OHIO NORTHERN UNIVERSITY

CATALOGUE

JANUARY, NINETEEN SEVENTEEN
OHIO NORTHERN UNIVERSITY

ANNUAL CATALOG

JANUARY, 1917
<table>
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<tr>
<th>Calendar 1917</th>
<th>January</th>
<th>July</th>
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<td>FEBRUARY</td>
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**Note:** The table represents a yearly calendar for the years 1917 and 1918, with each month having its respective dates.
Ohio Northern University Bulletin

New Series. ADA, OHIO, JANUARY, 1917 Vol. XI, No. 1

This issue of the Bulletin gives information regarding courses of study for 1917, tuition-rates, cost of board and room, conditions of entrance, calendar, roster of names for 1916, and other matters of interest to prospective students.

A comparison with previous issues will reveal to former students of Ohio Northern the steady growth and change for the better that is going on in material equipment, additional instructors, 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 Ohio Northern is forty-eight weeks in length. A three-year curriculum leading to the Bachelor's degree means 144 weeks of fifteen hours of recitations a week. This is the same time that is required elsewhere in four-year curriculums based on thirty-six weeks a year with a 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
March 6, Tuesday ____________________Spring Quarter Begins
May 18, Friday (8:00 P. M.)_________College of Music Recital
May 20, Sunday, (10:00 A. M.)______Baccalaureate Sermon
May 20, Sunday, (8:00 P. M.)________Christian Association Address
May 21, Monday, (9:00 A. M.)_________Field Sports
May 21, Monday, (2:00 P. M.)_________Athletic Sports
May 21, Monday, (8:00 P. M.)________President's Reception
May 22, Tuesday, (8:00 A. M.)_______Girls' Fete Champetre
May 22, Tuesday, (9:30 A. M.)________Military Contest
May 22, Tuesday, (10:00 A. M.)______Annual Meeting of Trustees
May 22, Tuesday, (12:00 M.)__________Alumni Banquet
(Annual Alumni Business Meeting immediately after Banquet)
May 22, Tuesday, (2:00 to 5:00 P. M.)_____Society Reunions
May 22, Tuesday, (5:30 P. M.)_______Military Dress Parade
May 22, Tuesday, (8:00 P. M.)_______Choral Society Concert
May 23, Wednesday, (8:30 A. M.)______Class Day Exercises
May 23, Wednesday, (1:30 P. M.)______Commencement Address
May 23, Wednesday, (8:00 P. M.)_____Military Cadet's Reception
May 25-June 4 ______________________Commencement Vacation
June 5, Tuesday______________________Summer Quarter Begins
June 5, Tuesday______________________First Special Summer Term Begins
July 7, Saturday_____________________First Special Summer Term Ends
July 9, Monday______________________Second Special Summer Term Begins
August 10, Friday___________________Summer Quarter and Second Special
Summer Term ends.

SUMMER VACATION
September 10, Monday___________Registration Day for 1917-18
September 11, Tuesday___________Fall Quarter, 1917-18 Begins
October 2, Tuesday_______________College of Pharmacy Opens
November 28, Wednesday__________Fall Quarter Ends
November 28-December 3__________Thanksgiving Recess
December 4, Tuesday______________Winter Quarter Begins
December 21-January 1____________Christmas Vacation

1918
February 28, Thursday______________Winter Quarter Ends
March 5, Tuesday__________________Spring Quarter Begins
GENERAL DIRECTIONS

General Directions

Persons intending to enter the University and desiring to arrange beforehand in regard to credits, course of study, or other matters will address, "The University, Ada, Ohio."

The most satisfactory classification is arranged at the opening of the school year; however, students are admitted and assigned to classes 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, is required to spend at least thirty-six weeks in residence.

On arrival the newcomer is expected to report at once at the University office to receive needed information regarding lodging places and boarding houses, obtain a card of matriculation and arrange his work. After matriculation and also at the beginning of each term, on the payment of the tuition fee, the student is given a "classification card," which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these, together with his approval, on the "classification card." The card thus becomes a ticket of admission to the classes named thereon.

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

The first Monday of each quarter is Registration Day for new students, Tuesday for former students. All students, former and new, will report to their instructors on Tuesday and be ready for Wednesday's class-work and lectures.

Requests for Credits

To insure prompt attention, requests for credits, certificates of graduation, class standing, recommendations, et
cetra, 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.

Seat of Ohio Northern

Ada, the seat of the Ohio Northern University, is an attractive little city in Northwestern Ohio, on the Pittsburg, Fort Wayne & Chicago Division of the Pennsylvania Railroad. 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-awareness 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
GENERAL DIRECTIONS

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 camaraderie 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 College 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 College of Agriculture

and

Vocational
9. The School of Expression
10. The School of Fine Arts

11. The Preparatory School
12. The Department of Military Instruction
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<tr>
<td>1898 REV. D. H. BAILEY, D. D.</td>
<td>Defiance, 1917</td>
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<td>1907 MR. S. A. BOWMAN</td>
<td>Celina, 1917</td>
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<td>1914 REV. MARCELLUS B. FULLER, D. D.</td>
<td>Lima, 1917</td>
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<td>1913 REV. WM. A. WIANT, D. D.</td>
<td>Springfield, 1918</td>
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<td>1913 REV. JAS. R. COLLEY, D. D.</td>
<td>Piqua, 1918</td>
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<td>1905 HON. J. H. CLARK</td>
<td>Marion, 1918</td>
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<td>1914 MR. J. W. BOREN</td>
<td>Dayton, 1919</td>
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<td>1914 REV. DANIEL McGURK, D. D.</td>
<td>Cincinnati, 1919</td>
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<td>1914 REV. CYRUS M. VAN PELT, D D.</td>
<td>Delaware, 1919</td>
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<td>1914 MR. C. W. MOOTS, M. D.</td>
<td>Toledo, 1920</td>
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<td>1910 MR. S. D. HAZLETT</td>
<td>Ada, 1920</td>
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<td>1915 MR. H. E. MEYERS</td>
<td>Springfield, 1920</td>
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<td>1899 HON. S. A. HOSKINS, A. M.</td>
<td>Wapakoneta, 1921</td>
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<td>1913 MR. JOSEPH H. EDWARDS</td>
<td>Leipzig, 1921</td>
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<td>1911 MR. GEORGE E. WHITNEY</td>
<td>Marysville, 1921</td>
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<th>Elected by the Alumni</th>
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<tr>
<td>1912 MR. WALTER ELLIOTT</td>
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<td>1916 FREDERICK A. LORENZ, D. Com. Sci.</td>
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<td>1914 REV. AARON S. WATKINS, LL. D.</td>
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<tr>
<td>1910 REV. J. WESLEY HILL, D. D., LL. D.,</td>
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<td>1916 HON. FRANK B. WILLIS, LL. D.</td>
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<th>At Large, Elected by the Trustees</th>
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<tr>
<td>1911 HON. HENRY CLEWS, PH. D., LL.D.,</td>
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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, 1871-1902. 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 Dean of College of Education.
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 Normal University, 1900-1905; Superintendent Lima Public Schools, 1905-1915; Vice President and Professor of History, Ohio Northern, 1915-1916; Dean of College of Education, 1916—

CHARLES BYRON WRIGHT, G. S., 425 North Main.
Executive Secretary.
Baldwin's Business Academy 1888; B. Sten., Ohio Normal University, 1891; G. S., 1892.
Instructor in Stenography, Business English and Correspondence, Ohio Normal University, 1892-1903; Dean of College of Commerce and Corresponding Secretary Ohio Northern, 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 Normal University, 1900-1904; Professor of Latin Ohio Northern, 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 and
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, Ohio Northern, 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-...

