confront him in the business world.

**Courses of Study**

**1. Short Business Course**

Diploma: Graduate in Commercial Science.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Arithmetic</td>
<td>Commercial Law (or Business English)</td>
</tr>
<tr>
<td>Introductory Bookkeeping</td>
<td>Commercial Arithmetic</td>
</tr>
<tr>
<td>Penmanship</td>
<td>Penmanship</td>
</tr>
<tr>
<td>Typewriting and Manifolding</td>
<td>Practical Bookkeeping (Actual Business)</td>
</tr>
<tr>
<td>Spelling and Rapid Calculation</td>
<td>Typewriting and Mimeographing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Business English (or Commercial Law)</td>
<td></td>
</tr>
<tr>
<td>Banking and Office Practice</td>
<td></td>
</tr>
<tr>
<td>Salesmanship and Advertising</td>
<td></td>
</tr>
<tr>
<td>Thesis</td>
<td></td>
</tr>
</tbody>
</table>

**2. Long Business Course.**

Degree: Bachelor of Commercial Science.

A more extended course is here scheduled for those intend-
ing to teach in Commercial Schools or desiring more advanced
training.

This course leads to the degree, "Bachelor of Commercial
Science," and the candidate must have as a prerequisite a first
class (four year) High School education or its equivalent in some
recognized preparatory school.
FIRST QUARTER
Economics I.
Introductory Bookkeeping
Penmanship
Typewriting and Manifolding
Spelling and Rapid Calculation

SECOND QUARTER
Commercial Law (or Business English)
Economics II.
Penmanship
Practical Bookkeeping (Actual Business)
Typewriting and Mimeographing

THIRD QUARTER
Commercial Arithmetic
Business English (or Commercial Law)
Banking and Office Practice
Salesmanship and Advertising

FOURTH QUARTER
Higher Accounting
Contracts or Negotiable Paper
Lettering
History of Commerce and Commercial Geography
Thesis

Those desiring may have extensive practice in Auditing by assisting the professor or assistant in charge of the books in the Office Practice and Banking classes.

Students desiring credit for work in bookkeeping done elsewhere must present all their books worked out and properly arranged, or pass a satisfactory examination on that subject.

Students are required to take Advanced Arithmetic or pass an entrance examination therein.

Any class in the department of mathematics of the University is open to commercial students without extra charge.

Special Short Business Course
(Winter Quarter Only)

A special short course in business covering a period of twelve weeks, (one quarter) is offered. This course is designed for those desiring a knowledge of bookkeeping and other commercial subjects, but are unable, on account of farm work and other causes, to pursue the work for a longer period, and only during the winter months.

It covers the fundamental and scientific principles of double entry bookkeeping, the various forms of commercial paper such as notes, drafts, checks, bank drafts, besides the subjects outlined below.

This course is especially valuable to farm boys and girls who desire to keep modern books of account and for those who desire it, special instruction will be given in the application of bookkeeping to the farm and home.
Neatly designed certificates are awarded those who wish them for a small fee of $1.00.

Outline of Course

Bookkeeping, advanced arithmetic, commercial law, spelling and rapid calculation, penmanship.

A certificate from this course will be accepted as the first term's credit for either of the other more extended courses, with the exception of typewriting.

Description of Courses

Introductory Bookkeeping. A thorough study of the fundamental principles of bookkeeping. When the student has finished this work he is familiar with journalizing, posting, closing ledgers, making trial balances and financial statements, the use of the sales book, invoice book, cash book and various other individual books, and has had a thorough review in drafts. He knows about partnership bookkeeping and all its kindred phases, and has a good knowledge of debits and credits. After passing a written examination he is promoted to the actual business and bookkeeping class.

Actual Business. Bookkeeping and business principles taught by actual use.

Each student is given a capital with which he launches into business for himself, claiming his attention and ability and requiring him to bring into practical use all he has previously learned. He becomes familiar with all kinds of negotiable paper; does business with the offices and fellow classmates, using daily market quotations; keeps his money in three banks; discounts notes, leaves drafts for collection, protests notes; balances his books and proves his cash every day. He does business in turn as individual proprietor, with one partner, with two partners, with three partners, and then at the end changes from a partnership business to a corporation and does business as such, declaring dividends, making assessments, et cetera, until all transactions in the College of Commerce Guide are completed and a written test is passed when he is promoted to office practice.

Real Estate and Insurance Office. Students buy and sell real estate, and all deeds, leases, and mortgages are filled out by the student in charge. The most modern card system and special
column books are used. All rents and recording fees are paid to
and by this office, just as in the actual real estate business of to-
day. Policies are filled out, premiums collected, damages ad-
justed, et cetera. Every policy is carefully recorded in a mod-
ern Insurance Policy Register. Use is made of the essential
books of account that go with this business.

Stock Exchange. In this office the student buys and sells
stocks and bonds of every kind, using the daily quotations pub-
lished in the newspapers. He charges brokerage for buying and
selling, sells above and below par just as quoted and is thorough-
ly drilled in premium and discount. He buys and sells bonds,
declares and pays dividends, makes assessments and does business
with three banks.

Commission Office. In this office an extensive commission and
shipping business is carried on daily. The most modern station-
ery, account sales and account purchase duplicating forms,
special twelve column journals, check books, filing apparatus,
and so on, are used. There is thorough training in Consign-
ments, Shipments and in handling “order” and “straight” Bills
of Lading.

Freight Office. Here the details of the shipping business are
learned. Goods are shipped prepaid, or C. O. D., and use is
made of the modern “order” and “straight” Bills of Lading,
freight registers, cash books and other books necessary to carry
on the work successfully.

Wholesale Office. Students sell “actual” merchandise, using
daily market quotations, and keep all records in special column
Sales Books, Invoice Books, Cash Books and Bill Books. They
sell direct or ship to any party, when ordered by mail, prepay-
ing the freight or otherwise, as directed. They have a complete
filing system and use all forms of paper incidental to this business.
All bills are paid by drafts on the Exchange Bank.

Post Office. The aim is not to teach all the ever changing in-
tricacies of the U. S. Post office, but to give instruction in selling
Postal Money Orders to those wishing to remit for consignments
received, by money order. This way they learn at first hand
what to do with fees charged for such orders, and also how to
receipt and endorse a money order properly as provided by the
government. Special registers, et cetera, are used in all the work. The department letters are also delivered through this office.

Banking. Three banks are in constant operation, and doing on the average as much business as a regular small city bank. The installation of a fourth bank at the beginning of the new year is planned, to embody the new ideas that come with the change in the new national banking law. Each bank is conducted in a different manner from a clerical standpoint, but all do the same amount of business. Modern individual or depositors ledgers, card ledgers, loose leaf ledgers, discount registers, collection registers, certificate and draft registers, cash books, et cetera, are used in all the banks.

Extensive practice is given in discounts, in the handling of certified checks, certificates of deposit, bank drafts, certificates of stock, collections, individual, local and foreign checks, protests, foreign bills of exchange, cashing of checks and in making remittances to a correspondent daily.

The student acts as cashier, teller, bookkeeper, and has full charge of the entire banking business. Great care is required throughout, especially in filing and indexing, and in closing pass books.

All work done by students is audited daily and the student is informed of his errors, if there be any.

Higher Accounting. This work consists of a number of sets giving advanced instruction in commission, real estate, banking, corporation, manufacturing, railroading and wholesaling. It gives the student specialized accounting along the lines named, increasing his efficiency much more than a general training alone can do.

Duplicating devices, loose leaf accounting, voucher accounting, real estate titles, and many other similar subjects are given attention.

The models followed may be applied to all lines of business. The use of the modern check register and the central office system in the manufacturing business are thoroughly presented.

Salesmanship. Ten years ago there was no such thing as a Science of Salesmanship or a Science of Business. Today the
student must be trained in these sciences to meet the new condition.

In the past, business and selling were conducted by guess; today, one must know the reason why. To know the reason why is to enormously increase individual efficiency.

In conjunction with salesmanship, special attention is given to the science and art of advertising in its application and relation to commerce and modern business methods.

**Commercial Geography.** A complete exposition of the geographical conditions that affect and determine the commerce of the different nations of the world, and particularly those of our own country.

**History of Commerce.** A thorough study of the history of commerce from its earliest beginning to the present day. A valuable review of history in a general sense as well.

**Commercial Law.** Those topics are taken up that every business man should understand: contracts, negotiable papers, agency, partnership, corporations, liens, interest and usury laws, common carriers, bailments, guaranty and suretyship, stoppage in transit, bankruptcy, mortgages, deeds, real and personal property, et cetera; the aim being not to make lawyers, but to teach the essentials of the law so as to enable one to defend his own rights.

**Economics.** Two terms. An investigation of the conditions and laws affecting the production, distribution and consumption of wealth, and of the elements, developments, structure and processes of economic life. All commercial students may pursue this subject, yet none but candidates for a degree are required to do so.

**Rapid Calculation.** Drill in speed and accuracy in figures. The student is required to take special work in this subject, and later it is combined with Arithmetic and Bookkeeping. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it for the greater part mentally.

**Advanced Arithmetic.** Classes in Advanced Arithmetic are formed in the Preparatory School in which all commercial stu-
students when beginning take a thorough review of that subject. In order to suit the degree of advancement of students, it is generally divided into two sections.

**Commercial Arithmetic.** Emphasis is placed on billing, percentage and its applications, interest and banking, discounts, insurance, stocks, bonds, adjusting partnership accounts, averaging, et cetera.

The course covers the ground thoroughly from beginning to end, and the student mastering it solves all kinds of problems met in the ordinary transaction of business.

**Spelling.** Regular and systematic drills in written and oral spelling are given in both the bookkeeping and stenographic courses. All students are required to take part in the spelling drills and pass a satisfactory examination.

**Theses.** Every student expecting to graduate must prepare a thesis upon some commercial or economic subject lying within the field of the degree sought; the subject to be selected by the instructor or principal in charge, or by the student himself if the instructor so directs. In the latter case the subject selected must be approved by the instructor.

The preparation of all theses must begin at least one term in advance of graduation, and the form of the finished thesis be in accordance with the requirements of the department.

In the "Short Business Course" a minimum of fifteen hundred words is required, and in the "Long Business Course" a minimum of twenty-five hundred words. All these must be completed and deposited with the principal at least two weeks before the conferring of the degree or graduate rank.

**STENOGRAPHIC DEPARTMENT**

**Shorthand Reporting**

Young men and women cannot engage in a more lucrative business than shorthand reporting. The expert stenographer and the shorthand teacher are in demand, and the emoluments are greater and are received at an earlier stage of study than in any other pursuit. 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.

Advantages of Ohio Northern

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 courses. 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, letter-press 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 costs less than the "Short Courses" advertised by many city Business Colleges.

The University office as well as the office of the deans of the departments of the school furnish advanced students a fine opportunity for practical office work, both in the dictation of their correspondence and in general office work. The dictation work covers nearly all lines of business, so that 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.

Systems

The Graham System is taught to all beginners, but the department is prepared to teach any other leading Pitmanic system to commercial teachers who are required to teach any of them where they are employed. The writer of any system who has progressed in his course at some other school far enough to understand the principles thoroughly and who is able to take dictation, will be allowed to enter the dictation classes and write his system.
Typewriting and Mimeographing

All students of the College of Commerce are required to take training in the operation of the typewriter. The Touch system is taught. After the student has learned to operate the machine he is drilled in letterwriting, copying, manifolding, letter press work, forms, punctuation, paragraphing, capitalization, tabulated work, filing letters, mimeographing, and all the general work of a business office.

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

All the typewriters consist of the latest models of the Remington and Monarch.

Business English and Letterwriting

In the modern conduct of business, the whole machinery is kept in operation by means of the business letter. The student here is given a thorough course in practical letter writing, including reviews in punctuation, capitalization, correct English, postal information, and general office information. Business English is required in all courses.

Courses of Study

1. Short Courses in Stenography

Diploma: Graduate in Stenography

FIRST QUARTER
Stenography I.
Typewriting and Manifolding
Spelling
Business English and Letter writing

SECOND QUARTER
Stenography II.
Typewriting and Manifolding
Penmanship
Letter Writing

THIRD QUARTER
Stenography III. (Office Practice)
Typewriting and Mimeographing
Penmanship
2. Long Course in Stenography

Degree: Bachelor of Stenography

FIRST QUARTER
Stenography I.
Business English
Economics I.
Spelling and Rapid Calculation
Typewriting and Manifolding
Letter writing

SECOND QUARTER
Stenography II.
Commercial Law
Economics II.
Penmanship
Typewriting and Manifolding

THIRD QUARTER
Stenography III.
Commercial Arithmetic
Typewriting and Mimeographing
Penmanship
Salesmanship and Advertising

FOURTH QUARTER
Stenography IV. (Office Practice)
Typewriting and Mimeographing
Lettering
Introductory Bookkeeping
Contracts or Negotiable Paper

PENMANSHIP DEPARTMENT

A neat and graceful handwriting, always appreciated, is indispensable to the bookkeeper and correspondent. No other accomplishment save typewriting is of more value to the stenographer. The applicant for employment who writes a good business hand stands a better chance for employment and advancement than the one who writes a poor business hand. A good handwriting therefore, is more than a mere accomplishment—it is a real necessity.

The old idea that good writers are born and not made, that in order to learn to write, one must be especially endowed by nature is no longer recognized. Any student mentally and physically sound, willing to follow instructions and to work can acquire a plain, rapid, legible, business hand while pursuing a business and shorthand course.

The system of teaching employed in the department, develops a plain, rapid and useful style of handwriting; no time is wasted in useless practice or scribbling.

All students in the business and stenographic departments are admitted to the classes in business penmanship without extra charge.

Certificates are granted to all students who meet the requirements, based on speed, legibility, accuracy and neatness.
Tuition—Penmanship

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

General penmanship free to all departments.

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

All students in the College of Commerce are admitted to the regular classes in the College of Liberal Arts without extra charge.

By paying $2.00 additional they are admitted to the College of Law.

For further information regarding tuition and fees of this department see EXPENSES, pages 28 and 29 of this bulletin.
COLLEGE OF PHARMACY

FACULTY

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

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

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

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

FRANK LEWIS BERGER, A. B.,
Physics.

HARVEY EVERT HUBER, A. M.,
Microscopy, Physiology, Botany.

HENRY WHITWORTH, A. B.,
Latin.

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

LEAH ASCHAM, A. B.,
Algebra.

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

ALFA HOLMES,
Registrar.

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

The College of Pharmacy of the Ohio Northern University, established in 1887, with constantly added facilities and enlarged plans, is endeavoring to prepare men and women to meet fully, not only the legal requirements, but also the increasing public demand for educated and trained pharmacists.

Advantages Offered Here

Since a majority of those seeking a school of pharmacy are looking for one where practical and thorough courses are offered at the least expenditure of time and money, attention is respect-fully 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.

The laboratories are large and an entire outfit is assigned to each student. Fully equipped to make all the various prepara-tions himself, he is thus enabled to receive the practical training desired and required by the employer.

Young women are admitted on an equality with young men.

The Ohio Board of Pharmacy and the Pennsylvania State Pharmaceutical Examining Board grant recognition to the gradu-ates of the O. N. U. College of Pharmacy, who have matricu-lated since September 1, 1905.

Requirements for Admission

Applicants for admission to the regular course leading to the degree of Graduate in Pharmacy must present a certificate of preliminary education from the Entrance Examiner of the State Board of Pharmacy.

"The minimum educational requirement for this certificate is the equivalent of eight units as given in a high school of the state of Ohio."