LENIX CRAIG SLEESMAN, 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 EVERT HUBER, A. M., 220 South Main
Professor of Biology and Geology.
A. B., Ohio Northern, 1909; A. M., Yale University, 1912.
Teacher of Biology, Physics and Chemistry in Glenwood (Colo.) H. S., 1909-1911; Laboratory Assistant in Biology, Yale University, 1911-1913; Professor of Biology and Geology Ohio Northern, 1913-...
OHIO NORTHERN UNIVERSITY

LAWRENCE LEROY 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, 1914-1915;
Professor of Political Science, 1915—.

WILLIAM HENRY TRAINUM, A. M., B. D., 207 W. Ballard.
Professor of Psychology and Social Philosophy.
A. B. (Class.), Dexter College, 1905; A. M., North Western Uni-
versity, 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 Psych-
ology and Science of Education, Kirksville State Teachers' Col-
lege, 1911-1912; Graduate Student in University of Chicago, six
quarters, 1912-1914; Professor of Psychology and Social Sciences
Ohio Northern, 1914—.

ALFRED B. BUTTS, A. M., (Columbia).
Lecturer on International Relations.
(Summer Quarters, 1915-1916)

ARTHUR BEECHER WALTERMIRE, B. S., 124 E. Montford.
Professor of History.
B. S., in Education, Ohio State University, 1916.
Professor of History, Ohio Northern, 1916—.

CARRIE ADEL WILSON, B. E., 221 East Williams.
Instructor in Paidalogy, Principles of Teaching
and Methods.
B. E., Ohio Northern University, 1908.
Instructor and Training Teacher, Ohio Northern, 1914—.

WALTER GRAY,
Principal Model School.
(Summer Terms, 1915-1916)

EDITH WALSH
Instructor in Primary Methods.
(Summer Term, 1916.)
ANNA M. VAUGHAN
Critic Teacher in Primary Grades.
(Summer Terms, 1915-1916)

RHEA WELSH
Primary Construction Work.
(Summer Terms, 1915-1916)

MRS. M. C. GAREISSEN
Primary Reading and Language.
(Summer Term, 1916.)

THOMAS JEFFERSON SMULL, ARCHT., C.E., 301 S. Main.
Professor of Civil Engineering and Dean of
College of Engineering.
C. E., Ohio Northern 1904; Archt., 1906.
Post-graduate Student at Lafayette College, Pa., 1904-1905;
Professor of Civil Engineering and Architecture, Ohio Northe-
ern, 1905---.

CHARLES ADDISON MILLER, C. E., 308 E. 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; Pro-
fessor of Engineering, Ohio Northern, 1911---.

Professor of Electrical Engineering.
M. E. Ohio Northern, 1912; E. E., 1913.
With General Electric Co., Pittsfield, Mass., 1913-1914; Pro-
fessor of Electrical Engineering, Ohio Northern, 1914---.

JAMES ALEXANDER CALDERHEAD, B. S., C. E., A. M.,
Professor of Mathematics. 931 S. Main.
B. S., Mount Union College, 1893; C. E., Ohio State University,
1896; A. M., University of Pittsburg, 1898.
Professor of Mathematics, Curry University, 1896-1900;
Designing Engineer, Westinghouse Electric and Manufactur-
ing Co., 1900-1906; Mechanical Engineer, General Electric Co.,
1906-1907; Computing Engineer, Westinghouse Air Brake Co.,
1907-1915; Computing Engineer, Gramm Motor Co., 1915-1916;
Professor of Mathematics, Ohio Northern, 1916---.
JOHN ALFRED NEEDY, B. S., 718 South Main
Professor of Mechanical Engineering.
B. S., in Mechanical Engineering, University of Kentucky, 1911.
Employed in Drafting Rooms, 1911-1913; Instructor in
Witherspoon College, Kentucky, 1913-1915; With Murphy Automatic Smokeless Furnace Works Detroit, Mich, 1915; Professor of
Mechanical Engineering, Ohio Northern, 1916—.

STRAWDER ARTHUR RINGER, B. C. S., 401 East Long
History of Commerce, Salesmanship and Dean of
College of Commerce.
B. C. S., Ohio Northern, 1911.
Instructor in Dennison, Ohio, H. S., 1911-1912; Principal, Department of Commerce, Steubenville, O., H. S., 1912 (three
months); Principal, College of Commerce, Ohio Northern, 1912-
1915; Instructor in Salesmanship, 1915; Dean of College of Com-
merce Ohio Northern, 1916—.

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—.

JAY PAUL TAGGART, LL. B., 509 S. Gilbert
Professor of Law and Dean of College of Law.
LL. B., Ohio Northern, 1908.
Attorney-at-Law, 1908-1914; Professor of Law, Ohio
Northern, 1914—.

WILLIAM WESLEY RUNSER LL. B., 120 W. Buckeye.
Professor of Law and Attorney for the University.
LL. B., Ohio Northern.
Instructor in Ohio Northern, 1899-1904, Attorney-at-Law
1904-1914; Professor of Law, Ohio Northern, 1914—.
JACOB SWART, A. M., LL. B., 604 South Gilbert.
Professor of Law.

Professor of Law, Ohio Northern, 1916—.

CARL ARMSTRONG, LL. B.,
Professor of Law.

LL. B., Ohio Northern, 1907.
Attorney-at-Law, 1907-1916; Professor of Law, Ohio Northern 1916—.

DAVID CHRISTIAN MOHLER, Ph. G., 408 S. 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 RAABE, Ph. G., Ph. C., 316 S. Gilbert.
Professor of Materia Medica and Practical Pharmacy.

Ph. G., Ohio Northern, 1910; Ph. C., 1911.
Instructor in College of Pharmacy, Ohio Northern, 1911—.

FRED KILLEEN,
Professor of Voice and Dean of College of Music.

Graduate of University of Michigan, School of Music, 1905;
Assistant in Voice, 1905-1907; Pupil Sig. De Macchi and Harriet Ware, New York City 1907-1909;
Teacher of Voice, conductor of Chorus and Glee Club, Michigan Agricultural College, 1910-1916;
Dean of College of Music, Ohio Northern, 1916—.

WILLIAM P. LAMALE, Mus. B., 124 E. Montford.
Professor of Organ and Piano.

Mus. B., Oberlin College Conservatory, 1910.
Teacher of Piano and Organ, Hope College, Michigan, 1910-1912;
Postgraduate student with Dr. G. W. Audres, Oberlin;
summer 1911. Instructor in piano and organ, Cornell College, Mt. Vernon, Iowa, 1912-1914;
Student with Tobias Mathey and Mathilda Verne, London, 1914-1915;
Professor of Organ and Piano, Ohio Northern, 1916—.

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, Ohio.
Instructor in Violin.
Chicago Musical College, 1904-1907; Graduate under Hugo
Heerman, 1907; Study with Stephen Suchy, Royal Conserva-
torium at Prague, 1911-1912; With Leopold Auer at St. Peters-
burg, 1912-1913.

PAULINE ABT,
Children's Piano Department.

MARY HELEN LEY,
Instructor in Fine Arts.

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

MAJOR CLIFFE DEMING, A. M.,
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—.

MRS. MAE DEMING McCOPPIN,
Instructor in School of Expression.

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

ELLEN KATHRYN ROTHROCK, A. B.,
Instructor in Preparatory Algebra and Geometry.
A. B., Ohio Northern, 1915.
Instructor in Algebra and Geometry, Ohio Northern, 1916—.

NELL SALT, A. B.,
Instructor in Preparatory History and English.
A. B., Western College for Women, 1916.
Instructor in History and English, Ohio Northern 1916—.
FACULTY AND OFFICERS

ROBERT DUKES WRIGHT, 425 North Main
Assistant in Chemistry.

HARRY RICHARD TAUBKIN, 411 South Johnson.
Instructor in Preparatory Botany and Physiology.

HOWARD D. HARVEY, 721 South Johnson.
Assistant in Mathematics.

WILLIAM MACKENZIE DUTCHE, 615 South Johnson.
Assistant in Hydraulic and Cement Laboratories.

RAY E. DIEHL, 31. South Gilbert.
Assistant in Pharmacy Laboratories.

SIDNEY AILES, 424 South Gilbert.
Assistant in Physics Laboratory.

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

West Point. Commandant, Ohio Northern, 1914—-

ROLAND BEVAN, 621 South Johnson.
Physical Director and Assistant Coach.

GRACE REEDER, 609 South Johnson.
Physical Director of Women.

ALLEN N. WISELEY, M. D., Tressel Block.
Medical Examiner.

LAWRENCE LEROY LOUTHIAN, A. M., 220 South Main.
Librarian.

MARY ELSIE WILSON, A. B., 324 East Lincoln.
Assistant Librarian.

FLO L. CRONBAUGH, 310 East Williams.
Stenographer.

RALPH HARSHMAN, 616 South Main
President Y. M. C. A.
MARGARET McDOWELL, 213 North Gilbert
President Y. W. C. A.

JOHN DEXTER TEMPLETON, 215 West Highland.
Chief Custodian of Buildings.

OLIVER GILBERT, 606 South Johnson.
Assistant Custodian of Buildings.
GENERAL INFORMATION

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, Needy.
Catalog: Professors Whitworth, Wright, Dr. Smith.
Editing: Professors Wright, Freeman, Groth, Scheid, Miss Holmes.
Entrance: Professors Whitworth, Smull, Schoonover.
Finance: Professor Wright, Miss Holmes, Dr. Smith.
Girls' Welfare: Dr. Davison, Miss Wilson, Miss Holmes, Miss Bowers, Miss Rothrock, Miss Salt.
Graduation and Degrees: The Deans and Principal of Preparatory School.
Gymnasium: Dr. Smith, Professors Simon, Needy, Miss Wilson, Miss Salt.
Library: Professors Freeman, Trainum, Schoonover, Louthian, Killeen, Wateimire, Dr. Davison.
Literary Societies: Professors Ringer, Raabe, Simon.
Loan Fund: Professors Whitworth, Wright, Dr. Smith.
Military: Professors Schoonover, Calderhead, McEachron.
Scholarship: Professor Huber, Miller, Whitworth.
Student Publications: Dr. Davison, Professors Whitworth Swart.
Summer School: Dr. Davison, Professors Wright, Berger, Freeman, Lamale.
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, Telegraphy, Fine Art, Stenography, Engineering, Military, Law and Pharmacy.

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

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

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

In the spring of 1910 the Trustees recognized the College of Liberal Arts as distinct from the Normal School, and appointed a dean in charge. The courses leading to the scholastic degrees were strengthened, the standard number of hours required for the bachelor degrees adopted, and the conferring of the Master's degree discontinued until such time as the resources of the institution should permit organization for postgraduate 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 thoroughly remodeled; two have been completely dismantled and one destroyed by fire. In their stead there have been erected five 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, fitted and equipped for gymnasium and armory and used as an assembly hall for social functions. Recently a wing has been added, with extensive equipment and special appliances for instruction in Domestic Science.

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

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

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

Laboratories and Museum

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

The Chemical and Physical Laboratories are large, well-lighted, and equipped with natural gas and the latest conveniences. In the general chemical laboratory are one hundred and twelve lockers with first class outfits, including all 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 both in preparatory and college Sophomore physics.

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

The Museum contains numerous specimens and collections for illustrating geology and the biological sciences. In the geological alcove are found all the common minerals and ores, many rare ones, meteorites, plant and animal fossils representing the chief orders of geological importance, the shells and skeletons of many living molluscs and vertebrates. The zoological alcove exhibits about 200 birds, representing one or both sexes of nearly all of those common to this region, all animals, native to Ohio, many kind 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

An indispensable part of the equipment of an institution of learning is a well selected library. In the disastrous fire of three years ago, the University lost its library; not a sheer calamity, perhaps, for in its stead there is being established by purchase and gift a new and better one, in apartments built especially for the purpose, on the second floor of Lehr Memorial. Here in spacious and well-lighted quarters have been provided a reading room accommodating one hundred and fifty students: a stack room with capacity for 60,000 volumes, and a large corridor filled with departmental reference volumes. Massive oak tables and chairs, beautiful pictures, good light and ventilation, quiet and earnest fellow students, make this an ideal place in which to spend pleasant
and profitable hours. The use of the library is absolutely free to all students.

To the south, on the same floor, is located the Law Department with a legal reference library of some 2000 volumes.

Since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institution are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds.

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

Athletic Field

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

University Farm

The University possesses a tract of land within a block and a half of the campus, containing ninety acres of rich, productive soil under cultivation. 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.

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

Scholarships. The University has received through generous donors four scholarships of $1000.00 each, the income of which, amounting to $50 to $60 per year, is to be devoted to the assistance of worthy students. The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and the Faculty of the University, and must have been in attendance at least one
term before receiving aid. The scholarships are as follows:

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

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

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

4. The Parlette Scholarship, by Ralph Parlette of Chicago, Ill.

Prizes. Through the President of the University, prizes of $15 and $10 are awarded to winners in an annual oratorical contest among the three Literary Societies.

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

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

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

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

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

Student Societies and Activities

Literary Societies. Three flourishing Literary Societies, chartered, and meeting in well furnished assembly rooms, are maintained by the students exclusively—the Franklin, Philomathean and Adelphian. 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 Ohio Northern Debating Association, a student organization, arranges for and engages in forensic contests between Ohio Northern and other institutions. Membership is open to any student interested in the object of the association, irrespective of department. Ten per cent of the athletic fee is appropriated to the maintenance of forensic work. Debaters are selected and assisted in their training by a faculty committee. As a mark of distinction the University letter is awarded to those participating in intercollegiate contests. At present Ohio Northern belongs to a league of which the other members are Otterbein, Muskingum, Hiram, Heidelberg, and Cincinnati.