The State Board of Pharmacy announces as follows:

"Two units of credit maybe procured by examination in each of the following subjects: Latin, German, English, Manual Arts and Home Economics; one unit of credit in each of the following subjects: Algebra, Plane Geometry, General Science, World History and General History; one-half unit of credit in each of the following

When to Enter

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 the other departments of the University open. The College of Pharmacy, therefore, opens on Tuesday, September 26, 1916, 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.

General Scope of the Subjects Offered

First Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materia Medica</td>
<td>220</td>
</tr>
<tr>
<td>Chemistry</td>
<td>260</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>250</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materia Medica</td>
<td>225</td>
</tr>
<tr>
<td>Chemistry</td>
<td>285</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>215</td>
</tr>
</tbody>
</table>

It will be noticed that while the "1913 Syllabus" prescribes a two-year course of fifty weeks and 1200 hours of instruction, the Ohio Northern offers a two-year course of sixty-four weeks and about 1500 hours of instruction.

COURSES OF THE JUNIOR YEAR

Materia Medica

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

General Materia Medica. In this course the student becomes acquainted with the general classification of drugs and medicines which have specific uses, such as astringents, carthartics, emet-
ics, nervines, sedatives, tonics and the like. 15 hours.

**Botany.** This course is devoted to the study of structural botany. Special instruction is given in vegetable histology, the laboratory work being carried on in class sections. 125 hours.

**Pharmacy and Toxicology.** A preliminary treatment of doses and poisons. 15 hours.

### Chemistry

**General Inorganic Chemistry.** A presentation of the fundamentals of this science. Carried throughout the year, non-metallic elements receiving special consideration in the first semester, metallic elements in the second, followed by a consideration of the application of chemistry to every-day life. 100 hours.

**Qualitative and Manufacturing Chemistry.** Laboratory work in inorganic chemistry. 130 hours.

**Physics.** The course in Physics is elementary, embracing both lectures and laboratory exercises. The student is made acquainted with the physical forces and their laws, particularly as they bear on the pharmacist's work. 36 hours.

### Pharmacy

**Theoretical Pharmacy.** In this course the student is taught the application of the various sciences in their bearing on the work of the pharmacist. The processes to be used subsequently in making up different preparations are discussed at length. The whole is a preparation for the practical work to follow. 64 hours.

**Practical Pharmacy.** The first part of the course includes practice in weighing, measuring, evaporation, distillation, sublimation, crystallization, granulation, dessication, precipitation, clarification, discoloration, filtration, percolation, extraction, torrefaction, incineration, ignition, maceration, digestion and the like. 30 hours.

In the second part the student is required to make preparations from each of the following classes: waters, solutions, syrups, honeys, mucilages, emulsions, mixtures, glycerites, spirits, elixirs, colodions, liniments, oleates, infusions, decoctions, tinctures, wines, fluid extracts, oleoresins, vinegars, extracts, resins, and official salts. 90 hours.
Pharmaceutical Arithmetic. A course in the arithmetical calculations required in general compounding and dispensing. Special attention is given to the metric system and the changing from one system to another. 32 hours.

Pharmaceutical Latin. A course to familiarize the student with the etymology and construction necessary in understanding the nomenclature used in the United States Pharmacopeia and National Formulary. 32 hours.

COURSES IN THE SENIOR YEAR

Materia Medica

General Materia Medica. This is a continuation and extension of the work begun in the Junior year, part of which is seminar and research.

Posology. This course is very thorough. The doses of the drugs and medicines of the U. S. P. and N. F. for internal use, are carefully considered. The quiz method is employed extensively. 15 hours.

Toxicology. A course dealing with poisons—their detection, symptoms, action, antidotes, etc. This course is much more extended than in the Junior year. 15 hours.

Dynamics—Pharmacology and Therapy. In this course the student is taught the classification of drugs and medicines as to their action on healthy and disordered organs of the body. The instruction is given through both lecture and laboratory methods. 80 hours.

Pharmacognosy. In this course the student is taught how to identify the different medicinal plants afield. He is required to learn the official names, parts used, habitat and family, together with the constituents, commercial source, adulterations and how detected. Laboratory exercises, microscopic work with charts and lantern slides, are extensively employed. 96 hours.

Chemistry

General Organic. The first part of the course deals with the hydro-carbons and carbo-hydrates. Two days each week are spent in laboratory experimentation and three in class room exercises and lectures. 64 hours.
The second part consists of the quantitative determination of acids, bases and salts, covering the work of acidimetry and iodimetry, volumetrically; also the more important metallic salts, gravimetrically.

In this work the student meets the instructor each day in the lecture room before entering the laboratory for experimentation. 160 hours.

**Drug Assaying.** After acquaintance with the general principle of volumetric and gravimetric analysis the student is required to make alkaloidal assays of the standardized drugs, standardized pepsin and pancreatin, determine the iodine absorption, and saponification value of fats and volatile oils, the acid number of resins, and assays. 64 hours.

**Pharmacy**

**Practical Pharmacy.** In addition to the more difficult preparations listed under the Junior course the student is required to make preparations from the following classes: Cerates, ointments, pills, plasters, papers, powders, troches, suppositories, wines, confections, masses, pencils, medicated gauzes, etc. 64 hours.

**Prescriptions and Dispensing.** This course includes the interpreting and filling of prescriptions, a study of incompatibilities, sterilization of gauzes, bandage solutions and surgical instruments. 64 hours.

**Commercial.** In this course the student is made acquainted with the business side of the drug business; bookkeeping, business correspondence, contracts, negotiable paper, salesmanship and kindred topics are discussed. 75 hours.

**Jurisprudence.** The Harrison Narcotic Law and the new state laws, with other matters of importance to the pharmacist are considered. 16 hours.

**Requirements for Graduation**

Each student is required to pass with satisfactory grades an examination at the end of each month’s work, and the final examination upon the entire course. There will be no deviation from this rule. Absence from final examination forfeits the degree.
The degree conferred is that of Pharmaceutical Graduate, (Ph. G.).

Laboratories

The College has two Pharmaceutical and Dispensing Laboratories complete in every detail. The desk arrangement is such as to afford the student every facility for complete and thorough work, and the tables are supplied with an entire outfit of apparatus, including storing closet.

The laboratory for practical chemical work is also fully equipped with all the accessories necessary in obtaining a thorough knowledge of chemical analysis and synthesis. There has been added for advanced courses a complete outfit for gold and silver assaying and other metallurgical work. The equipment is excellent in every particular and the work very practical. In this laboratory the student is required to perform a satisfactory amount of analytical and synthetical work under the personal attention of the Professor of Chemistry and an able assistant.

Expenses

For expenses, see pages 28 and 29 of this catalog.
COLLEGE OF MUSIC

FACULTY

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

ROYAL DELANY HUGHES, A. B.,
Dean.
Voice, Theory.

EDWIN LAURENCE ALLEN, A. B.,
Organ and Piano.

ALETA ROSE BOWERS,
Voice and Piano.

GAIL WATSON,
Violin.

PAULINE ABT,
Children's Piano Department.

BERTHA KING,
Assistant in the Vocal Department.

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

ALFA HOLMES,
Registrar.

Aim

The music department of the Ohio Northern University aims at high standards, elevation of taste and conscientious work along musical lines. By virtue of its faculty and equipment it stands ready to give solid, fundamental training in the various branches to all its pupils, and to advance them to a graduation creditable to them and to the University. The school is equally suited to those specializing in music and to those desiring to avail themselves of certain of its advantages, while following some other line of university work.

Equipment

The equipment of the music building is complete. The lower floor is used for teachers' studios, a reception room and a small recital hall. The upper floor is given over entirely to pupils'
practice rooms, thus providing ample room for all the students in the department; these rooms are well lighted, heated and ventilated and equipped with new pianos of good make. The grand pianos on the first floor give pupils the advantage of using the best instruments in public performance.

Lehr Auditorium furnishes an excellent place for public recitals and concerts; this building is equipped with a grand piano and a new pipe organ.

Department and Courses

VOICE

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

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

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

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

It is advised that voice pupils study German, French and Italian.

PIANOFORTE

Unlike the courses in theory, where all students pursue the same general plan, instruction in piano playing involves a special adaptation to the needs of the individual pupil. A careful study of each student's deficiencies and previous habits of work is made
and technical studies and pieces best adapted to his needs are given him. Music is a means of intellectual culture and artistic enjoyment; the works of the best masters are therefore employed through all grades.

Preparatory. Table and piano work for development of finger and wrist muscles; major and minor scales, chords and arpeggios; studies from Duvernoy, Loeschhorn, Heller; sonatinas and selected pieces by Clementi, Kullak, Kuhlau and others.


Advanced Collegiate. Turner Octave Studies; technical work from Joseffy, Pischna; Tausig Daily Exercises; Selected Studies. Clementi’s Gradus ad Parnassum; Bach’s Well-Tempered Clavichord; Henselt Studies; Chopin Etudes; Compositions from the old masters and best modern composers. Concertos by Mendelssohn, Beethoven, Chopin, et cetera.

Pupils must have thoroughly studied and be able to render in a creditable manner the following compositions before entering the graduating year:

One Haydn Sonata, one Mozart Sonata, two Beethoven Sonatas, two Preludes and Fugues from Bach’s Well-Tempered Clavichord; one each of the following list by Chopin: Mazurka, Waltz, Nocturne, Polonaise, Etude; two compositions by Schubert and two by Schumann; also three compositions by modern composers.

Courses for Children

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

The policy of the school through the entire course is not to adhere strictly to any one so-called “method”; the instructors, after careful study, have selected the best features in various
methods, and offer to the students a course of training unexcelled in any conservatory.

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

**ORGAN**

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

**Prerequisite.** A degree of advancement in piano satisfactory to the music faculty.

**First Year.** Studies by James H. Rogers, George Whiting and Gustave Merkel. Pedal Studies by Dunham and Schneider. Hymn playing.

**Second Year.** Twenty Preludes and Postludes, Bk. I. Whiting. Pedal Studies by Buck and Wilson. Selected pieces by Harker, Bibi, Kinder, et cetera.

**Third Year.** Preludes and Fugues, Books I. and II., J. S. Bach. Sonatas by Mendelssohn. Selected pieces by Buck, Lemare, Dickinson, Dubois, et cetera.

**Fourth Year.** Preludes and Fugues, Books III. and IV., J. S. Bach. Selected pieces by Guilmant, Saint Saens, Boellman and by other composers, classical and modern.

**VIOLIN**

**Preparatory.** Violin methods of Polanaski, Schraedick and DeBeriot; Etudes of Alard and Kayser; O'Sencik, School of Bowing Technique; Solos by Dancia, Sitt, Bohn, Seity, et cetera.

**Intermediate Collegiate.** Etudes of Blumenstengel, Mazas, Dont; Technique Preparatoire de Seveik; Concertos of DeBeriot, Viotti, Krentzer; Solos, Obertass of Wienianiski, Andante and Scherzo of David, Ballade et Polonaise of Vieuxtemps, Russian Airs of David.

**Advanced Collegiate.** Etudes of Krentzer, Fiorillo and Rode;
Techniqual Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerweisen of Sarasate; Mazurka of Musin: Romances of Beethoven; Suite of Sinding.

THEORY, HISTORY AND EAR TRAINING

The Course in Theory is twelve weeks long, classes reciting twice a week. It includes the elements of Acoustics and Tone Quality; a description of the Orchestra and its Instruments; Accent, Rhythm and Tempo; Outlines of Motive Transformation and Thematic Treatment; Explanation and Analysis of Musical Form; Textbook, "Theory of Music" by Louis C. Elson; the text is supplemented by work in other texts and additional analysis of form.

The Course in Ear Training is twelve weeks long and is a requirement of all first year harmony students. In this class the pupil is taught to recognize by ear and express in writing, rhythms, intervals, melodies, chords, chord progressions and modulations.

The work is carefully graded from the simplest studies in the major scale to those involving difficult problems in both rhythm and intervals. In general, the course follows the textbook, "Ear Training" by A. E. Heacox.

The Course in Musical History is thirty-six weeks long, beginning with the fall quarter or at other times if a sufficient number desire it. Classes meet twice a week.

The aim of the course is to trace the art of music from its beginnings to its present state. Much time is devoted to the lives of the greatest composers and to a careful study of representative works of each. Due consideration is also given to the development of the larger forms. The text used is "A Study of the History of Music" by Edward S. Dickinson and this is supplemented by lectures and collateral reading.

HARMONY

The text used in this course is "Lessons in Harmony" by Heacox and Lehmann, supplemented with collateral texts and reference books. The four quarters of work in this subject required for graduation are as follows:
First Quarter. A thorough knowledge of keys, scales, signatures, intervals and triads, gained by frequent oral and written drill. Use of primary and second triads, the dominant seventh and supertonic seventh chords. Playing of cadences at the keyboard.

Second Quarter. The dominant ninth and secondary seventh chords. Writing of original hymn tunes. Modulations to nearly related keys written and played.

Third Quarter. Advanced studies in secondary seventh chords. The augmented sixth, augmented six-five, augmented six-four-three, doubly augmented fourth, and Neapolitan sixth chords.

Fourth Quarter. Modulation to remote keys, written and played. The suspension, retardation, passing tone, embellishment, appoggiatura, anticipation, pedal point and figuration.

COUNTERPOINT

The textbook used in Counterpoint is “Simple Counterpoint” by F. J. Lehmann. The two quarters of work in this subject required for graduation are as follows:

First Quarter. (Prerequisite, Harmony I., II., III., IV.) Simple Counterpoint in two parts, in all species and combinations. Three part counterpoint in first, second and third species.

Second Quarter. Completion of three part Counterpoint; four part Counterpoint; Imitation.

HARMONIC ANALYSIS

The one quarter of work in this subject required for graduation is devoted to a study of parts of the text “Harmonic Analysis” by F. J. Lehmann.

PUBLIC SCHOOL MUSIC

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

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

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

Graduation

To finish any of the courses (Voice, Piano or Organ) with credit usually requires four years of work, the exact time depending upon the talent and industry of the pupil. No pupil is allowed to finish with fewer than two lessons a week during the senior year. A diploma is awarded upon the satisfactory performance of a public recital and the completion of work indicated in the following outline:

Voice. Harmony, 4 quarters; Counterpoint, 2 quarters; Harmonic Analysis, 1 quarter; Musical History, 3 quarters; Theory, 1 quarter; Ear-training, 1 quarter: enough Piano to play accompaniments.

Piano. Harmony, 4 quarters; Counterpoint, 2 quarters; Harmonic Analysis, 1 quarter; Musical History, 3 quarter; Theory, 1 quarter; Ear-training, 1 quarter; Voice or Violin, 3 quarters.

Organ. Harmony, 4 quarters; Counterpoint, 2 quarters; Harmonic Analysis, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-training, 1 quarter; 3 quarters Voice or Violin; creditable knowledge of Piano.

Violin. Harmony, 4 quarters; Counterpoint, 2 quarters; Harmonic Analysis, 1 quarter; History of Music, 3 quarters; Theory, 1 quarter; Ear-training, 1 quarter; Piano, 3 quarters.

Post Graduate Work is in all departments.

Teachers' Course

This course is especially for those pupils who are not gifted as performers but are qualified to teach. Those completing the Teachers' Course are not required to give a public graduating recital but will render a suitable program at one of the Tuesday evening recitals.

The theoretical subjects for this course are the same as for the diploma course, and in addition the student will be required to take nine hours pedagogical work.
Public School Music

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

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

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

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

Recital

Pupils' Recitals. Pupils' recitals are held at seven o'clock every Tuesday evening during the first three quarters except the first Tuesday in each quarter; recitals are held at irregular intervals during the summer quarter. At these recitals pupils of all grades of advancement are given the practice and experience of appearing before the music students and faculty. A part of each recital consists of a lecture by some member of the music faculty; the subjects are chosen with a view to broadening the pupil musically and giving him higher standards and ideals.

The pupils' recitals are not private, but the attendance of the public is not urged. Near the last of each quarter, however, a recital is given at which the best work done by students during the quarter is performed and the public is invited.

Faculty Recitals. At intervals the faculty of the College of Music presents a program of such nature as to further the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils come in contact with the great musical personalities and hear the best music well performed. To maintain the course, each pupil is required to pay a small fee each quarter.

The formation of the Ada Music Association, which has for its purpose the bringing of the best musical talent to the city,
has made it possible for students to hear a higher grade of artists than heretofore. All students who have paid the Artists' Recital Fee are admitted to the recitals of the association.

The artists who have lately appeared on this course are, Josephine DeSylva, Contralto, Boston Opera Co., Jane Noria, Dramatic Soprano, Paris Opera Co., Arthur Middleton, Bass Baritone, Metropolitan Opera Co.

**Choral Society**

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

**Choirs**

Choir work is of marked value in a musical education. All advanced voice students should take advantage of its benefits.

The chorus choir in the First Methodist Church is directed by Professor Hughes. Only the best of church music is performed.

Other churches of the town welcome students to their choirs.

**Rudiments and Sight Singing.**

A course in Rudiments and Sight Singing is given twice a year,—in the winter quarter and in the summer quarter. The class meets twice a week and is free to all university students.

**Other Organizations**

Besides the musical organizations and classes already mentioned, there are orchestras in each of the three literary societies, a university orchestra, band, male chorus, male quartets, and so forth.

**Tuition**

Voice, Piano, Organ or Violin, quarter of twelve weeks,

- two lessons a week .............................................. $20.00
- One lesson a week .................................................. 12.00

For either of the six-weeks summer terms, Voice, Piano, etc., two lessons a week .......................... 12.00
- One lesson a week .................................................. 7.00
CHILDREN’S DEPARTMENT

Piano, quarter of twelve weeks, two lessons a week .......... 10.00
One lesson a week .................................................. 6.00

CLASS LESSONS

Harmony, per quarter ......................................................... $ 7.50
Counterpoint, per quarter .................................................... 7.50
History of Music, per quarter .............................................. 4.00
Theory of Music, per quarter .............................................. 4.00
Ear Training, per quarter ................................................... 4.00
Public School Music, per quarter ...................................... 10.00
Public School Music, per six weeks term .......................... 6.00

Expenses

Piano rent, one hour a day, per quarter ............................ 2.50
Rent of Pipe Organ for practice, one hour a day per
quarter .............................................................................. 12.00
Artists’ recital course fee, per quarter .............................. .75

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

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

Scholarship

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

Graduation Fees

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

Certificates are awarded to students completing the Teachers’
Course in any of the above subjects, and to those completing the course in Public School Music. The graduation fee in these courses is $2.00.

Regulations

1. All tuition payable in advance.

2. Lessons lost with reasonable excuse will be made up where pupil has given teacher twenty-four hours notice of intended absence.

3. Credit will be given for work done elsewhere, and the pupil will be permitted to enter the grade for which he is prepared.

4. Each pupil is required to fill out individual practice records and hand same to his teacher each week; these reports determine seventy-five per cent of the pupil's grade.

5. Practice rooms in the Music Building are provided for non-resident pupils.

COLLEGE OF AGRICULTURE

FACULTY

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

RALPH BURL SIMON, B. S., Agr.,
Dean.
Rural Economics, Animal Husbandry, Agronomy.

HARVEY EVERT HUBER, A. M.,
Biology, Geology.

FRANK LEWIS BERGER, A. B., B. S.,
Physics.

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

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

WILHELM CLAUDIUS GROTH, A. B.,
Modern Foreign Languages.

STRAWDER ARTHUR RINGER, B. C. S.,
Bookkeeping, Banking, Higher Accounting.

ALVA E. ROCKWELL,
Farm Superintendent.

ALFA HOLMES,
Registrar.
Equipment

The College of Agriculture was established in 1909, and it is gratifying to note the steadily increasing attendance, and also the growth in facilities and resources. Choice animals and new equipment are constantly added, so that this department is now sufficiently equipped to teach in a scientific manner all the branches outlined in the curriculum. A fine farm of fifty acres is at its disposal, the east entrance of which lies just two squares west of the campus.

Four Year Curriculum

This curriculum, leading to the degree Bachelor of Science in Agriculture, and designed to meet the growing demand for trained agriculturists, offers a thorough training in the science of agriculture and modern methods of agricultural practice. The plan of study is intended to give students a broad education and fit them for the business of farming. It presupposes that the student has had a high school training or its equivalent and knows something of general farm practices. Fifteen entrance units are required. 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. Subjects pursued for a less time are given a proportionate value. A student may enter, however, conditioned in three units, provided the conditions are removed before the senior year. A total of 200 hours is required for graduation.

ADMISSION

Candidates for admission to the course leading to the degree of Bachelor of Science in Agriculture must present

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2½</td>
</tr>
<tr>
<td>History</td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>9½</td>
</tr>
</tbody>
</table>

and one of the following groups:

A—Latin
B—German
C—French

<table>
<thead>
<tr>
<th>Group</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>11½</td>
</tr>
</tbody>
</table>

and in addition, any 3½ units taken from the following list: Zoology, Geology, Astronomy, Chemistry, English History, Economics, Solid Geometry, Plane Trigonometry, Advanced Arithmetic, Latin, Modern Languages. In place of some of the subjects just named, other academic subjects of equivalent value may be presented.
OUTLINE OF FOUR YEAR CURRICULUM
Degree: Bachelor Science in Agriculture

First Year

FALL QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Husbandry I</td>
<td>4</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
</tr>
<tr>
<td>College Rhetoric I</td>
<td>4</td>
</tr>
<tr>
<td>Biology I</td>
<td>3</td>
</tr>
<tr>
<td>Cadet Service</td>
<td></td>
</tr>
</tbody>
</table>

WINTER QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Hus. II</td>
<td>5</td>
</tr>
<tr>
<td>Physics V</td>
<td>5</td>
</tr>
<tr>
<td>College Rhetoric II</td>
<td>4</td>
</tr>
<tr>
<td>Biology II</td>
<td>3</td>
</tr>
<tr>
<td>Cadet Service</td>
<td></td>
</tr>
</tbody>
</table>

SPRING QUARTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Hus. III</td>
<td>5</td>
</tr>
<tr>
<td>Physics IV</td>
<td>5</td>
</tr>
<tr>
<td>Advanced Literature</td>
<td>5</td>
</tr>
<tr>
<td>Zoology III</td>
<td>3</td>
</tr>
<tr>
<td>Cadet Service</td>
<td></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>Botany I</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>4</td>
</tr>
<tr>
<td>Agronomy II</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>Botany II</td>
<td>4</td>
</tr>
<tr>
<td>Geology I</td>
<td>3</td>
</tr>
<tr>
<td>Agronomy III</td>
<td>4</td>
</tr>
<tr>
<td>Cadet Service</td>
<td></td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Organic</td>
<td>5</td>
</tr>
<tr>
<td>Dairy</td>
<td>4</td>
</tr>
<tr>
<td>Agronomy I</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Organic</td>
<td>5</td>
</tr>
<tr>
<td>Animal Hus. V</td>
<td>4</td>
</tr>
<tr>
<td>Soil Fertility</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
</tr>
<tr>
<td>Chem. Quantitative</td>
<td>5</td>
</tr>
<tr>
<td>Horticulture</td>
<td>4</td>
</tr>
<tr>
<td>Bookkeeping</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
</tr>
</tbody>
</table>

Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics I</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics II</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
<tr>
<td>Rural Economics</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
<td>10</td>
</tr>
</tbody>
</table>

Ten or more hours may be selected throughout the year from any department.

Two Year Curriculum

A curriculum prescribed for students desiring a thorough practical working knowledge of modern agricultural science. It includes work of a general educational character followed by practical courses in crop production, animal husbandry, and farm management. A total of 100 hours is required for graduation. Young men intending to make farming their vocation will find in this curriculum a good preparation for a successful career.

OUTLINE OF TWO YEAR CURRICULUM

Diploma: Graduate in Agriculture

First Year
Special Winter Curriculum

The special winter curriculum in agriculture has been arranged to meet the demand of the average farmer boy who in these days of high priced labor must help with the work late in the fall and early in the spring. This is offered during the winter quarter only, thus enabling young men to come in after the fall work is done and get out in time for spring work. The curriculum will be varied from year to year so that any student wishing to pursue it several consecutive years may acquire a valuable fund of information helpful in his chosen calling.

**OUTLINE OF SPECIAL WINTER CURRICULUM**

**FIRST YEAR**
- Animal Husbandry I.
- English Composition
- Agriculture I.
- Physics I.

**SECOND YEAR**
- Biology II. or physiology
- Animal Husbandry II.
- Agronomy II.
- Chemistry I.

**THIRD YEAR**
- Animal Husbandry III.
- Animal Husbandry V.
- Soil Fertility
- Bookkeeping or Commercial Law

**Animal Husbandry IV.**

**NOTE:** Those interested in this course should write for special winter term circular.

Facilities for Instruction in Animal Husbandry

The University offers excellent advantages to students in animal husbandry. On the university farm there is kept a number of superior animals for class room purposes. The farmers of Ohio are manifesting great interest in the work of the agricultural department by donations of stock as well as money. The stock donations consist of Percheron horses, Holstein Friesian, Guernsey, Jersey and Red Polled cattle, Merino, and Ramboulette sheep, Duroc Jersey, Poland China, Chester White and English Berkshire hogs. Within convenient reach of the University, are breeding stables of imported Percheron, Belgian and German Coach horses. Studs of Morgan and Standardbred blood are also maintained in Ada.
braces a detailed study of the various types of horses, special reference to the history of breeds and a brief consideration of market classes. Judging by score card and comparison. 4 hours.

II. Cattle—Types, Breeds and Market Classes. Textbook discussion of types of cattle, history of breeds and market classes. 4 hours.

III. Sheep and Hogs—Types, Breeds and Market Classes. The work is much the same as in courses I. and II. Text-book and discussion of types, history of breeds and market classes with consideration of score card. 4 hours.

IV. Breeding of Farm Animals. A comprehensive course in both theoretical and practical methods of breeding; embracing a study of the science of genetics, the value of pedigrees and the common practices of the most successful farmers.

V. Feeds and Feeding of Animals. This includes a study of the supply, composition and value of feeding stuffs; the principles underlying nutrition; the care of handling of animals, with special reference to the economy of feeds.

Facilities for Instruction in Agronomy

Plans are now being formed to fit the new buildings with all the modern agronomy equipment. The soil laboratory will contain new appliances for studying soil phenomena.

The University farm affords excellent opportunity for the study of farm crops. Samples of corn, wheat, oats and other seeds for grain judging and grading, dried specimens of forage crops, grasses, and green plants, typical ears of the most important varieties of corn growth in the state, samples of the many varieties of barley, soy beans, cow peas, and other seeds are to be had in abundance.

Every year the University receives donations of farm machinery for farm use. This may be used as object lessons in the study of farm engineering. In addition several local hardware stores offer excellent advantages for the study of farm equipment; gas engines, motors, et cetera, may be examined in the mechanical laboratory of the Engineering College.

Courses in Agronomy

I. Soil Technology. This course is designed to give the stu-
dent in agriculture an understanding of the fundamental principles of the management of soil; for maximum crop production. It includes a study of the process of soil formation and classification, the physical properties of soil and modification of soil structure by cultural operations. 4 hours.

II. Cereal Crops. Cultural methods, including planting, cultivation, harvesting and marketing, with special reference to seed selections. 4 hours.

III. Forage Crops. A continuation of course II., with a study of the geographical distribution of all the important forage crops of the United States. 3 hours.

IV. Farm Equipment. Lectures and recitations on the laying out and equipment of the farm, the planning of farm buildings, a study of farm power, water supply, and farm machinery. Practicum in the laying out of farms, planning of farm buildings, and comparison and testing of farm machines. 5 hours.

Other Courses

General Botany. A course designed primarily to meet the needs of agricultural students.

Horticulture. A study of pomology including the principles involved in growing, harvesting and marketing fruits with special reference to the control of insects and fungus diseases. The compounding of sprays and a brief consideration of spraying outfits.

I. Vegetable Gardening. A study of locations, soils, manures, and fertilizers, marketing, et cetera, as related to the home and market garden. Also a study of garden vegetables. 2 hours. Two year course agriculture.

II. Vegetable Gardening. A continuation of course I. 2 hours. Second quarter. Two year course in agriculture.

Soil Fertility. A study of the principles underlying plant growth; soils and soil types, tillage, drainage, soil bacteria, green manuring, rotation of crops, barnyard manure, its composition, preservation, methods of application, commercial fertilizers, composition, kind and time to apply, et cetera. 5 hours.

Dairy Fundamentals. A general course covering the important points of farm dairying, the handling of milk and cheese, the principles of the Babcock tester, the important dairy organizations and latest dairy legislation.
Rural Economics. The most important of all courses, for
without management, specialized study is of little profit. This
course embraces a history of agriculture, the factors of agricul-
tural production and the guiding principles in the organiza-
tion of a farm, et cetera. 5 hours.

Rural Sociology. An elective course dealing with rural social
problems. All the constructive rural forces are studied in detail.
Report, investigation and research.

For further description of courses, see the respective depart-
ments in the preceding pages.

Expenses
See pages 28 and 29 of this catalogue.

SCHOOL OF FINE ARTS

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

General Remarks

The aim of the school is to give a thorough, systematic train-
ing in the fundamental principles of Art.

The Studio

The studio is well equipped with models in all its depart-
ments. Students have access to standard art magazines and lit-
iterature of the day.

Courses of Instruction

I. Preparatory Classes. Drawing from simple objects
where special attention is given to correct seeing of form and
proportion. 2 hours.

II. Modeling of simple objects to give a comprehensive
study of light and shade values. 2 hours.

III. Drawing of interiors to give a systematic training in
perspective drawing. 2 hours.

IV. Painting Classes. In either oil, water color or pastel,
from still life and nature. Out door sketching in season. 2 hours.

V. Decoration of China. In the realistic and conventional. 2
hours.

VI. Stenciling. 2 hours.

VII. Indian Basketry. 2 hours.
VIII. Normal Courses. For public school teachers. 2 hours.
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.

For further information regarding this department, ask for Fine Arts Bulletin.

SCHOOL OF EXPRESSION

FACULTY

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

MAJOR CLIFFE DEMING, A. M.,
Dean

MAE DEMING MCCOPPIN, O. M.,
Assistant

ALFA HOLMES,
Registrar.

Aim

The aim of this school is to prepare men and women for fuller service in public speaking, whether as teachers, readers, lecturers, preachers or lawyers, and also to meet the need of those who realize the general cultural value of the study of Expression. For this reason expression is taught, not by imitation, but by the mastery of definite laws in such a way as to bring out the individuality of the student.

Courses

The courses may be grouped under two general classes.


II. Professional Culture—for Teachers, Platform Readers,
Public Speakers, Clergymen, Lawyers, in fact all who aim to profit by any form of Speech Arts. This course includes all subjects under the first course and Theory and Preaching in Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

Foil and Saber Fencing—Major Deming has had special work with Mr. Trowbridge, Monsieur Fournon and Signior Placenti, American, French and Italian Masters of the Art.