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 Young Women's Christian Association has a membership including about ninety per cent of the young women in attendance at the school.

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission Study classes are organized under efficient teachers.

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 Brown Gymnasium 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 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, interclass and intersociety sports are also encouraged.

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

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

Military Drill. Every able-bodied male student intending to complete any of the University curriculums, is required to drill and recite in this department three quarters and "go through contest." During the school year of 1916-17 a student may elect gymnasium practice instead of military drill.

Physical Training. A department of Physical Training has been organized and put in charge of a skillful director, with a view to the proper physical exercise, development and culture of the student. A medical examiner is employed, under whose advise the training called for in the individual case is carried on. Similar provision is made for the women.

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.
Students are not permitted to
(a) Use tobacco on the University grounds or in the buildings;
(b) Use intoxicating liquors;
(c) Frequent pool rooms;
(d) Attend public or private dances;
(e) Be absent from Chapel service, class exercises and lectures without satisfactory excuse.

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

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

For one quarter, (12 weeks), in advance $15.00
For two quarters, in advance 29.00
For three quarters, in advance 43.00
For four quarters, in advance 56.00

In the College of Engineering and College of Law:
For one quarter (12 weeks), in advance $17.00

In the College of Pharmacy:
Tuition for 32 weeks, including drugs, chemicals, laboratory (excepting microscopical) 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 special fee of $1.00 is charged for late enrollment.

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

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

Laboratory Fees

Fees to cover 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, D. D., Ph. D.,
President

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

RICHARD HOLMES SCHOONOVER, 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.

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

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

ARTHUR BEECHER WALTERMIRE, B. S.,
History.

JAMES ALEXANDER CALDERHEAD, B. S., A. M.,
Mathematics.

ROBERT DUKE 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 preacademic or grammar school studies, four years of high school preparation, or a full equivalent, including all subjects specifically required for entrance upon the several courses offered. Applicants must complete the required preparatory work, if their certificates from other schools show that this work has not been finished. 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 applicants must present credentials duly made out and signed by the proper official of the school from which he comes, and showing in detail (1) the text book used in each subject, (2) the amount completed, (3) the number of weeks spent thereon, (4) the length in minutes of the recitation period, and (5) the mark or grade secured. Blanks for this purpose may be had by addressing "The University" and enclosing a self-addressed, stamped envelope.

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 to 4 units</td>
<td>Physiology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Greek</td>
<td>1 or 2 units</td>
<td>Biology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Latin</td>
<td>2 to 4 units</td>
<td>Agriculture</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>German</td>
<td>1 or 2 units</td>
<td>Chemistry</td>
<td>1 unit</td>
</tr>
<tr>
<td>French</td>
<td>1 or 2 units</td>
<td>Botany</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Spanish</td>
<td>1 or 2 units</td>
<td>Geology</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>History</td>
<td>1 to 4 units</td>
<td>Astronomy</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Civics</td>
<td>½ unit</td>
<td>*Bookkeeping</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Economics</td>
<td>½ unit</td>
<td>*Commercial Law</td>
<td>½ unit</td>
</tr>
<tr>
<td>Adv. Arithmetic</td>
<td>½ unit</td>
<td>*Stenography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Algebra</td>
<td>1 or 1½ units</td>
<td>*Shop-Work</td>
<td>1 unit</td>
</tr>
<tr>
<td>Geometry</td>
<td>1 or 1½ units</td>
<td>*Freehand Draw'g</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Plane Trigonometry</td>
<td>½ unit</td>
<td>*Com. Geography</td>
<td>½ or 1 unit</td>
</tr>
<tr>
<td>Physics</td>
<td>½ unit</td>
<td>*Domestic Science</td>
<td>1 unit</td>
</tr>
<tr>
<td>Physiology</td>
<td>½ or 1 unit</td>
<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.”

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 preparatory 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. 10. Greek.
8. English. 17. Political Science.
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.

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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>18</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>15</td>
</tr>
<tr>
<td>History</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>15</td>
</tr>
<tr>
<td>Psychology</td>
<td>9</td>
</tr>
<tr>
<td>Political Science</td>
<td>9</td>
</tr>
<tr>
<td>Sociology</td>
<td>9</td>
</tr>
<tr>
<td>English Bible</td>
<td>10</td>
</tr>
<tr>
<td>Biology 9 or Physics</td>
<td>12</td>
</tr>
</tbody>
</table>

For additional courses in these departments, necessary for graduation, see the respective schedules following.

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. 3</td>
<td>Survey of English</td>
<td>Sociology I. 3</td>
</tr>
<tr>
<td>Western Europe I. 3</td>
<td>Poetry 3</td>
<td>American</td>
</tr>
<tr>
<td>Chemistry I. 5</td>
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<td>Psychology II. 3</td>
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| West. Europe III. 3 | Psychology III. 3        | Sociology III. 3  |
| Chemistry III. 5    | Government and Politics III. 3 | American         |
| Greek, German or    | Biology III. or           | History III. 3    |
| French 5 or 3       | Physics VI. 3 or 4        | Municipal         |
| Elective 1 or 2     | Poetics 3                 | Gov't. III. 3     |
|                     | Elective 3 or 2           | Lit'ry. Criticism 3|
|                     |                           | Economics I. 5    |
| Latin 5             |                           | Economics II. 5   |
| Plane Trigonometry  | Latin 5                   | Ethics 5          |
| 5                  | Greek, German or          | Elective 3        |
| Greek, German or    | French 3 or 5             |                   |
| French 3 or 5       | Elective 7 or 5           |                   |
| Elective 2 or 0     |                           |                   |

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.

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.

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<th>FIRST YEAR</th>
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| German or French 3 or 5     | Biology II. or Physics V. 3 or 4 | osophy II. 3               |
| Elective                    | Elective 3 or 2              | Apostolic Age 5              |
|                             |                             | Elective 1                   |
| West. Europe III. 3         | Psychology III. 3            | Sociology III. 3             |
| Chemistry III. 5            | Government and Politics III. 3| American                     |
| German or French 3 or 5     | Biology III. or Physics VI. 3 or 4 | History III. 3           |
|                             | Economics I. 5               | Municipal Gov’t. and Functions or Probs. of |
|                             |                              | Philosophy 3 or 2            |
| German or French 5          | Economics II. 5              | Liter’y Criticism 2          |
| Plane                       | Elective 10                  | Elective 3 or 4              |
| Trigonometry 5              |                             |                              |
| Elective 5                  |                             |                              |

Grade Marks. Ex. (90-100), excellent; G. (80-90), good; Av. (75-80), average; P. (70-75), passing; Cn., conditioned; F., failure.

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

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

Graduation

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

DESCRIPTION OF COURSES

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

PROFESSOR CALDERHEAD.

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. Prerequisites: Preparatory Physics and Trigonometry II. Four hours. Fall quarter.

2. Field Astronomy. The subjects discussed in this course comprise the fundamental concepts and systems of coordinates, time systems, correction to coordinates, rough and approximate determinations, accurate determinations, and use of instruments such as the sextant, theodolite, chronometers, and zenith telescope. Prerequisite: Descriptive Astronomy. Two and one-half hours. Spring Quarter.