Photoplayers Course. A special course is now being arranged for those desiring to enter this new field of endeavor. Motion pictures are still in their infancy, yet their popularity among the masses, their general acceptance in our institutions of learning, the mechanical inventions, research and large financial investments give promise of a lusty growth. There is a great future for those who enter the field early. To attain a reasonable degree of perfection in this profession, a rigorous course must be followed and those not suited for it will be so informed. For further information address the Dean.

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

Certificates and Diplomas

Those satisfactorily completing the One Year General Culture Course will be granted a certificate to that effect. Those satisfactorily completing the Two Year Professional Course will be granted a Diploma of Graduation by the University.

The Cost

TUITION

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

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

DEPARTMENT MILITARY INSTRUCTION

FACULTY

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

FIRST LIEUT. RAY CORSON HILL, U. S. A.,
Commandant.

Under act of Congress, approved April 21st, 1904, an officer of the regular army is detailed at this University.

The arms and equipments, and the artillery, with the necessary appendages, are issued by the Ordnance Department of the United States Army. Swords and belts are furnished to the cadet officers.

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 Lieutenant and Cadet Adjutant, one First Lieutenant and Cadet Quartermaster, one First Lieutenant and Cadet Band Leader, and one Cadet Sergeant Major. Each company consists of

1 Captain, 1 1st Lieutenant, 1 2nd Lieutenant, 1 1st Sergeant, 1 Quartermaster Sergeant, 4 Sergeants, 4 Corporals, 27 Privates.

The Band consists of 1 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 Com-
mandant 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 resignation.

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 commission, 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 curriculums, 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 military 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 attend-
ance, 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 school 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 quarter to the cadet presenting the best appearance, and showing the greatest proficiency in drill and discipline.
DEGREES CONFERRED IN 1914
(Names not published in last year's catalog)

IN COURSE

Bachelor of Philosophy and Bachelor of Pedagogy
Brown, Burl Simpson..............................................Napoleon, Ohio

Bachelor of Science
Kuslan, Gilbert L.....................................................Defiance, Ohio

Graduate Commercial Science
Kissel Adella F......................................................Everett, Pa.

Civil Engineering
O'Reilly, Thos. William...............................................Cochecton, N. Y.

Electrical Engineering
O'Reilly, Frank Pethick...............................................Cochecton, N. Y.

DEGREES CONFERRED IN 1915

HONORARY

Anderson, William Franklin........................................Cincinnati, O.
Curl, Otto Leroy.....................................................Middletown, O.
Dumont, Charles Walter.............................................New York, N. Y.
Darling, James Denver.............................................Columbus, O.
Hoover, William Edie................................................Fargo, N. Dak.
Julliard, Augustus D...............................................New York, N. Y.
Johnston, George Franklin.........................................New York, N. Y.
McCannon, Elmer Ellsworth........................................Toledo, O.
Mathews, Robert Orville...........................................Toledo, O.
Peale, Charles Clifford............................................Bellefontaine, O.
Putt, William Edward...............................................Pleasant Ridge, O.
Straub, Henry Arthur...............................................Renova, Pa.
Yeager, James Craig................................................New York, N. Y.

IN COURSE

COLLEGE OF LIBERAL ARTS
Bachelor of Arts

Gleim, Sophia Christena.................................Wheelerburg, O.
Luft, Cora Belle.................................................Ada, O.
Rothrock, Ella...................................................Ada, O.

Shively, Alpha.................................Grover Hill, O.
Wisely, Carrie M..............................................Ada, O.
Weish, Margaret...............................................Ada, O.
Wilson, Jessie................................................Ada, O.

Bachelor of Philosophy

Bowersmith, Mabel...............................................Ada, O.
Carruthers, Wm. J. G.................................Arlington, N. J.

Davis, Bernard F...............................................Ada, O.
Shirk, Paul........................................Louisville, O.
Weaver, Ralph K........................................Fostoria, O.
Bachelor of Science

Graham, Verne O. .... Marysville, O. 
Gelineau, Emerice .... Lowell, Mass. 
Guthrie, Emmett .... Nelly, O. 
Houser, Cloyce Avery .... Spencerville, O. 
Johnson, Catha .... McConnelsville, O. 
Johnson, Carlie B. .... McConnelsville, O. 
Mollenkopf, Milton .... Galion, O.

Matson, Amadee, Lloyd........ Hopwood, Pa. 
Miller, Harriet .......... Ada, O. 
Rice, Rondale R. .... Ada, O. 
Rogers, Hugh Wallace .... Pataskala, O. 
Stauffer, Andrew S. .... Bluffton, O. 
Thomas, Geo. M. .... Johnstown, Pa.

Graduate in English

Beard, Stephen S. .... Grover Hill, O.

SCHOOL OF EDUCATION

Bachelor of Science in Education

Deemer, Guy H. .... Antwerp, O. 
Gray, Walter .... Glenmont, O. 
Graham, Eltha .... Marysville, O. 
Imhoff, Grover C. .... Shelby, O. 
Karns, Augustus .... Rockford, O. 
Kusian, Gilbert .... Defiance, O. 
Swartz, Hazel C. .... Shreve, O.

Bachelor of Pedagogy

Beatty, Florence May .... Greer, O. 
Bedrosian, Kobarig .... Asia

Fender, Bess Haney .... Ada, O.

Graduate in Pedagogy

Evans, Josephine .... Gomer, O. 
Gleim, Minnie Mac .... Weathersburg, O.

Moore, Sylvia .... Ada, O. 
Weaver, Helen ..... Middletown, O.

COLLEGE OF ENGINEERING

Civil

Allcroft, A. N. .... Newark, N. J. 
Auerbach, Geo. .... Cleveland, O. 
Brown, C. A. .... Hartford, Conn. 
Cobbe, Richard C. .... Jamestown, N. Y. 
Castro-Gamboa, Frank .... Costa Rica 
Dobbins, H. C. .... Ada, O. 
Durst, Ross C. .... New Germany, Ind. 
Fleming, J. F. .... Grove City, Pa. 
Graves, Geo. L. .... Carthage, N. Y. 
Gresham, H. L. .... Cleveland, O. 
Krebs, Herbert R. .... Gowardia, N. Y. 
Kneisley, Hugh A. .... Quincy, O. 
Kuz, Harry E. .... Youngstown, O. 
Leighninger, Chas. A. .... West Lafayette, O. 
Lewis, L. Glenn .... Copenhagen, N. Y. 
Liddle, C. R. .... Johnstown, N. Y. 
Lunn, Harry H. .... Beacon, N. Y. 
McCandless, Jno. .... Hawaii 
Malaret, Alberto V. .... Porto Rico 
Montgomery, W. A. .... Huntsville, O. 
Polanski, Morris .... Mt. Vernon, N. Y. 
Reilly, Thos. W. .... Cohocton, N. Y. 
Richardson, G. O. .... Indianapolis, Ind. 
Riggenbach, Carl G. .... New Martinsville, W. Va. 
Ryan, Dwight N. .... Cambridge, O. 
Schultz, Guy R. .... Antwerp, O. 
Swingley, H. L. .... Mount Vernon, O. 
Tuchings, Thos. H. .... Johnstown, N. Y. 
Urlich, M. B. .... Ephrata, Pa. 
Williams, R. J. .... Youngstown, O. 
White, Manly .... Ellington, N. Y.

Electrical

Alden, C. R. .... Marietta, O. 
Bargar, A. H. .... Bucyrus, O. 
Brehman, L. W. .... Bucyrus, O. 

Jennings, Walter R. .... West Lafayette, O. 
Lowe, R. E. .... Pittsfield, Mass.
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neves, J. G.</td>
<td>Brazil</td>
</tr>
<tr>
<td>Parsons, Wirt</td>
<td>Parsons, W. Va.</td>
</tr>
<tr>
<td>Portz, E. E.</td>
<td>Newcomerstown, O.</td>
</tr>
<tr>
<td>Ries, Caspar</td>
<td>Kenton, O.</td>
</tr>
<tr>
<td>Schott, W. F.</td>
<td>Elmore, O.</td>
</tr>
<tr>
<td>Smith, Harry R.</td>
<td>New Carlisle, O.</td>
</tr>
<tr>
<td>Stephenson, H. N.</td>
<td>Celina, O.</td>
</tr>
<tr>
<td>Teany, A. C.</td>
<td>East Orange, N. J.</td>
</tr>
<tr>
<td>Vroman, Erwin C.</td>
<td>Adams, N. Y.</td>
</tr>
<tr>
<td>Walter, C. F.</td>
<td>Buckeye Lake, O.</td>
</tr>
</tbody>
</table>

Bachelor of Science in Electrical Engineering

Bridge, E. H. Elyria, O.

Bachelor of Science in Mechanical Engineering

Alipaz, Felix A. Bolivia, S. A.
Collazo, F. A. Porto Rto
Frapwell, Herbert L. Arlington, N. J.
Fyke, J. Clifford West Unity, O.
Herzog, C. W. Toledo, O.

Architectural

Mellinger, Arthur E. Versailles, O.

COLLEGE OF LAW

Antin, Esther Toledo, O.
Bilderback, Wayne P. Hixville, O.
Fisher, Walter A. Versailles, O.

Ferrell, C. W. Stone Creek, O.
Mills, Chas. E. Gnadenhutten, O.
Skelton, Byron M. Canfield, O.

COLLEGE OF PHARMACY

Allman, Raymond J. Scranton, Pa.
Brast, Lewis Bellaire, O.
Bothwell, Chester W. Darlington, Wis.
Chrispin, Jno W. Cincinnati, O.
Canales, Lopez J. Cuba
Carbo, Pedro Cuba
Evans, Otho R. Rushmore, O.
Fox, Frona O. Detroit, Mich.
Gibson, Thos. E. Glouster, O.
Gegenheimer, Karl J. Vermillion, O.

Klinger, Warren E. Grover Hill, O.
Kinney, J. Park Belmont, O.
Leithauser, A. D. Ridgeville, O.
Miley, M. C. Senecaville, O.
Preston, Eugene E. Ada, O.
Powell, David G. Cleveland, O.
Shanfield, P. L. Elmore, O.
Simon, Herman H. Bloomdale, O.
Smith, Chester A. Sandusky, O.
Tum, Elmer H. Bucyrus, O.
Winkler, Vergil D. Apple Creek, O.
Whiteman, Chas. A. Wapakoneta, O.
Webster, Earl Sandusky, O.
Walsh, Jno. R. Piqua, O.
Yarnell, Edw. M. Freeport, O.

COLLEGE OF COMMERCE

Bachelor of Commercial Science

Bau, Ching Cha China
Engb, Carl A. Johnstown, Pa.
Moran, Agnes C. Lima, O.
Phillips, Wayne P. Conewango Valley, N. Y.

Ragan, Kathryn Napoleon, O.
Tomb, Robert C. Johnstown, Pa.
Woo, Chi Ting China
Graduate in Commercial Science
Bell, Nelson D. .......... Circleville, O. Smith, Harrington B. .......... Johnsonburg, N. Y.
Pettit, Cannes H. .......... Nevada, O. Welker, Goldie E. .......... Ada, O.

Stenography
Alvarez, Vincente .......... Porto Rico Elson, Harold J. .......... Dennison, O.

COLLEGE OF MUSIC
Voice
Bowers, Aleta R. .......... Ada, O.

Piano
Bowers, Aleta R. .......... Ada, O.

Teachers' Course in Piano
O'Dell, Emma Dell .......... Ada, O.

Graduate in Public School Music
King, Bertha Mac .......... Ada, O. Smith, Guy Lawton .......... Antwerp, O.

School of Fine Arts
Brown, Leah M. .......... Ada, O.

COLLEGE OF AGRICULTURE
Wilson, Harold F. .......... Newark, O.

REGISTER OF UNDER GRADUATES 1915

COLLEGE OF LIBERAL ARTS

Classical
Agin, Walter .......... Hardin, O. Markley, F. G. .......... Hardin, O.
Broede, Ralph .......... Seneca, O. Morrison, Helene .......... Allen, O.
Bartlette, Thos .......... Davidson, Tenn. Palmer, Chas. E. .......... Hardin, O.
Bruce, P. A. .......... Porto Rico Phillips, Mary .......... Hardin, O.
Booth, F. M. .......... Columbiana, O. Rowand, Ralph E. .......... Clinton, O.
Beck, Abbie .......... Columbiana, O. Ridenour, Florence .......... Allen, O.
Barker, Rachel .......... Union, O. Smith, Beatrice .......... Hardin, O.
Cromer, L. B. .......... Clarke, O. Shank, Mark .......... Seneca, O.
Cramer, Chas. E. .......... Hamilton, O. Tabor, Mason .......... Hardin, O.
Collier, Jas. .......... Lawrence, O. Varhol, Jno. G. .......... Bergen, N. J.
Crowe, Thos. H. .......... Lawrence, O. Vesper, Carl .......... Mercer, O.
Freeman, Marion .......... Hardin, O. Weaver, L. L. .......... Allen, O.
Forney, Almirah .......... Hardin, O. Wright, Roht. D. .......... Hardin, O.
Gekeler, Eleanor .......... Hardin, O. Wintringham, C. E. .......... Shelby, O.
Kline, Joyce .......... Allen, O. Warren, Dorothy .......... Hardin, O.
Loy, Frank .......... Hardin, O. Science
McAdams, Lenore .......... Marion, O. Ailes, Sidney .......... Shelby, O. Betkins, Geo .......... Hardin, O.
Anselment, Mayetta .......... Marion, O. Black, Ray .......... Clinton, O.
<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>City</th>
<th>State</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balmer, J. Edwin</td>
<td>Allegheny, Pa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bardelmier, Julius</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Buchele, Irving</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Clifford, Elmer E.</td>
<td>Lorain</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Cussans, Frank</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Corbet, Jeddi</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Driscoll, W. A.</td>
<td>Clinton</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Dobbins, Harry</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Dailey, Geo. B.</td>
<td>Mahoning</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Dobbins, Raymond</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Davis, Lehr</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Elsaas, Fred</td>
<td>Shelby</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Fidler, Truman B.</td>
<td>Columbiaia</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Fidler, W. Royal</td>
<td>Columbiaia</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Fishbaugh, Paul</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Florida, Hesse</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Goodman, Ben</td>
<td>Delaware</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Garside, Chas. C.</td>
<td>New Haven, Conn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hurless, Laurell</td>
<td>Van Wert, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Huston, H. R.</td>
<td>Somerset, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harshman, Tallmadge</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Inslay, J. W.</td>
<td>Hancock</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Judson, R. S.</td>
<td>Richland</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Johnson, C.</td>
<td>Stark</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Johnson, H. W.</td>
<td>Morgan</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Kennell, Otto C.</td>
<td>Butler</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Kirkland, Frances</td>
<td>Delaware</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Livingston, Ralph</td>
<td>Wyandot, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limbert, Lewis C.</td>
<td>Crawford, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lorenz, Theo. Jr.</td>
<td>Richfield, Conn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miller, D. McKinnon</td>
<td>Logan, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moore, Benj. A.</td>
<td>Williams, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Martin, O. R.</td>
<td>Darke, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercer, Frank E.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mertz, Gertrude</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McCreevy, Helen</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nelson, F. R.</td>
<td>Monroe, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pond, J. W.</td>
<td>Paulding, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigossi, Dante</td>
<td>Allegheny, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Porritt, Don C.</td>
<td>Oakland, Mich.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parson, Elmer S.</td>
<td>Beaver, Pa.</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Perry, Clarence</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parnias, Morales</td>
<td>Porto Rico</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prescott, F. A.</td>
<td>Allegheny, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rabus, Jno.</td>
<td>Allen, Ind.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rowe, Fred I.</td>
<td>Seneca, O.</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Stine, J. Ray</td>
<td>Wayne, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaulls, C. F.</td>
<td>Somerset, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smith, Everett H.</td>
<td>Morrow, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stires, Fred</td>
<td>Cuyahoga, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snyder, Barton F.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shanklin, A. E.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheridan, T. C.</td>
<td>Lorain, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sinkey, Dorothy</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turner, R. W.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taggart, L. Clare</td>
<td>Lawrence, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tavares, Octavio</td>
<td>Brazil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warner, C. A.</td>
<td>Pickaway, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Williams, T. W.</td>
<td>Darke, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walley, Ersel</td>
<td>Paulding, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young, B. S. Jr.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yeasting, G. A.</td>
<td>Sandusky, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Philosophy**