3. Practical Astronomy. This course is purely mathematical. The problems discussed are transformation of coordinates, parallax, refraction, dip of the horizon, angular measurements, determination of time and longitude, determination of azimuth procession, mutation, aberration. Prerequisites: Field Astronomy and Least Squares. Four hours. Summer Quarter.

4. Geodesy. Precise plane triangulation, base lines, leveling, astronomical work, spherical and spheroidal geodesy, geodetic coordinates and projections, geodetic triangulation, and the figure of the earth. Prerequisites: Field Astronomy and Least Squares. Two and one-half hours. Spring 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 beginning of Judaism. Five hours each. Two 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. Spring Quarter, 1917 and Fall Quarter, 1917.

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, 1917-18.

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

For other courses in English Bible see “Social Philosophy.”

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 I., II., III. Credit, three hours each. M. and W., 9:30-11:30; F., 9:30-10:30; or T. and Th., 1:00-3:00; F., 10:30-11:30. Fall, Winter and Spring quarters, respectively.

The above courses, constituting a year’s work, are introductory to further biological study and designed to acquaint
the student with the fundamental principles of the living organism. Course I. deals with some of the essential problems found in plant life. Such topics are treated: Cell structure, tissue differentiation, methods of reproduction, food manufacture, metabolism, decay, evolution. Course II. is given to the study of biological facts as evidenced in the animal kingdom. Course III. is a study of general physiological processes based upon the human body. Hygiene, sanitation and prevention of disease are given attention. Two hours lecture and discussion, three hours laboratory.

2. Zoology I., II., III. (Lower Invertebrates, Higher Invertebrates, Vertebrates). Credit, three hours each. T. and Th., 9:30-11:30; F., 9:30-10:30. Fall, Winter and Spring quarters, respectively.

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 in General Biology. Two hours lecture and discussion; three hours laboratory.

(Courses in Zoology are omitted in 1917-18.)

3. Botany I., II., III. Thallophytes, Bryophytes and Pteridophytes. Four hours each. M., W., F., 1:00-3:00. Fall Winter and Spring quarters, respectively.

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 in General Biology. Two hours lecture and discussion; four hours laboratory.

4. 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., III., or equivalent, and Geology I. Credit, four hours. Summer quarter, (Omitted in 1917.)

5. 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 con-
ditions. Lectures upon structure, classification, uses, and distribution. Schaffner's Field Manual of Trees is used as a key. Spring quarter. Credit, three hours. Thursdays or Saturdays, 7:00-11:30.

6. 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. Hours to be arranged.

Chemistry

PROFESSOR SLEESMAN AND ASSISTANT.

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

2. General Inorganic Chemistry II. and III. (Non-Metals, Metals). These courses offer a thorough study of the non-metallic and metallic elements and their several combinations. Prerequisites: General Chemistry I. and Preparatory Algebra I. Three hours lecture and discussion; four hours laboratory. Credit, five hours each. Every quarter.

3. Qualitative Analysis I. and II. Prerequisites: General Chemistry I., II., III. Credit, five hours each.

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

6. 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
PROFESSOR LOUTHIAN.

1. Principles of Economics I., II. 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 quarters, 1:00 p. m.

2. Fundamentals of Economics for Special and Professional Students. Five hours. Spring quarter, 1:00 p. m.

3. Fundamentals of Economics for Teachers. Intended to meet special needs of students in the College of Education. Five hours. Summer quarter, 1:00 p. m.

English
PROFESSOR FREEMAN.

8. College Rhetoric I. Description and Narrations.
Daily Themes. Three hours. M., W., F. Fall and Spring quarters. Text, Scott and Denny's Paragraph Writing.


11. The Short Story. A study of the technique of the short story; reports on required readings; some practice in story writing. Three hours. M., W., F. Fall quarter. Text, Essenwein's Writing the Short Story. Prerequisite: Course 9.

12. Expository Writing. Two hours. T., Th. Fall and Winter quarters. Prerequisites: Courses 8 and 9.

13. Survey of English Literature. Two quarters: (a) Poetry; (b) Prose. Three hours. M., W., F. Fall and Winter quarters.


15. Shakespeare. Three quarters: (a) Histories; (b) Tragedies; (c) Comedies. Three hours. M., W., F. Prerequisites: Courses 8, 9, and 13.


17. Nineteenth Century Poetry. Three quarters: (a) A survey of Wordsworth, Scott, Byron, Arnold, Morris, Swinburne and Rossetta; (b) A study of Tennyson; (c) A study of Browning. Prerequisites: Courses 8, 9 and 13.


20. Literary Criticism. A study of the principles of
literary criticism as applied to the various forms of literary expression.


Geological Science
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. M., W., F., 8:30. 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. M., W., F., 8:30. Winter quarter and Summer quarter, 1917.

Greek and Hebrew
PROFESSOR SCHOONOVER.

I. Preparatory Courses.

1. Beginning Greek I., II., III. (White's First Greek Book). Credit, five hours each. Three quarters.

2. Xenophon's Anabasis and Prose Composition I., II. Credit, five hours each. Two quarters.

II. Advanced Courses.

1. Epic Poetry. Homer's Iliad, two quarters, or Odyssey, one quarter. Credit, five hours each quarter.


3. Drama. Aeschylus' Prometheus Bound, Sophocles' Antigone, or Euripides' Medea.

4. History....Selections from Herodotus, selections from
Thucydides, or Xenophon's Hellenca.

5. Philosophy. Plato's Apology and Crito or Phaedo, or Aristotle's Ethics.

6. Oratory. Demosthenes' De Corona, Lysias' Orations, or Isocrates' Panegyricus.


Each work mentioned in course 2-7 inclusive, is pursued one quarter, with a credit of five hours. A literary study of the period is a part of each course.


History

PROFESSOR WALTERMIRE.

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 and special reports.

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. Part III. will be offered in Summer quarter of 1917, and Part I. in Summer quarter of 1918. 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. Part III. will be offered in Summer quarter of 1917, and Part I. in Summer quarter of 1918. This course is also recommended as a supplement to the outline course in American History. Credit, three hours for each of the three quarters. Open to all students.

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., II.** 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. Part III. will be offered in Summer of 1917, and Part I. in Summer of 1918. 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 1917. 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. Necessary class-adjustments partly determine the order in which these courses are pursued. Credit, five hours each.

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 CALDERHEAD, MILLER AND ASSISTANT.

8. 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. Four hours.

9. 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. Four hours.


11. Trigonometry I. (Plane). 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. Five hours.

12. Trigonometry II. This course gives attention to the solution of trigonometric identities, the solution of trigonometric equations, and the theory and solutions of spherical triangles. Two and one-half hours.

13. Analytic Geometry I. The properties of the straight line referred to Cartesian and polar coordinates, loci, equations, and tangents to the circle, the parabola, the ellipse and the hyperbola. Prerequisite: Trigonometry I. Four hours. Fall and Spring quarters.

14. Analytical Geometry II. A study of the conic sections, poles and polars, higher plane curves, solid geometry embracing the plane and quadric surfaces. Four hours. Winter and Spring quarters.

15. Calculus I. (Differential). Functions: their differ-
entiation, expansion, maxima and minima, together with indeterminate forms. Prerequisite: Analytic Geometry I. Four hours. Winter quarter.

16. Calculus II. A study of the points of inflexion, curvature, evolutes and involutes, change of the independent variable, functions of two or more variables, and the simpler forms of integration. Four hours. Winter quarter.


18. Differential Equations. Equations of first and second orders; linear, with constant and with variable coefficients; hypergeometric series; equations involving more than two variables; partial differential equations of the first and higher order. Five hours. Spring quarter.

19. Analytic Mechanics I: A study of concurrent and non-concurrent forces, centroids of areas, couples, moments of inertia, flexible cords, and motion in a straight line. Prerequisite: Calculus III. Five hours. Winter quarter.

20. Analytic Mechanics II. Motion, curvilinear and rotary; work and energy; friction; dynamics of rigid bodies, and impact. Five hours. Spring quarter.


22. History of Mathematics. Mathematics of antiquity, the middle ages, the awakening of Modern Europe, the origin of modern Geometry, Mathematics of recent times and history of applied Mathematics. Prerequisite: Calculus III. Four hours. Summer quarter.

Modern Languages

PROFESSOR GROTH AND ASSISTANT.

Preparatory Courses in German.

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

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

Advanced Courses in German

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

Preparatory Courses in French.

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

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

Advanced Courses in French.


Preparatory Courses in Spanish.


8. Spanish IV., V. Grammar, composition, conversation, reading of best Spanish authors.

Advanced Courses in Spanish.


Italian.


Philosophy

1. Logic. Elements from the text-book. Practical training in detecting the more common fallacies and in illus-
trating 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. Problems of Religion. In response to a growing demand for a course both practical and philosophical, the course in the Problems of Religion is offered. The work will consist of class discussions, assigned readings and reports on such problems as the origins of religion and religions, the psychological phases of religion, such as prayer, faith and conversion, together with such philosophical questions as creation, miracles, immortality and the problem of evil. This course will alternate with the History of Philosophy I. and II. Three hours. Fall and Winter quarters.

9. 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. Summer quarter. —Professor Trainum.

Physics

PROFESSOR BERGER AND ASSISTANT.

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

2. Physics VIII. A course in the "Teaching of Physics." Prerequisites: Preparatory Physics. Credit, five hours.

3. Physics IX., X., XI. The courses are for all except Engineering students. They meet the premedical requirements. Prerequisites: Preparatory Physics; Physics IX. is prerequisite for X. and XI. Class, three hours, laboratory, two hours. Credit, four hours.
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 6 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. Comparative 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. M. W. F., 10:30.

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. M., W., F., 9:30.

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. T., Th., 9:30.

4. History of Political Theories and 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. M., W., F., 9:30.

5. International Law 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. T., Th., 9:30.

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. T., Th., 10:30.

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, 1918.

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

Social Philosophy
PROFESSOR TRAUNUM

1—2. 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. Courses 1-2 are prerequisite to other courses in sociology, and are required for B. A. and B. S. degrees. Three hours each. Fall and Winter quarters.

3. 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 quarter, 1917.

4. 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 classroom 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, 1917.

5. The Social Message of the Old Testament Prophets. The prophets will be studied as Social and Political Reformers with a strong religious background. An attempt will be made to answer the question, did they bring to the people of their times, ideals and principles to be used in the solution of their own problems, which are equally useful to us in the solution of our social and political problems. Credit will be given either for Bible or advanced Sociology. Five hours. Summer quarter, 1918.

Partial List of Electives

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

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

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

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

Oratory. Oratory, 10 hours.

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

FACULTY

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

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

WILLIAM HENRY TRAINUM, A. B. in Ed., A. M.,
Psychology and Sociology.

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

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

NELL SALT, A. B.,
English and History.

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

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

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

MARY HELEN LEY, B. F. A.,
Normal Course in Art.

Model School Teachers
(Summer Session)

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

MARY GAREISSEN,
Intermediate Methods.

ANNA MARIE VAUGHN,
Primary Methods.

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

ESTHER PATRICK,
Domestic Science.
Professional Training

The changing conceptions of education and the increasing demands for greater efficiency in teaching make special preparation for the work imperative. In recognition of this fact the School Laws of Ohio prescribe that "Applicants for a one-year or a three-year elementary certificate who have taught in the public schools for one school year previous to the time of such application, unless said applicant is a graduate of a college or university of approved educational standing, shall possess an amount of professional training consisting of class-room 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 law also requires special training in observation and practice teaching, and the sections prescribing professional and academic requirements of applicants for high school and special certificates have not been repealed. But whatever the legal requirements in any state, all boards of education and boards of examiners give preference to teachers who have made special preparation for their work.

In keeping with the spirit of the times and the requirements of advanced legislation, the Ohio Northern University, for more than forty years engaged in the training of teachers, has enlarged and increased the facilities of the Department of Education. 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" without 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 equiva-
lent.” 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>
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<tbody>
<tr>
<td>English 3</td>
<td>English 3</td>
<td>General Methods 3</td>
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<td>Sociology 3</td>
<td>Hist. of Edu. 3</td>
</tr>
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<td>Biology 3</td>
<td>Secondary Edu. 3</td>
<td>Sch. Adm’n. 2</td>
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<tr>
<td>*Elective 6</td>
<td>*Elective 6</td>
<td>Teach. or Elect’e 3</td>
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<tr>
<td></td>
<td></td>
<td>*Elective 4 or 5</td>
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| English 3 | English 3 | Special Meth. 3 |
| Psychology 3 | Sociology 3 | Hist. Education 3 |
| Biology 3 | Secondary Edu. 3 | Sch. Adm’n. 2 |
| Elective 6 | Elective 6 | Teach. or Elect’e 3 |
|            |            | Elective 4 or 5 |

| English 3 | English 3 | Edu. Hygiene 5 |
| Psychology 3 | Sociology 3 | Hist. Education 3 |
| Biology 3 | Secondary Edu. 3 | Sch. Adm’n. 2 |
| Elective 6 | Elective 6 | Teach. or Elect’e 3 |
|            |            | Elective 2 |

| Drawing 3 | Psychology 5 | Ethics 5 |
| Psychology 3 | School Law 2 | Bible 5 |
| Elective 9 | Observation 3 | Elective 5 |
|            | 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.
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>
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</thead>
<tbody>
<tr>
<td>Educational Psychology 2</td>
<td>Principles of Teaching 3</td>
</tr>
<tr>
<td>Geography and Methods 5</td>
<td>General Methods 2</td>
</tr>
<tr>
<td>Public School Music 5</td>
<td>History of Education 3</td>
</tr>
<tr>
<td>Drawing 3</td>
<td>School Organization 2</td>
</tr>
<tr>
<td>Educational Psychology 2</td>
<td>Observation or Practice Teach.</td>
</tr>
<tr>
<td>Arithmetic and Methods 5</td>
<td>3</td>
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<tr>
<td>Grammar and Methods 5</td>
<td>Elective 2</td>
</tr>
<tr>
<td>Reading and Methods 5</td>
<td></td>
</tr>
<tr>
<td>Educational Psychology 2</td>
<td>Principles of Teaching 3</td>
</tr>
<tr>
<td>History and Methods 5</td>
<td>General Methods 2</td>
</tr>
<tr>
<td>Agriculture and Methods 5</td>
<td>History of Education 3</td>
</tr>
<tr>
<td>Educational Hygiene 5</td>
<td>School Organization 2</td>
</tr>
<tr>
<td></td>
<td>Observation or Practice Teach.</td>
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<td></td>
<td>3</td>
</tr>
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<td></td>
<td>Elective 2</td>
</tr>
</tbody>
</table>

**DESCRIPTION OF COURSES**

**Educational Psychology**

Six Credit Hours. Three Quarters.