<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>City</th>
<th>State</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvey, H. D.</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Hankins, O. W.</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Hyde, Edw.</td>
<td>Trumbull, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dibble, Ray M.</td>
<td>Putnam, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ewing, Helen</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turner, R. W.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McDowell, Margaret</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ragner, Bernhard</td>
<td>Allegheny, Pa.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**English**

<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>City</th>
<th>State</th>
<th>Occupation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrews, Chas. W.</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Andrews, Ralph</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Andrews, Orval</td>
<td>Putnam, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agler, Wm. O.</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Armentrout, Edna</td>
<td>Hardin</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Adams, Letitia</td>
<td>Erie, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Andrews, Ethel</td>
<td>Allen, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arthur, Margaret</td>
<td>Allen, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anderson, Ruth</td>
<td>Logan, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antin, Ella R.</td>
<td>Lucas, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ault, Mary M.</td>
<td>Wyandot, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown, Harold H.</td>
<td>Paulding, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barnes, Helen</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basore, Mary</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Busick, Verna</td>
<td>Paulding, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bryan, Toy</td>
<td>Allen, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baker, Fairy</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brebem, Louis H.</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Banning, E. E.</td>
<td>Hardin, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentley, J. W.</td>
<td>Mercer</td>
<td></td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Bell, Clara</td>
<td>Licking, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beyer, Anna</td>
<td>Union, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bodey, Alta</td>
<td>Champaign, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bex, Hazel</td>
<td>Mercer, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baker, Emma</td>
<td>Anglais, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentley, Jessie</td>
<td>Paulding, O.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Bear, Temple..................Wyandot, O.
Barnes, Leo..................Paulding, O.
Brown, Mary..................Wyandot, O.
Bowen, Ferne................Richland, O.
Bailey, Margaret.............Hancock, O.
Brown, Bessie.................Sandusky, O.
Brown, Nelle..................Hancock, O.
Brose, Lavina C...............Crawford, O.
Bonnoront, Corten.............Shelby, O.
Brandeberry, Cora............Shelby, O.
Borden, Leila...............Van Wert, O.
Baker, Verda.................Hardin, O.
Bauer, Amelia.................Brown, O.
Crabb, Mrs. Ina T............Pickaway, O.
Carey, Paul..................Hardin, O.
Curry, Homer P..............Perry, O.
Champion, Coyne I...........Richland, O.
Carey, D. A..................Hardin, O.
Carter, Pearl.................Galla, O.
Chambers, Ruth..............Hancock, O.
Crafts, Helen................Hardin, O.
Cole, Roma...................Hardin, O.
Downing, H. L...............Allen, O.
Davis, Lawrence..............Mercer, O.
Drake, Earl..................Mercer, O.
Dome, Chas. S................Hardin, O.
Dobbins, J. E.................Bath, Va.
Diehl, Clarence..............Hocking, O.
Deardoff, Corwin.............Logan, O.
Davis, Dwight W..............Mercer, O.
Davis, Myrl..................Hardin, O.
Dearth, Ruby...............Van Wert, O.
Boroff, Mabel.................Mercer, O.
Barnes, Lucile..............Hardin, O.
Connoughton, Jno.............Darke, O.
Clarke, Chas................Van Wert, O.
Cotner, W. W................Allen, O.
Conn, Clyde..................Van Wert, O.
Cox, Herbert.................Auglaize, O.
Carr, Roy R..................Mercer, O.
Condit, Glenn.................Logan, O.
Close, L. C..................Wayne, O.
Cooke, Lucile.................Logan, O.
Cooke, Annabelle.............Logan, O.
Cummins, Sarah...............Hardin, O.
Cotterell, Ethel E...........Mercer, O.
Cotterman, Bertie E........Hancock, O.
Crates, Muriel..............Paulding, O.
Combs, Zola................Van Wert, O.
Clay, Ethel..................Campaign, O.
Cashell, Martha G...........Paulding, O.
Crawford, Jessie.............Auglaize, O.
Cosgrove, Frances...........Wyandot, O.
Casebolt, Mamie..............Logan, O.
Chandler, Anna..............Wyandot, O.
Clinger, Blanche E...........Hardin, O.
Campbell, Iris..............Auglaize, O.
Chambers, Edna..............Wyandot, O.
Crissey, Edith................Allen, Ind.
Crider, Florence.............Union, O.
Carpenter, Ida L.............Shelby, O.
Flint, I. E..................Paulding, O.
Fogle, C. T..................Auglaize, O.
Ford, B. R..................Allen, O.
Pawcett, J. A.................Wyandot, O.
Fisher, Paul................Logan, O.
Francis, Leo J.............Shelby, O.
Ford, Elda...................Allen, O.
Foreman, Lelah..............Hardin, O.
Fackler, Georgia...........Allen, O.
Fitz, Miriam.................Erie, O.
Forsythe, Josephine.........Logan, O.
Forsythe, Mary...............Logan, O.
Fisher, Edith.................Mercer, O.
Fisher, Doris.................Mercer, O.
Frye, Kathryn...............Richland, O.
Ferguson, Ruth..............Greene, O.
Fisher, Hazel.................Hardin, O.
Frazier, Mabel..............Auglaize, O.
Fix, Margaret...............Auglaize, O.
Fisher, Alma M..............Auglaize, O.
Fox, Lillian.................Montgomery, O.
Fisher, J. C................Mason, O.
Fulkas, Ruth...............Van Wert, O.
Ford, Luella G...............Huron, O.
Foster, Lorena..............Hancock, O.
Galaapo, Ralph..............Paulding, O.
Geer, Carl B................Shelby, O.
Gibson, R. R................Wyandot, O.
Gigandet, Robert.............Shelby, O.
Gigandet, Jos...............Shelby, O.
Gray, J. Wm................Tuscarawas, O.
Guthrie, W. H.................Wyandot, O.
Gardner, Maude..............Van Wert, O.
Graw, Dora..................Shelby, O.
Graw, Freda..................Paulding, O.
Grindell, Cobah..............Hardin, O.
Gray, Ruth W................Shelby, O.
Goetter, S. Elizabeth........Richland, O.
Glenn, Clare................Pike, O.
Gorsuch, Hettie..............Pike, O.
Gottschalk, Louise............Fulton, O.
Gottschalk, Hattie...........Fulton, O.
Gordon, Louva N..............Hardin, O.
Graghiel, Rebecca............Logan, O.
Gotschall, Eva...............Mercer, O.
Gilbere, Mina M..............Marion, O.
Gossard, Crestel.............Allen, O.
Gallman, Gladys.............Mercer, O.
Heitman, Harold.............Paulding, O.
Harmion, Wilbur V...........Paulding, O.
Hoover, A. D.................Paulding, O.
Hursch, W. R.................Richland, O.
Hitchcock, Chas. E..........Putnam, O.
Hardy, Chas. H..............Lawrence, O.
Hoppkins, Noble B...........Hardin, O.
Hattery, Harold..............Van Wert, O.
Harman, H...................Darke, O.
Haines, McKinley............Logan, O.
Havens, Russell.............Sandusky, O.
Howey, Herbert..............Union, O.
Hassan, Claude D...........Delaware, O.
Hatfield, W. R...............Harrison, O.
Hakes, Chas..................Seneca, O.
Hughes, C. F................Allen, O.
Horton, E. E.................Noble, O.
IN COURSE

Dunlap, Irlte. Putnam, O. Jeffries, Alma. Darke, O.
Dickson, Ethel. Hardin, O. Jones, Nina. Hancock, O.
Dunson, Zelma. Hardin, O. Jennings, Julia. Brown, O.
Dunson, Mildred. Hardin, O. Jones, Ruth. Van Wert, O.
Douglas, Consuelo. Tuscarawas, O. Jordan, Esther. Champaign, O.
De Witt, 'Gail. Hardin, O. Jamison, Laura. Hardin, O.
Diehl, Anna. Hocking, O. Jahr, Clara. Erie, O
Derdorff, Hazel. Logan, O. Jones, Merritt E. Hardin, O.
Davis, Beryl. Logan, O. John, Howard L. Allen, O.
Dorn, Ethel. Shelby, O. Jervis, Eunice. Allen, O.
Dirmeyer, Lydia. Hardin, O. Koehler, R. G. Wyandot, O.
Daviss, Alma. Scioto, O. Kimble, Avery. Hardin, O.
Dickerson, Wilfred. Crawford, O. Kruse, Elmer F. Auglaize, O.
Dobbins, Beth. Hardin, O. Kelley, Ernest W. Mercer, O.
Dally, Opal. Hardin, O. Kraeger, E. A. Marion, O.
Davis, Mildred. Shelby, O. Kimmell, Carl. Wyandot, O.
Dome, Ima. Hardin, O. Klingler, Ralph. Hardin, O.
Edgington, B. H. Hardin, O. Katterheinrich, Clarence, O.
Evans, Clayton. Logan, O. Kent, Earl. Auglaize, O.
Ely, Jno. Shelby, O. King, Herbert W. Clarke, O.
Elliot, Floyd M. Hardin, O. Kimball, Milo J. Union, O.
Echeman, Chas. Shelby, O. Klingler, Minnie. Hardin, O.
Evans, Mary. Allen, O. Killough, Eva. Logan, O.
Evans, Nelle. Allen, O. Kinney, Imogene. Hardin, O.
England, Bernice. Wyandot, O. Kile, Emma. Union, O.
Ehrman, Aldine. Allen, O. Kumly, Edna. Hardin, O.
Emmons, Elsie. Hardin, O. Kelly, Grace. Mercer, O.
Fisher, F. G. Mercer. O. King, Ruth. Hardin, O.
Harvey, Zella. Logan, O. Kauble, Esther. Hardin, O.
Hess, Minnie. Hardin, O. Kear, Lottie. Hardin, O.
Hill, Mary Belle. Logan, O. Kile, Florence. Mercer, O.
Hughes, Mary. Champaign, O. Kemmerley, Dorothy. Wyandot, O.