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

Advanced. The prescribed readings in this course are based upon the works of Thorndike, Judd and Starch. The texts used are those of Colvin and Freeman.

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 Trainum.

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. (Bagley). (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. (Dutton and Snedden). (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.)

—Dr. Davison.

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.) Text, McMurry. —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 final working bases. The dogmatical is not attempted, but a rational viewpoint 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.) Text, Monroe. —Dr. Davison.

Methods of Teaching

General. (Elementary). A careful study of the value of method in educative process. 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. Three credit hours.
(M., W., F.) ---Dr. Davison.

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 ac-
quaintance 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 pre-
paring 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. ---Dr. Davison.

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 ele-
mentary 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.

Physical Hygiene

Educational Hygiene. This course is based on the text of L. W. Raper, and is pursued by seniors taking the training of High School teachers. It includes health sociology, rural school health administration, medical school supervision, school sanitation, play and recreation, and the teaching of hygiene. Five credit hours. Winter and Spring quarters.

—Dr. Davison.

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, Drummond 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.

—Professor Wilson and Dr. Davison.

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 work of the Summer School is carefully organized and fully meets all the requirements of the State Department of Education. In addition to a special preparation for their work, all the instructors have had extensive and successful public school experience. Their ideal of service is friendly and sympathetic cooperation with students in helping to solve their immediate problems, personal experience with such leaders is the best part of any course of instruction.

For the summer of 1917, the work will be arranged to accommodate, first, those who wish to meet only the legal "six weeks" requirements; and, second, those who desire to complete a schedule leading to a diploma and a state certificate. The first mentioned class may enter either on June 5th. or July 9th. On the completion of the special schedule of ninety class hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit should register on June 5th and continue their work during the entire summer quarter.

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

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

For further particulars send for a Summer School Bulletin.
Ohio Northern Educational Society

The Ohio Northern Educational Association holds regular weekly meetings, at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education, who are urged to take part in the investigation and discussion of educational topics. The work of this association is one of the most interesting and valuable features of the course in education.

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 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.

NELL SALT, A. B.,
English and History.

ELLEN KATHRYN ROTHROCK,
Algebra, Geometry.

HARRY RICHARD TAUBKIN,
Physiology, Botany.

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

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

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

Preparatory to Collegiate Courses for A. B. Degree

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<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>Preparatory</td>
<td>&quot;Physics 3&quot;</td>
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<td>Algebra 1</td>
<td>Rhetoric 1</td>
<td>Ancient History</td>
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<tr>
<td>Beginning Latin 1.</td>
<td>Plane Geometry 2</td>
<td>Cicero 3 and</td>
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<tr>
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<td>Caesar 2</td>
<td>Virgil 1</td>
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<td>Preparatory</td>
<td>English Lit. 2</td>
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<tr>
<td>Algebra 2</td>
<td>Rhetoric 2</td>
<td>Med. and Mod.</td>
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<td>Beginning Latin 2</td>
<td>Plane Geometry 3</td>
<td>Hist. 1</td>
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<td>Greek 1 or German 1 or French 1</td>
<td>Virgil 2</td>
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<td>Med. and Mod.</td>
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<td>Caesar 1</td>
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<td>Hist. 2</td>
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<td>Anabasis 1, or German 4 or French 4</td>
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<td>Physics 2</td>
<td>American Lit.</td>
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<td>Cicero 2</td>
<td>Virgil 3</td>
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<td>FIRST YEAR</td>
<td>SECOND YEAR</td>
<td>THIRD YEAR</td>
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<td>Caesar 1</td>
<td>German 3 or French</td>
<td>Solid Geometry or</td>
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<td>3 or Spanish 3</td>
<td>Civics</td>
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**DESCRIPTION OF COURSES**

**English**

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

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

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

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

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

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

7. English Literature III. (Long). This course includes (1) the history of English literature beginning with the Age of Romanticism; and (2) the study of the following classics: Carlyle's Essay on Burns; or Macaulay's Life of Samuel Johnson; Burke's Speech for Conciliation, or Washington's Farewell Address and Webster's First Bunker Hill Address: Shakespeare's Macbeth or Hamlet; Milton's Comus, L'Allegro, II 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 1917.

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 1917.

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

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 equiva-
lent) and prose composition. Five hours a week. Two quarters. Emphasis is laid on prose composition as a means of acquiring a working knowledge of Latin syntax. Walker's, or any quantity-marked text, is used. Mitchell's *The Art of Writing Latin*.

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


**Greek**


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

**German**

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

2. German II. Continuation of course 1.

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

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

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

**French**

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

2. French II. Continuation of course I.

3. French III. Reading, grammar and exercises.

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

5. French V. Study of French classics, conversational praxis.
DEPARTMENT OF

HOME ECONOMICS

ANNOUNCEMENT

Beginning with the Summer Quarter 1917 regular courses in Home Economics will be given.

The subjects of domestic science and domestic art will be included in the work offered.

We have built, furnished and equipped a new Laboratory for this department.

A special bulletin will be issued in April, 1917.
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.

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

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

KARL BOYER MacEACHRON, E. E.,
Electrical Engineering.

JAMES ALEXANDER CALDERHEAD, B. S., C. E., A. M.,
Higher Mathematics.

ELLEN KATHRYN ROTHROCK, A. B.,
Mathematics

LENIX CRAIG SLEESMAN, Pharm. C.,
Chemistry.

FRANK LEWIS BERGER, A. B.,
Physics.

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

-----------------------------
Metallurgy.

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

CHILDE HAROLD FREEMAN, B. S.,
English.

JAY PAUL TAGGART, LL. B.,
Contracts.

WILLIAM MCKENZIE DUTCH,
Assistant in Testing Laboratory.

HOWARD DAYTON HARVEY,
Assistant in Mathematics.

JOHN HAROLD HINE,
Assistant in Mathematics.
Aim

In maintaining this department, the Ohio Northern University provides a school where one can get the basal training needed in Engineering at the least possible expenditure of time and money. By omitting subjects not directly bearing on Engineering, the time required in other technical schools for completing the work leading to a degree is shortened in Ohio Northern to about two and a half years. An engineering degree is thus placed within the reach of thousands of young men whose circumstances will not permit them to spend the long period of four years in preparing for a vocation.

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

The value of the culture gained through the study of the "liberal arts and sciences" can not be overestimated, and to accommodate those desiring this culture in addition to the thorough technical training, the College of Liberal Arts with its excellent courses and 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. For prerequisites and description of courses see special bulletin. Preparatory work may be taken here, separately, or in connection with advanced work.