Hamilton, Gertrude. Allen, O. Kerr, Goldie. Richland, O.
Hempy, Faye. Hardin, O. Kizer, Alta. Champaign, O.
Hickle, Anna Belle. Hardin, O. Kirklin, Cora. Clermont, O.
Haas, Clara. Crawford, O. Katteeman, Pearl. Hardin, O.
Heaming, Callie. Shelby, O. Kuerin, Lydia. Montgomery, O.
Harrod, Jennie. Allen, O. Kronsop, Marie. Logan, O.
Haudenschild, Grace. Hardin, O. Kahler, Corrine. Hardin, O.
Hutchinson, Leno. Paulding, O. Kollerfrah, Alice. Union, O.
Hittepole, Leona. Shelby, O. Leightle, J. R. Pike, O.
Hobensock, Clarice. Hardin, O. Lacy, Roy. Mercer, O.
Huffman, Francis H. Jefferson, O. Longmecker, Harvey. Darke, O.
Harshman, Ralph G. Hardin, O. Landfair, Robert. Hardin, O.
Huber, Clair M. Allen, O. Long, Ernest L. Marion, O.
Hanway, Melba. Auglaize, O. Leedon, G. Lloyd. Pike, O.
Henderson, Jessie L. Morrow, O. Leedon, Albert. Pike, O.
Holl, Dorothy. Stark, O. Leedon, N. G. Pike, O.
Harkness, Cora. Polk, Wis. Lawrence, S. R. Wyandot, O.
Irwin, H. T. Allen, O. Long, Ernest. Hardin, O.
Inskipp, A. E. Logan, O. Landgrave, L. A. Marion, O.
Inskipp, Ruth. Logan, O. Lowe, Nellie M. Hardin, O.
Inskipp, Gladys. Logan, O. Loop, Zada. Paulding, O.
Imbody, W. H. Marion, O. Leazendee, Ethel M. Madison, O.
Imler, Ixetta. Wyandot, O. Long, Virginia. Champaign, O.
Johnson, C. Stark, O. Lutz, Mildred. Allen, O.
Jennings, E. F. Allen, O. Lowery, Marguerite. Wyandot, O.
Jaskinsky, Guy. Logan, O. Ludwig, Margie. Shelby, O.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roberts, Mabel</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Roc, Emily</td>
<td>Wood, O</td>
</tr>
<tr>
<td>Ritchie, Doris</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Runser, Imogene</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Rowand, E M</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Rothrock, Ella</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Ries, Lucille</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Richardson, Florence</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Rowe, Golda</td>
<td>Seneca, O</td>
</tr>
<tr>
<td>Swallow, Homer I</td>
<td>Crawford, O</td>
</tr>
<tr>
<td>Sloan, Elmer</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Sullivan, Dallas</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Sill, J. B.</td>
<td>Seneca, O</td>
</tr>
<tr>
<td>Souders, Warren</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Smith, Homer A</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Smith, Carl C</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Seaton, A. R.</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Stockstill, L B</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Snyder, Don C</td>
<td>Mercer, O</td>
</tr>
<tr>
<td>Seeds, L R</td>
<td>Marion, O</td>
</tr>
<tr>
<td>Seward, Annie P</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Spicer, Fred</td>
<td>Mercer, O</td>
</tr>
<tr>
<td>Skidmore, Thurman</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Spring, Paul E</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Sullivan, Wesley</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Schertzer, B. L</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Seebach, Clyde A</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Simons, R. B.</td>
<td>Putnam, O</td>
</tr>
<tr>
<td>Selby, Paul L</td>
<td>Scioto, O</td>
</tr>
<tr>
<td>Stone, Hazel B</td>
<td>Crawford, O</td>
</tr>
<tr>
<td>Shadley, Marie</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Sipes, Bernice</td>
<td>Crawford, O</td>
</tr>
<tr>
<td>Silvas, Mabel</td>
<td>W. Moreland, Pa</td>
</tr>
<tr>
<td>Souder, Ruth</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Straley, Hala</td>
<td>Mercer, O</td>
</tr>
<tr>
<td>Sink, Lois</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Sink, Ruth A</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Stephens, Minnie</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Stalder, Esther</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Schaefer, Glenny</td>
<td>Eric, O</td>
</tr>
<tr>
<td>Smith, Lulu M</td>
<td>Rock, Wis.</td>
</tr>
<tr>
<td>Scoller, Dot</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Sneeringer, Nettie</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Snider, Rae</td>
<td>Auglaize, O</td>
</tr>
<tr>
<td>Sharp, Camilla</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Swinehart, Emma</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Spencer, Mabel</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Snavely, Mrs. W. A</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Stover, Besse</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Stine, Augusta</td>
<td>Sandusky, O</td>
</tr>
<tr>
<td>Soong, Edna</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Saunders, Jennie</td>
<td>Ashland, O</td>
</tr>
<tr>
<td>Seray, Goldie</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Smith, Mrs. W. A</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Shaw, Clara</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Shaw, Ruth</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Sautwine, Iva</td>
<td>Erie, O</td>
</tr>
<tr>
<td>Shideler, Hazel</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Snavely, Annie</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Shaw, Margaret</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Sauts, Mary F</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Switzer, Leetha</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Stine, Oliva</td>
<td>Richland, O</td>
</tr>
<tr>
<td>Stickard, Marie L</td>
<td>Logan, O</td>
</tr>
<tr>
<td>South, Ruby</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Smith, Gwendale</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Shank, Lillian</td>
<td>Seneca, O</td>
</tr>
<tr>
<td>Stewick, Flossie E</td>
<td>Putnam, O</td>
</tr>
<tr>
<td>Shinaberry, Lea</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Sproul, Vera</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Shephard, A. C.</td>
<td>Belmont, O</td>
</tr>
<tr>
<td>Stobart, Nate J</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Snyder, Clara</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Strohecker, Mary</td>
<td>Lawrence, Pa</td>
</tr>
<tr>
<td>Schrock, Carrie</td>
<td>Fayette, O</td>
</tr>
<tr>
<td>Stopher, Thelma</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Smith, Agnes</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Stout, Alice</td>
<td>Harri, O</td>
</tr>
<tr>
<td>Snow, Angies</td>
<td>Clarke, O</td>
</tr>
<tr>
<td>Snyder, Irene</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Thomas, Lemoynes</td>
<td>Union, O</td>
</tr>
<tr>
<td>Tracey, D. V.</td>
<td>Knox, O</td>
</tr>
<tr>
<td>Tallman, P. A.</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Temple, J. H.</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Taubken, Harry</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Thomas, Neva</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Terry, Vivian</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Thatcher, Russie</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Tuohy, Nellie</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Tuohy, Emma</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Towe, Florice</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Termann, Gladys</td>
<td>Richland, O</td>
</tr>
<tr>
<td>Tucker, Mary</td>
<td>Ashland, O</td>
</tr>
<tr>
<td>Thomas, Vada</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Thrasher, Mabel</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Thrasher, Florence</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Tremain, Ruth</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Thomson, Charlotte</td>
<td>Campaign, O</td>
</tr>
<tr>
<td>Tuttle, S. M.</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Turner, Lela</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Thomas, Claudia</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Thomas, Bertha A</td>
<td>Wyandot, O</td>
</tr>
<tr>
<td>Terry, Myrtle</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Vanorsdall, Harry</td>
<td>Jefferson, O</td>
</tr>
<tr>
<td>Volz, E. H.</td>
<td>Coshocton, O</td>
</tr>
<tr>
<td>Volk, Res G.</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Voke, Ruby</td>
<td>Paulding, O</td>
</tr>
<tr>
<td>Vermillion, Moltie</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Vaughn, Anna M.</td>
<td>Cuyahoga, O</td>
</tr>
<tr>
<td>Wilson, Lee A</td>
<td>Mercer, O</td>
</tr>
<tr>
<td>Waterhouse, Arthur</td>
<td>Crawford, O</td>
</tr>
<tr>
<td>Winegardner, Arthur</td>
<td>Allen, O</td>
</tr>
<tr>
<td>Warren, Hayes H</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Winget, Leo M</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Woodard, Ray</td>
<td>Van Wert, O</td>
</tr>
<tr>
<td>Weidemain, Ivan</td>
<td>Union, O</td>
</tr>
<tr>
<td>Waugh, Norval D</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>White, Gladys</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Wells, Mary</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Wentz, Lois</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Winkler, Levan</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Wight, Josephine</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Wright, Lucia</td>
<td>Logan, O</td>
</tr>
<tr>
<td>Warren, Hayes H</td>
<td>Hardin, O</td>
</tr>
<tr>
<td>Whan, Ruth E</td>
<td>Lawrence, Pa</td>
</tr>
<tr>
<td>Winger, Luella</td>
<td>Shelby, O</td>
</tr>
<tr>
<td>Name</td>
<td>Address</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Weidinger, Kitturiah</td>
<td>Champaign, O.</td>
</tr>
<tr>
<td>Wolford, Fannie</td>
<td>Franklin, O.</td>
</tr>
<tr>
<td>Wilson, Ermal</td>
<td>Mercer, O.</td>
</tr>
<tr>
<td>Watts, Lena</td>
<td>Pike, O.</td>
</tr>
<tr>
<td>Watts, Joy</td>
<td>Pike, O.</td>
</tr>
<tr>
<td>Wren, Clara B.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Wooley, Matilda</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Williams, Esther</td>
<td>Licking, O.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparatory</td>
<td></td>
</tr>
<tr>
<td>Armstrong, Jack</td>
<td>Wood, O.</td>
</tr>
<tr>
<td>Allbeitz, Ella</td>
<td>Cuyahoga, O.</td>
</tr>
<tr>
<td>Buchter, Norris New</td>
<td>Haven, Conn.</td>
</tr>
<tr>
<td>Batt, Amos J.</td>
<td>Oneida, N. Y.</td>
</tr>
<tr>
<td>Bailey, Howard B.</td>
<td>Summit, O.</td>
</tr>
<tr>
<td>Bailey, E. V.</td>
<td>Auglaize, O.</td>
</tr>
<tr>
<td>Bowerie, J. N.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Beavers, Wm.</td>
<td>Adams, Ind.</td>
</tr>
<tr>
<td>Bowman, E. F.</td>
<td>Richland, O.</td>
</tr>
<tr>
<td>Bucy, Cliff</td>
<td>Holmes, O.</td>
</tr>
<tr>
<td>Burghardt, Geo. F.</td>
<td>Milwaukee, Wis.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
IN COURSE


SPECIAL


COLLEGE OF ENGINEERING

Civil

Thevenet, E. H. Essex, N. J.  
Tavares, Jayne Brazil.  
Williams, John A. Licking, O.  
Wright, Foster J. Licking, O.  
Ward, Frank Monroe, O.  
Waterloo, Victor Allegheny, Pa.  
Wilson, Earl Mahoning, O.  
Yim, D. J. San Francisco, Cal.  

Electrical  

Anspach, laurel hardin, O.  
Andrade, R. Brazil.  
Armstrong, Jack Wood, O.  
Alholm, August Marquette, Mich.  
Amarel, J. P. Brazil.  
Azevedo, F. J. Brazil.  
Anspach, Kent P. Hardin, O.  
Brockman, Carl Sandusky, O.  
Brewer, H. G. Ashland, N. Y.  
Berlew, Russell Duquesne, Pa.  
Bidwill, Wayne M. Trumbull, O.  
Burghardt, Geo. F. Milwaukee, Wis.  
Boyle, Russell M. Beaver, Pa.  
Bedell, W. B. Rockland, Me.  
Bayne, Geo. D. Orleans, N. Y.  
Barnette, F. G. Lucas, O.  
Blackford, Chas. Hardin, O.  
Bennett, R. H. Warren, O.  
Brockman, Carl Sandusky, O.  
Brennan, Jos. San Francisco, Cal.  
Coates, Albert Butler, Pa.  
Cordova, Justo R. Brazil.  
Cordray, Geo. Wyandot, O.  
Castro, N. Brazil.  
Chamberlain, Leslie L. Lycoming, Pa.  
Downing, H. M. Van Wert, O.  
Davidson, G. W. Lake, O.  
De Barros, L. P. Brazil.  
de Barros, Eduardo Brazil.  
Decker, Guy P. Columbiana, O.  
Deibel, M. J. Wayne, O.  
Dawson, J. W. Steuben, N. Y.  
Evans, F. W. Hardin, O.  
Evans, Arthur Somerset, Pa.  
Evans, Wm. T. Lewis, N. Y.  
Ferreida, Paulo D. Brazil.  
Ferliss, Andrew J. Allegheny, Pa.  
Folts, A. V. Hardin, O.  
Evans, Arthur Somerset, Pa.  
Fitzgerald, Geo. A. Cattaraugus, N. Y.  
Goldberg, D. J. Hartford, Conn.  
Gilbert, H. R. Darke, O.  
Gruber, Lorenz Marion, O.  
Hurst, H. A. Ashtabula, O.  
Hartman, Paul H. Fulton, N. Y.  
Hipsher, Miles F. Marion, O.  
Heinbach, Harold Stark, O.  
Hall, Elmer J. Delaware, O.  
Ioden, R. D. Wyandot, O.  
Jacksen, Wm. L. St. Louis, Mo.  
Jenson, Mark Cattaraugus, N. Y.  
Johnson, John W. St. Lawrence, N. Y.  
Jackson, D. C. Sandusky, O.  
Kelby, E. G. Wayne, O.  
Kadel, Lewis C. Orange, N. Y.  
Kennedy, Urban Shelby, O.  
Laird, Wray Washington, O.  
Liddle, W. E. Mercer, Pa.  
Mertz, Ralph Adrian, O.  
McKinley, H. T. Champaign, Ill.  
Maynard, Reginald A. Lackawanna, Pa.  
Miller, Wm. Donald Allen, O.  
Molitor, Fred W. Herkimer, N. Y.  
McKee, R. C. Henry, O.  
Miller, W. G. Wayne, O.  
Mose, Geo. Tuscarawas, O.  
Miller, Geo. H. Lucas, O.  
Murphy, Edw. F. Franklin, O.  
Nordstrom, Frithiof Stark, O.  
Nobrego, Clovisgda Brazil.  
Newton, F. P. Lake, O.  
Payne, Oliver C. Suffolk, N. Y.  
Peterman, Henry A. Crawford, Pa.  
Parker, John Erie, N. Y.  
Pratt, S. O. Cattaraugus, N. Y.  
Pelasz, Ernest Columbus.  
Parsons, F. W. Huron, O.  
Rowe, Raymond L. West Chester, N. Y.  
Rowan, Alfred Clark, O.  
Rudolph, H. L. Washington, O.  
Rothberger, Geo. A. Bureau, Ill.  
Robinson, Clarence Hancock, O.  
Robinson, H. H. Hancock, O.  
Riggan, Walter L. Cumberland, N. Y.  
Stiemke, Herbert W. Milwaukee, Ill.  
Shafer, Andrew L. Paulding, O.  
Smyth, Rodrigo M. Costa Rica  
Sterling, Chester Jefferson, O.  
Shaver, John D. Madison, N. Y.  
Sorg, Walter A. Livingston, N. Y.  
Slusser, J. C. Hardin, O.  
Slater, C. G. Fayette, Pa.  
Speece, Rex Logan, O.  
Scheffer, Dallas Paulding, O.  
Schoonover, Merritt Hardin, O.  
Sands, C. Wayne Berks, Pa.  
Shoup, Ernest H. Greene, O.  
Timbers, Pryse Van Wert, O.  
Walker, Clarence E. Greene, O.  
Ward, Wm. E. Cattaraugus, N. Y.  
Wickerham, W. W. Hancock, O.  
Watts, Spencer R. Lorain, O.
Mechanical
Anderson, Clifford........Kings, N. Y.
Aimond, L. H............Hamilton, Ind.
Bedell, Harry............Allegany, Pa.
Beavers, Wm.............Adams, Ind.
Briggs, R. W.............Ross, O.
Brakes, James Jr........Hardin, O.
Brown, P. H..............Crawford, O.
Clelland, Ford...........Oneida, N. Y.
Dohmer, John............Brooke, W. Va.
Daggett, W. E...........Lucas, O.
Ely, S. Harold..........Otsego, N. Y.
Englehart, W. C........Knox, O.
Francis, Oscar..........Allen, O.
Fyke, F. C..............Williams, O.
Gilbreth, G. Earle......Marion, O.
Grove, G. N.............Branch, Mich.
Hicks, Paul..............Blair, Pa.
Hazen, Stuart D.........Lake, O.
Hurd, E. G..............Johnson, Kan.
Lovel, C. V.............Hardin, O.
Jennings, Doit C.........Allen, O.
Judson, H. R............Richland, O.
King, Joe H.............Adams, O.
Karlson, John T..........Franklin, Mass.
Long, Ralph E...........Summit, O.
Lyman, Chas. B...........Madison, N. Y.
McNally, W. A...........Lawrence, Pa.
Miller, D. F............LaPorte, Ind.
Miller, Raymond........St. Lawrence, N. Y.
Miller, Milo A...........Newaygo, Mich.
Norrick, H. E...........Knox, O.
Notman, G. W...........Stark, O.
Prouty, Royal...........Cuyahoga, O.
Porter, Paul G...........Trumbull, O.
Pleam, George A........Berks, Pa.
Ramsey, Harold D........Jefferson, N. Y.
Rostock, Paul...........Hardin, O.
Rew, C. J..............Chautauqua, N. Y.
Summers, J. Edgar.......Frederick, Md.
Smith, Clifford A........Warren, Ill.
Tiefel, Myron R..........Trumbull, O.
Tiefel, John C...........Trumbull, O.
Titus, Henry S...........Chautauqua, N. Y.
Walter, M. V...........Matagorda, Tex.
Walter, Charles........Chautauqua, N. Y.
Wright, Lauret R.........Erie, Pa.
Zimmerman, R. W........Madison, O.

Architecture
Epple, John A...........St. Louis, Mo.
Given, R. M..............Hardin, O.
Honsinger, F. T........Herkimer, N. Y.
Moore, J. H..............Marion, O.
Schutt, Raymon...........Defiance, O.

Mining
Buck, Dudley R............Orange, N. Y.
Epstein, David...........Russia
Palaz, Abel..............Columbia
Reed, J. Arthur..........Jefferson, O.

Municipal and Sanitary
Abbott, Harry C........Licking, O.
Hibbs, Albert S..........Summit, O.
Law, Chas. U..............Cattaraugus, N. Y.

COLLEGE OF LAW
Allen, F. LeRoy........Union, O.
Bair, Earl D..............Stark, O.
Bustard, Jack H........Cuyahoga, O.
Brown, John C...........Jefferson, O.
Baxter, Wilbert J........Columbiana, O.
Baley, H. D.............Van Wert, O.
Barefoot, Chas...........Cambria, Pa.
Bargard, S..............Gallia, O.
Boone, Carl..............Hardin, O.
Bevan, Roland...........Noble, O.
Christofy, Hugo..........Jefferson, O.
Crabbe, Earl E...........Madison, O.
Cornell, Ernest.........Licking, O.
Connauton, Frank........Auglaize, O.
Cowan, E. G..............Mahoning, O.
Crabbe, H. H...........Pickaway, O.
Day, Raymond P...........Allen, O.
Dormant, W. L...........Bureau, Ill.
Darby, A. F..............Hardin, O.
Edwards, J. Parker......
Elsass, Fred............Shelby, O.
Eisenberg, Walter E.....Huntington, Pa.
Edmonds, Geo. L.........Allegany, Pa.
Fackler, C. E...........Union, O.
Fackler, J. R...........Union, O.
Godwin, E. L...........Logan, O.
Henderson, D. K.........Allen, O.
Harraman, Ernest E......Marine, O.
IN COURSE 165

Harbour, H. R. .... Logan, O.
Hatchetl, E. G. .... Cuyahoga, O.
Hill, R. C. .... Lucas, O.
Hamrick, Blaine Harrison... W. Va.
Johnson, R. L. .... Hardin, O.
Jewell, Vanton .... Trumbull, O.
Kephart, John B. .... Allen, O.
Linkins, Arthur E. .... Allen, O.
Montis, H. H. .... Summit, O.
Mills, Leo .... Greene, O.
McElroy, Justin .... Hardin, O.
Malloy, H. L. .... Stark, O.
Moyer, Clarence .... Erie, O.
McFadden, Earl .... Mahoning, O.
Mills, C. E. .... Tuscarawas, O.
Moreland, A. W. .... Jefferson, O.
McMaster, E. B. .... Jefferson, O.
McFadden, Earl .... Mahoning, O.
Ormsby, Robert .... Mahoning, O.
Porritt, Donald C. .... Oakland, Mich.
Patton, P. J. .... Marion, O.
Payne, Frank C. .... Berrine, Mich.
Palomba, Chas. .... New Haven, Conn.
Parker, M. S. .... Hardin, O.
Porter, D. E. L. .... Warren, O.
Russell, P. G. .... Licking, O.
Ramey, Homer A. .... Ottawa, O.
Rodgers, A. M. .... Gallatin, Ill.
Ringer, S. A. .... Hardin, O.
Rubenson, Harry T. .... Mahoning, O.
Spika, Harvey .... Hardin, O.
Silvertone, Simon .... Stark, O.
Spielman, C. A. .... Cuyahoga, O.
Scheiber, Otto .... Hillsdale, Mich.
Seymour, Jos. A. .... Medina, O.
Sullivan, T. W. .... Hardin, O.
Schoonover, Harry .... Hardin, O.
Shank, Mark .... Seneca, O.
Singer, E. G. .... Van Wert, O.
Shaw, Marvin K. .... McKean, Pa.
Singer, Herman H. .... Passaic, N. J.
Smith, Lester S. .... Clearfield, Pa.
Wolf, Oren .... Stark, O.
Webster, E. L. .... Ottawa, O.

COLLEGE OF PHARMACY

Alonzon, Antonio .... Cuba
Anderson, W. S. .... Scioto, O.
Ayers, Rall .... Mercer, O.
Bednar, Andrew E. .... Cuyahoga, O.
Baker, Bryan .... Erie, O.
Beaumont, Claude R. .... Guernsey, O.
Buddenhagen, Wm., R. .... Erie, O.
Beeler, Elmer E. .... Wayne, O.
Brenneman, Glenn R. .... Wayne, O.
Bryan, Morris V. .... Darke, O.
Burtt, C. B. .... Cuyahoga, O.
Bloomberg, Oscar .... Douglas, Ore.
Carrera, Antonio .... Cuba
Couch, Fred R. .... Highland, O.
Carpenter, J. H. .... Greene, O.
Crep, Harold .... Allen, O.
Camm, Harry E. .... Marion, O.
Custer, Albert A. .... Licking, O.
Cain, Earl .... Harrison, W. Va.
Champion, Jesse .... Paulding, O.
Clark, Raymond .... Allen, Ind.
Droz, C. A. .... Beaver, Pa.
Duvall, R. W. .... Belmont, O.
Diehl, Ray E. .... Erie, O.
Dunn, Wm., S. .... Belmont, O.
Desdin, Jose Lassge .... Cuba
De Weese, Paul L. .... Allen, O.
Dunajatsik, John .... Richland, O.
Elrod, P. Elton .... Clermont, O.
Fowler, C. W. .... Belmont, O.
Fast, Norval B. .... Mercer, O.
Futre, Alexander .... Ohio
Fockler, Serre .... Allen, O.
Finnean, B. W. .... Richland, O.
Frohnepfel, Geo. .... Allen, Ind.
Gerszenyi, Peter .... Cuyahoga, O.
Galner, Gabino .... Cuba
Grose, Clifford D. .... Stark, O.
Gillingham, G. B. .... Gallia, O.
Henry, H. B. .... Logan, O.
Hoying, Geo. A. .... Mercer, O.
Halliday, Wm. S. .... Greene, O.
Hartford, David G. .... Greene, O.
Jenkins, Daniel M. .... Perry, O.
Johnson, L. M. .... Elkhart, Ind.
Jackson, Wynne L. .... Monroe, N. Y.
Johnston, Mocella .... Warren, O.
Keister, F. Lee Rue .... Potter, Pa.
Kubach, Roland H. .... Erie, O.
Keys, Harlow M. .... Allen, O.
Landers, Floyd H. .... Broome, N. Y.
Lyne, Chas. C. .... Morgan, O.
Lewis, F. C. .... Columbus, O.
Leslie, Clifford E. .... Van Wert, O.
Lloyd, Harry .... Jackson, O.
Laband, Antonio T. .... Cuba
Moore, Claude .... Marion, O.
Mayberry, Kline O. .... Lorrain, O.
McDowell, Vance .... Wayne, O.
Mockler, F. S. .... Fulton, O.
McIntyre, Geo. .... Crawford, O.
McWhirter, F. H. .... Crawford, O.
Mossman, Raymond .... Gallia, O.
Morales, Escolastico .... Cuba
Mathew, Carey H. .... Van Wert, O.
McClurg, Chas. D. .... Fairfield, O.
Miller, A. W. .... Allen, Ind.
Mowiser, J. B. .... Wayne, O.
McIntyre, Francis A. .... Fayette, Pa.
Neil, E. C. .... Ashland, O.
Phelan, Wm. J. .... Hardin, O.
Pace, Edgar .... Hardin, O.
Pace, Merle H. .... Marion, O.
Pace, Harry W. .... Marion, O.
Peters, Stuart H. ..........Morrow, O.
*Penfield, Norman C........Montgomery, O.
Pugh, C. F..............Wood, O.
Payne, Guy............Harrison, W. Va.
 Purvis, Wm. R. .........Paulding, O.
Pense, Harley..............Montgomery, O.
Pense, Earl..............Montgomery, O.
Patterson, Bernice ....Warren, O.
Ramos, Andres C........Cuba
Ramos, Alberto C........Cuba
Robinson, D. G.........Ashland, O.
Robinson, W. W.........Ashland, O.
Reidenbach, Arthur ....Washington, O.
Rockel, Frank W ..........Highland, O.
Runyon, T. G.............Belmont, O.
Ramos, Mrs. Enriqueta ...Cubanula, O.
Sutherlin, Homer L.......Columbia, O.
Shank, Robert............Portage, O.
Shaff, O. W..............Columbia, O.
*Deceased.

Shaw, G. L...........Highland, O.
Shwiart, F. M...........Stark, O.
Stainbrook, Ralph V......Mercer, Pa.
Steiner, Homer...........Putnam, O.
Selzer, Leslie............Summit, O.
Smith, Frank A............Paulding, O.
Seigley, Frank W.........Wayne, O.
Schlosser, Clarence.......Dufiance, O.
Shaw, R. Raymond........Indiana, Pa.
Shaw, Geo...Highland, O.
Thompson, Earl A........Paulding, O.
Thomas, James W........Belmont, O.
Taughier, R. A.........Knox, O.
Tydings, Chas. R........Marion, Fla.
Usabiaga, Benigus ....Cuba
Winkler, J. F............Wayne, O.
Wall, Marion..............Brown, O.
Wise, C. W..............Clermont, O.
Wilch, Scott.............Hancock, O.
Yarnell, C. W...........Henry, O.
Yeager, H. E.............Huron, O.

COLLEGE OF COMMERCE

Business

Alonzo, Antonio ..........Cuba
Anderson, Ammert.......Allgeheny, Pa.
Alvarez, Vicente .......Porto Rico
Bau, C. C...............China
Barber, Jay M...........McKean, Pa.
Baker, James............Hardin, O.
Barber, Robt. H..........Mercer, O.
Brown, Howard...........Ashland, O.
Bodell, G. W............Ashutterstock, O.
Bagnon, J. J............Cooke, Ill.
Barker, Keneth .........Union, O.
Butler, H. L............Garrett, Md.
Bannister, Alfred.....Tompkins, N. Y.
Bindley, Burdette......Marion, O.
Bennett, A. J...........Monroe, N. Y.
Bedrosian, Koharig....Turkey, Asia
Cattrell, G. W..........Jefferson, O.
Collins, W. R...........Clark, O.
Clabaugh, Eugene ......Hardin, O.
Chang, T. T...............China
Clement, Martin J.....Hamilton, N. Y.
Clark, Earl L...........Hardin, O.
Daubenspeck, Roy......Gallia, O.
Ewing, Harold..........Hardin, O.
Evard, Mildred.........Allen, Ind.
Fritsch, Herman .........Miami, O.
Ferreira, E. C. D.......Portugal
Fields, Ralph..........Hardin, O.
Fox, P. W............Montgomery, O.
Gault, Dallas..........Wayne, O.
Grubb, C. G............Allen, Ind.
Gutelles, Frank H......Eric, O.
Canner, Iroquois, Ill.
Hiveley, I. D..........Hardin, O.
Hood, Hugh..............Crawford, O.
Hodge, Paul............Hardin, O.
Hone, Chas. B...........New York
Heil, Albert A..........Auglaize, O.
Heil, Richard A.........Hardin, O.
Hensel, Beatrice M......Hardin, O.
Hensel, Cecile K........Hardin, O.
Jenkins, Raymond M......Cuba
Keasey, G. D............Auglaize, O.
Kennedy, Ernest E.......Eric, Pa.
Kelly, R. P.............Adams, Ind.
King, Leslie W.........Marion, O.
Livingston, Hazel......Wyanand, O.
Lowe, John C...........Stark, O.
Montgomery, Chas.........Hardin, O.
Maurer, Theodore.......Shelby, O.
Moraes, C.............Mexico
McCoppin, George.......Allen, O.
Miller, Ferne...........Marion, O.
Mohr, Ilo...............Van Wert, O.
Nolze, Harmon.........Delaware, O.
Rood, I. Porter........Wyoming, N. Y.
Reck, W. F..............Miami, O.
<table>
<thead>
<tr>
<th>IN COURSE</th>
<th>157</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raabe, Chas.</td>
<td>Putnam, O.</td>
</tr>
<tr>
<td>Rose, Lucile</td>
<td>Monongahela, W. Va.</td>
</tr>
<tr>
<td>Spencer, Park</td>
<td>Montgomery, Ind.</td>
</tr>
<tr>
<td>Stratton, G. W.</td>
<td>Jefferson, O.</td>
</tr>
<tr>
<td>Schauwecker, E.</td>
<td>Wyandot, O.</td>
</tr>
<tr>
<td>Strait, C. A.</td>
<td>Lycoming, Pa.</td>
</tr>
<tr>
<td>Steinback, J. J.</td>
<td>Cook, Ill.</td>
</tr>
<tr>
<td>Schlip, Myrtle M.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Steffanni, Martin J.</td>
<td>Wayne, O.</td>
</tr>
<tr>
<td>Shellito, Howard</td>
<td>Henry, O.</td>
</tr>
<tr>
<td>Stuckey, Victor</td>
<td>Mercer, O.</td>
</tr>
<tr>
<td>Tremain, Pearl</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Taggart, L. Clare</td>
<td>Lawrence, Pa.</td>
</tr>
<tr>
<td>Vermilyea, Wright</td>
<td>Clinton, O.</td>
</tr>
<tr>
<td>Weber, A. C.</td>
<td>Fulton, O.</td>
</tr>
<tr>
<td>Will, A. M.</td>
<td>Wyandot, O.</td>
</tr>
<tr>
<td>Willis, Leroy E.</td>
<td>Delaware, O.</td>
</tr>
<tr>
<td>Walker, R. D.</td>
<td>Morgan, O.</td>
</tr>
<tr>
<td>Walters, Fairfield</td>
<td>Center, Pa.</td>
</tr>
<tr>
<td>Wunder, Chas.</td>
<td>Paulding, O.</td>
</tr>
<tr>
<td>Wilcox, C. J.</td>
<td>McLean, Ill.</td>
</tr>
<tr>
<td>Watkins, Mary L.</td>
<td>Delaware, O.</td>
</tr>
<tr>
<td>Wampler, Emily M.</td>
<td>Montgomery, O.</td>
</tr>
<tr>
<td>Waugh, Martha</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Yoshida, Kaji</td>
<td>Cooke, Ill.</td>
</tr>
</tbody>
</table>

**Stenography**

<table>
<thead>
<tr>
<th>Bilderback, Wayne</th>
<th>Defiance, O.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brady, Glen</td>
<td>Washington, Pa.</td>
</tr>
<tr>
<td>Barnes, Leah</td>
<td>Paulding, O.</td>
</tr>
<tr>
<td>Caminell, Jaine</td>
<td>Spain</td>
</tr>
<tr>
<td>Devaughn, Harry</td>
<td>Nicholas, W. Va.</td>
</tr>
<tr>
<td>Dearbaugh, Henry A.</td>
<td>Auglaize, O.</td>
</tr>
<tr>
<td>Feitsch, J. Herman</td>
<td>Miami, O.</td>
</tr>
<tr>
<td>Hall, Margaret</td>
<td>Crawford, Pa.</td>
</tr>
<tr>
<td>Jefferis, Edgar</td>
<td>Fayette, Pa.</td>
</tr>
<tr>
<td>Kleinfelter, Erma</td>
<td>Clinton, Pa.</td>
</tr>
<tr>
<td>Kennedy, Ernest E.</td>
<td>Erie, O.</td>
</tr>
<tr>
<td>King, Leslie</td>
<td>Marion, O.</td>
</tr>
<tr>
<td>Lowe, J. C. Jr.</td>
<td>Stark, O.</td>
</tr>
<tr>
<td>Morales, C.</td>
<td>Mexico</td>
</tr>
<tr>
<td>Moran, Agnes C.</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Metz, Ruth</td>
<td>Greene, O.</td>
</tr>
<tr>
<td>McLaughin, T. B.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Nelson, Carl</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Prince, Gladys C.</td>
<td>Holmes, O.</td>
</tr>
<tr>
<td>Rood, D. Porter</td>
<td>Wyoming, N. Y.</td>
</tr>
<tr>
<td>Rose, Lucile</td>
<td>Monongahela, W. Va.</td>
</tr>
<tr>
<td>Stewart, Effie M.</td>
<td>Marion, W. Va.</td>
</tr>
<tr>
<td>Spilka, Harvey</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Strait, Carl A.</td>
<td>Lycoming, Pa.</td>
</tr>
<tr>
<td>Will, Albert M.</td>
<td>Wyandot, O.</td>
</tr>
<tr>
<td>Watkins, Mary L.</td>
<td>Delaware, O.</td>
</tr>
<tr>
<td>Wampler, Emily J.</td>
<td>Montgomery, O.</td>
</tr>
<tr>
<td>Walters, Fairfield</td>
<td>Center, Pa.</td>
</tr>
</tbody>
</table>

**SCHOOL OF EXPRESSION**

<table>
<thead>
<tr>
<th>Agin, Walter</th>
<th>Hardin, O.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buopane, Blase</td>
<td>Mahoning, O.</td>
</tr>
<tr>
<td>Dibble, Ray M.</td>
<td>Putnam, O.</td>
</tr>
<tr>
<td>Driscoll, Wm. A.</td>
<td>Clinton, O.</td>
</tr>
<tr>
<td>Dickson, Ethel</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Edie, G. F.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Forbes, Winona</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Feasel, Virgie</td>
<td>Seneca, O.</td>
</tr>
<tr>
<td>Flowers, Vera</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Johnson, H. W.</td>
<td>Morgan, O.</td>
</tr>
<tr>
<td>Koontz, Irwin</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Malloy, H. L.</td>
<td>Stark, O.</td>
</tr>
<tr>
<td>Mathews, Lois</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Porritt, Donald C.</td>
<td>Oakland, Mich.</td>
</tr>
<tr>
<td>Pettit, C. H.</td>
<td>Wyandot, O.</td>
</tr>
<tr>
<td>Ramey, Homer A.</td>
<td>Ottawa, O.</td>
</tr>
<tr>
<td>Rodgers, A. M.</td>
<td>Gallatin, Ill.</td>
</tr>
<tr>
<td>Runser, Imogene</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Rhine, J. Banks</td>
<td>Wayne, O.</td>
</tr>
<tr>
<td>Teany, A. C.</td>
<td>Essex, N. Y.</td>
</tr>
<tr>
<td>Taggart, Winnie R.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Vannorsdall, Harry</td>
<td>Jefferson, O.</td>
</tr>
<tr>
<td>Vestal, Mrs. H. E.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Walley, Ersel</td>
<td>Paulding, O.</td>
</tr>
<tr>
<td>Warburgton, A. F.</td>
<td>Shelby, O.</td>
</tr>
<tr>
<td>Wilson, Irene F.</td>
<td>Hardin, O.</td>
</tr>
</tbody>
</table>

**SCHOOL OF FINE ARTS**

| Altoonian, M. M. | Turkey, Asia |
| Bryan, Joy      | Allen, O.    |
| Brown, Bessie   | Sandusky, O. |
| Clayton, Genevieve| Hardin, O.  |
| Dobbins, Beth   | Hardin, O.   |
| Epple, John A.  | St. Louis, Mo. |
| Fox, Lillian     | Montgomery, O. |
| Goetter, S. Elizabeth | Richland, O. |
| Gilliott, Marie  | Putnam, O.   |
| Hughes, C. F.   | Allen, O.    |
| Johnson, Mrs. R. L.| Hardin, O.  |
| Lutz, Mildred   | Allen, O.    |
| Moore, Ross     | Shelby, O.   |
| McGuffey, Lenty  | Hardin, O.   |
| McClellan, Hannah| Hancock, O.  |
| Mann, Brice     | Hardin, O.   |
| Partington, Perry| Shelby, O.   |
| Parrett, Edna   | Putnam, O.   |
| Platt, Belle    | Mercer, O.   |
| Smith, Lulu M.  | Rock, Wis.   |
| Snow, Angie     | Clarke, O.   |
| Stein, Augusta  | Sandusky, O. |
| Smith, Annie    | Hardin, O.   |
| Thomas, Vada    | Allen, O.    |
| Williams, Esther| Hardin, O.   |
| Wallace, Mac    | Carroll, O.  |
COLLEGE OF MUSIC

Voice

Ames, Dorothy..........................Hardin, O.
Best, E. C......................................Jarke, O.
Barnes, Vera...............................Belmont, O.
Bradley, Ella...............................Hardin, O.
Beuchert, Freda...........................Hardin, O.
Bowers, Aleta..............................Hardin, O.
Conek, Elizabeth..........................Hardin, O.
Caton, Clifford A..........................Summit, O.
Conklin, May...............................Hardin, O.
Collins, Ethel..............................Hardin, O.
Davis, Gladys..............................Shelby, O.
Dobbins, Hazel............................Hardin, O.
Ernsberger, Lloyd..........................Hardin, O.
Ernsberger, Eva.............................Hardin, O.
Eckelberry, Florence......................Hardin, O.
Fishburne, Pearl...........................Hardin, O.
Foer, Mabel.................................Paulding, O.
Green, R. L................................Wayne, O.
Hurst, W. R................................Richland, O.
Hemph, Fayeth..............................Hardin, O.
Huber, Clair M................................Allen, O.
Hull, Marguerite...........................Crawford, Pa.
Harshman, Eva..............................Hardin, O.
Judson, H. R................................Richland, O.
Jones, Blodwyn.............................Hardin, O.
Johnson, Lillian M...........................Allen, O.
Kirkland, Frances...........................Delaware, O.
King, Bertha...............................Hardin, O.
MacDonald, R. H.............................Morgan, O.
Miller, D. R................................LaPorte, Ind.

Piano

Abt, Bernard..............................Hardin, O.
Anspach, Lucile...........................Hardin, O.
Antin, Ella R................................Lucas, O.
Ames, Dorothy.............................Hardin, O.
Bradley, Ella...............................Hardin, O.
Bardelmitre, Ethel..........................Hardin, O.
Benfer, Mayme..............................Tuscarawas, O.
Betz, Lola..................................Hardin, O.
Baily, Miriam..............................Fulton, Ill.
Burnett, Elizabeth.........................Hardin, O.
Conkle, Elizabeth..........................Augusta, O.
Cole, Mildred..............................Hardin, O.
Caton, Clifford............................Summit, O.
Conklin, May...............................Hardin, O.
Charles, Grace..............................Hardin, O.
Cotner, Goldie.............................Hardin, O.
Dunbar, Edna...............................Allen, O.
Davis, Gladys..............................Shelby, O.
Deming, Jack...............................Hardin, O.
Dearth, Ilo...................................Hardin, O.
Doer, Mabel.................................Paulding, O.
Frazier, Nelle..............................Auglaize, O.
Foley, Dorothy............................Hardin, O.
Frye, Margaret............................Hardin, O.
Eckelberry, Florence......................Hardin, O.
Garman, Lavonne...........................Harlin, O.
Holman, Karl...............................Hardin, O.
Hughes, Elva..............................Champaign, O.

Monroe, Gladys............................Hardin, O.
McCue, Mrs. Ray............................Hardin, O.
McElroy, Ethel.............................Hardin, O.
McAllams, Lenore..........................Hardin, O.
Moore, Sylvia..............................Hardin, O.
Moreland, Mrs. A. W........................Jefferson, O.
Marmon, Josephine.........................Allen, O.
McDowell, Don.............................Hardin, O.
Montgomery, Reuben........................Hardin, O.
McNall, Goldie............................Van Wert, O.
McConnell, Delilah.........................Beaver, Pa.
Parks, Faye.................................Richland, O.
Pyle, Mrs. Jacquetta......................Allen, O.
Poling, Esther.............................Hardin, O.
Parrett, Mella..............................Putnam, O.
Pugh, Ethel.................................Hardin, O.
Russell, Lucile............................Hardin, O.
Shelton, Elsie V............................Hardin, O.
Sinek, Dorothy.............................Hardin, O.
Sinek, Artice...............................Hardin, O.
Sprain, Goldie.............................Van Wert, O.
Sells, Paul.................................Hardin, O.
Thayer, Marion............................Allen, O.
Wells, Zella.................................Logan, O.
Weber, Walter R............................Van Wert, O.
Wickerham, Hazel..........................Hancock, O.
Wallace, Mac...............................Carroll, O.
Welch, Zella.................................Huron, O.

Hunsicker, Pearl.........................Hardin, O.
Hunsicker, Maude...........................Hardin, O.
King, Bertha...............................Hardin, O.
Kuhn, Valda.................................Mercer, O.
Kuhn, Meda.................................Mercer, O.
Long, Jesse.................................Hardin, O.
Miller, Stanley............................Hardin, O.
McNall, Goldie.............................Van Wert, O.
McCormick, Delilah.........................Beaver, Pa.
Montgomery, Josephine....................Allen, O.
McElroy, Naomi............................Hardin, O.
Miller, Inez.................................Hardin, O.
Morrison, Helene.........................Allen, O.
McColm, Mrs. Pearl.........................Hardin, O.
Parrett, Mella..............................Putnam, O.
Pender, Gladys..............................Wayne, Mich.
Phillips, Mary.............................Hardin, O.
Pett, Ada..........................Van Wert, O.
Pugh, Ethel.................................Hardin, O.
Rigel, Cona.................................Hancock, O.
Rothermund, Bertha.........................Belmont, O.
Rayl, Ruth.................................Hardin, O.
Russer, Genevieve.........................Hardin, O.
Russer, Mary...............................Hardin, O.
Smith, Paul V..............................Hardin, O.
Smith, Harriet V...........................Hardin, O.
Slyper, Beatrice L........................Allen, O.
<table>
<thead>
<tr>
<th>Snyder, Ruth</th>
<th>Hardin, O.</th>
<th>Wollam, Nora</th>
<th>Hardin, O.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shanklin, Ruth</td>
<td>Hardin, O.</td>
<td>Wickerham, Hazel</td>
<td>Hancock, O.</td>
</tr>
<tr>
<td>Strahm, Leila</td>
<td>Hardin, O.</td>
<td>Warren, Ethel</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Spotts, Ruth</td>
<td>Richland, O.</td>
<td>Whitworth, Eleanor</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Shuster, Julia</td>
<td>Hardin, O.</td>
<td>Walker, Ida</td>
<td>Hancock, O.</td>
</tr>
<tr>
<td>Sprain, Goldia</td>
<td>Van Wert, O.</td>
<td>Wilson, Ruth</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Weber, Walter R.</td>
<td>Van Wert, O.</td>
<td>Wells, Zella</td>
<td>Logan, O.</td>
</tr>
<tr>
<td>Wallace, Mae</td>
<td>Carroll, O.</td>
<td>Zitt, Kathleen</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Davis, Gladys</td>
<td>Shelby, O.</td>
<td>Rothermund, Bertha</td>
<td>Belmont, O.</td>
</tr>
<tr>
<td>Estill, Lydia</td>
<td>Van Wert, O.</td>
<td>Seebach, Lester</td>
<td>Wyandot, O.</td>
</tr>
<tr>
<td>Kephart, Mrs. J. B.</td>
<td>Hardin, O.</td>
<td>Spyker, Beatrice</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Ames, Mildred</td>
<td>Hardin, O.</td>
<td>Jones, Chas</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Ames, Dorothy</td>
<td>Hardin, O.</td>
<td>Kuhn, Meda</td>
<td>Mercer, O.</td>
</tr>
<tr>
<td>Bowers, Anna</td>
<td>Hardin, O.</td>
<td>MacDonald, R. H.</td>
<td>Morgan, O.</td>
</tr>
<tr>
<td>Battles, Harry</td>
<td>Hardin, O.</td>
<td>Phillips, Luella</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Cotner, Leroy</td>
<td>Hardin, O.</td>
<td>Parrett, Edna</td>
<td>Putnam, O.</td>
</tr>
<tr>
<td>Cotner, Mary</td>
<td>Hardin, O.</td>
<td>Rothrock, Ella</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Cunningham, Isabel</td>
<td>Hardin, O.</td>
<td>Rainier, Constance</td>
<td>Franklin, O.</td>
</tr>
<tr>
<td>Davis, Gladys</td>
<td>Shelby, O.</td>
<td>Schlup, Myrtie M.</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Elder, Maurice</td>
<td>Hardin, O.</td>
<td>Snyder, Lowell</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Fisher, Hazel</td>
<td>Auglaize, O.</td>
<td>Young, Lynn</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Best, E. C.</td>
<td>Darke, O.</td>
<td>Monce, Gladys</td>
<td>Hardin, O.</td>
</tr>
<tr>
<td>Bradley, Ella</td>
<td>Hardin, O.</td>
<td>McAdams, Lenore</td>
<td>Allen, O.</td>
</tr>
<tr>
<td>Betz, Lela</td>
<td>Hardin, O.</td>
<td>Marmon, Josephine</td>
<td>Allen, O.</td>
</tr>
</tbody>
</table>
| Baily, Miriam       | Fulton, Ill.| McNall, Goldie    | Van Wert, O.
| Barnes, Vera        | Belmont, O. | Phillips, Mary    | Hardin, O. |
| Caton, Clifford     | Summit, O.   | Pugh, Ethel       | Hardin, O. |
| Conklin, May        | Hardin, O.  | Parrett, Edna     | Putnam, O. |
| Dunber, Edna        | Allen, O.    | Riegel, Cora      | Hancock, O.|
| Eckelberry, Florence| Hardin, O.  | Shell, Elsie      | Hardin, O. |
| Faber, Earle E.     | Warren, Ill.| Spyker, Beatrice  | Allen, O.  |
| Garmon, Lavonne     | Hardin, O.  | Wells, Zella      | Logan, O.  |
| Huber, Clair M.     | Allen, O.    | Walker, Ida       | Hardin, O. |
| King, Bertha        | Hardin, O.  | Weber, Walter R.  | Van Wert, O.|
| MacDonald, R. H.    | Morgan, O.  |                        |            |
| Musical History     |            |                    |            |
| Betz, Lela          | Hardin, O.  | McAdams, Lenore    | Hardin, O. |
| Baily, Miriam       | Fulton, Ill.| McAdams, Lenore   | Hardin, O. |
| Bradley, Ella       | Hardin, O.  | Parrett, Mella     | Putnam, O. |
| Barnes, Vera        | Belmont, O. | Phillips, Mary     | Hardin, O. |
| Conklin, May        | Hardin, O.  | Runser, Genevieve  | Hardin, O. |
| Collins, Ethel      | Hardin, O.  | Rothermund, Bertha | Belmont, O.|
| Dunber, Edna        | Allen, O.    | Shell, Elsie      | Hardin, O. |
| Eckelberry, Florence| Hardin, O.  | Spyker, Beatrice L.| Allen, O.  |
| Garmon, Lavonne     | Hardin, O.  | Weber, Walter R.  | Van Wert, O.|
| Harshman, Eva       | Hardin, O.  | Walker, Ida       | Hancock, O.|
| Huber, Clair M.     | Allen, O.    |                        |            |
| Loy, Mrs. Elsie     | Hardin, O.  | Wallace, Mae      | Carroll, O.|
| Theory of Music     |            |                    |            |
| MacDonald, R. H.    | Morgan, O.  | Weber, Walter R.  | Van Wert, O.|
| Monce, Gladys       | Hardin, O.  | Wells, Zella      | Logan, O.  |
| Spyker, Beatrice L. | Allen, O.   | Warren, Ethel     | Hardin, O. |
Counterpoint
Caton, Clifford..................................Summit, O. Eckelberry, Florence.......Hardin, O.
Baily, Miriam..................................Fulton, Ill. Wickerham, Hazel........Hancock, O.
Burnett, Elizabeth..............................Hardin, O.

Public School Music
Ernberger, Eva..................................Hardin, O. LaRue, Gertrude...........Seneca, O.

COLLEGE OF AGRICULTURE
Ash, Ralph......................................Hardin, O. Montgomery, Reuben.....Hardin, O.
Ash, Elmer......................................Hardin, O. Owens, Joseph V.......
Altoonian, M. M................................Turkey, Asia Odbert, Ivan........W. Moreland, Pa.
Cessna, C. L....................................Hardin, O. Powell, Clayton........Hardin, O.
Chandler, Horace..............................Wyandot, O. Poe, Stanley..........Hancock, O.
Dodson, Kenneth..............................Clark, O. Sells, Lester..........Franklin, O.
Dailey, Deane..................................Henry, O. Snively, Mark........Butler, O.
Fox, Walter....................................Wyandot, O. Storer, Stacy........Clermont, O.
Fireoved, L. R..................................Richland, O. Van Buren, Keith.....Hardin, O.
Hallett, Melvin B.............................Plymouth, Mass. Van Buren, Vernon.....Hardin, O.
Johnson, Vernon E................................Hampden, Mass. Warbington, L F........Shelby, O.
McRoberts, W. J. Jr..........................New York, N. Y. Weaver, W. W........Hamiltom, O.
Maurer, Theo....................................Shelby, O. West, Arthur L........Shelby, O.

DOMESTIC SCIENCE
Bodey, Alta....................................Champaign, O. Moorman, Clara........Mercer, O.
Bedrosian, Koharig............................Asia Nash, Helen...............Hardin, O.
Chandler, Anna..............................Wyandot, O. Rabe, Lily L............Mercer, O.
Fox, Lillian.................................Montgomery, O. Sites, Mary............Adams, Pa.
Hackman, Martha................Armstrong, Pa. Sites, Mrs. Geo........Washington, Md.
Kemmerly, Dorothy.........................Wyandot, O. Sink, Ruth............Wyandot, O.
Kizer, Alta....................................Champaign, O. Skidmore, Mrs........Logan, O.
Lovell, Gayle.................................Hancock, O. Wren, Clara..........Hardin, O.
McDonald, Mabel.............................Washington, Md. Ziegler, Nellie........Putnam, O.

UNIVERSITY BULLETIN
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 on
July 16, 1894.