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

In view of the fact that each course is offered from two to four times a year and that numbers of classes are formed each quarter, students may enter at almost any time and find the work they desire. The best time to enter, however, is at the beginning of the quarter. See calendar.

Options

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

CIVIL ENGINEERING

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

Much time is devoted to the study of steel construction, during which the student is made familiar with the 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. Besides the undergraduate work, special and more elaborate study is arranged for those wishing to prepare for particular positions.

The teaching is done through class room exercises, field work, practical drawing and designing. The end in view is to fit men to act as county and city engineers, surveyors, railroad engineers, bridge engineers, structural engineers, hydraulic engineers, and government geodetic engineers.

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, pro-
tractors, stereotomy and descriptive geometry models, a col-
lection of photographs and shop drawings of bridges and
buildings, a well equipped laboratory, a large modern draught-
ing 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, donation
and construction by students of the college.

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OPTIONS

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

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

ELECTRICAL ENGINEERING

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

The first half of the prescribed study is, in the main, the same as that in the Civil and Mechanical Engineering 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 voltimeters, 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.

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NINTH QUARTER
Electric Machinery VIII ........... 4  
Electric Machinery IX ............ 4  
Masonry ................................ 4  
Electric Railways ................. 3  
Hydraulic Laboratory .............. 3  
Seminar ................................ 1  

TENTH QUARTER
Advanced Alternating Curr'ts... 5  
Electrical Transmission ........ 4  
Illuminating Engineering ...... 4  
Est. and Contracts .............. 2  
Seminar ................................ 1  
THESIS

OPTIONS
Descriptive Geometry II., 4; Electric Meters, 4; Storage Batteries, 4; Telephone Engineering, 4; Metallurgy, 2 1/2; Railroad Engineering, 5; Gas Engines, 5; Adv. A. C. Lab., 2 1/2; Differential Equations, 4; Adv. Eng. or Adv. German or other modern languages, 8.

Note—200 hours are required for graduation.
Note—Two hours laboratory work constitutes one credit hour.
Maximum number of hours per week—22.
Minimum number of hours per week—15.

MECHANICAL ENGINEERING

Mechanical Engineering deals with the transformation and transmission of energy, and with the theory and construction of mechanism and machinery. The 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, etc., is open to the students for inspection and test.
### Schedule

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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus III</td>
<td>5</td>
<td>Steam Power Plants</td>
<td>4</td>
</tr>
<tr>
<td>Electrical Machinery III</td>
<td>4</td>
<td>Mill Buildings</td>
<td>3</td>
</tr>
<tr>
<td>Analytical Mechanics</td>
<td>5</td>
<td>Scientific Management</td>
<td>4</td>
</tr>
<tr>
<td>Descriptive Geometry II</td>
<td>4</td>
<td>Hydraulic Laboratory</td>
<td>2½</td>
</tr>
<tr>
<td>Physics V</td>
<td>4</td>
<td>Estimates and Contracts</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

### THESIS

**OPTIONS**

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

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

**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 Engin-
eering, and additional work is given in topographical surveying, water supply, sewer design, sewage disposal, roads and pavements and precise surveying.

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.

The increasing demand for this grade of engineers has made it one of the leading courses in all scientific schools.

**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>
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<tr>
<td><strong>SECOND QUARTER</strong></td>
<td></td>
</tr>
<tr>
<td>College Algebra II</td>
<td>4</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>2¾</td>
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<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>
<tr>
<td><strong>THIRD QUARTER</strong></td>
<td></td>
</tr>
<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>Chemistry VI</td>
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<tr>
<td><strong>FOURTH QUARTER</strong></td>
<td></td>
</tr>
<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>
<tr>
<td><strong>FIFTH QUARTER</strong></td>
<td></td>
</tr>
<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>5</td>
</tr>
<tr>
<td>Municipal Engineering</td>
<td>5</td>
</tr>
<tr>
<td>Physics V</td>
<td>5</td>
</tr>
<tr>
<td><strong>SIXTH QUARTER</strong></td>
<td>Hours</td>
</tr>
<tr>
<td>Water Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Mechanics of Materials I</td>
<td>5</td>
</tr>
<tr>
<td>Highway Engineering</td>
<td>2¾</td>
</tr>
<tr>
<td>Railroad Surveying</td>
<td>5</td>
</tr>
<tr>
<td>Physics VI</td>
<td>5</td>
</tr>
<tr>
<td><strong>SEVENTH QUARTER</strong></td>
<td></td>
</tr>
<tr>
<td>Masonry</td>
<td>4</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>
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<tr>
<td><strong>EIGHTH QUARTER</strong></td>
<td></td>
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<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 Transmission</td>
<td>4</td>
</tr>
<tr>
<td>Sewerage Disposal</td>
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</tr>
<tr>
<td>Sewerage Design</td>
<td>2¾</td>
</tr>
<tr>
<td><strong>NINTH QUARTER</strong></td>
<td></td>
</tr>
<tr>
<td>Water Supply</td>
<td>4</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>Irrigation</td>
<td>2¾</td>
</tr>
<tr>
<td>Electric Railways</td>
<td>2¾</td>
</tr>
<tr>
<td><strong>TENTH QUARTER</strong></td>
<td></td>
</tr>
<tr>
<td>Municipal Management</td>
<td>4</td>
</tr>
<tr>
<td>Hydraulics II</td>
<td>4</td>
</tr>
<tr>
<td>Hydraulic Laboratory</td>
<td>2¾</td>
</tr>
<tr>
<td>Building Construction</td>
<td>4</td>
</tr>
<tr>
<td>Estimates and Contracts</td>
<td>2¾</td>
</tr>
<tr>
<td>Cement Testing</td>
<td>1</td>
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<tr>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td><strong>THESIS</strong></td>
<td></td>
</tr>
</tbody>
</table>
Note—200 hours are required for graduation.
Note—2 hours laboratory work constitutes 1 credit hour.
Maximum number of hours per week—23.
Minimum number of hours per week—15.

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>SIXTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Algebra I.</td>
<td>Mechanics of Materials II.</td>
</tr>
<tr>
<td>Trigonometry I.</td>
<td>Machine Design I.</td>
</tr>
<tr>
<td>Mechanical Drawing I.</td>
<td>Electric Machines II.</td>
</tr>
<tr>
<td>Chemistry II.</td>
<td>Organic Chemistry I.</td>
</tr>
<tr>
<td>Business English</td>
<td>Thermodynamics I.</td>
</tr>
<tr>
<td>Hours</td>
<td>Hours</td>
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<tr>
<td>4</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>SECOND QUARTER</th>
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</thead>
<tbody>
<tr>
<td>College Algebra II.</td>
<td>Mechanics of Materials II.</td>
</tr>
<tr>
<td>Trigonometry II</td>
<td>Mechanical Laboratory I.</td>
</tr>
<tr>
<td>Mechanical Drawing II.</td>
<td>General Metallurgy</td>
</tr>
<tr>
<td>Chemistry III.</td>
<td>Organic Chemistry II.</td>
</tr>
<tr>
<td>Analytical Geometry I.</td>
<td>Thermodynamics II.</td>
</tr>
<tr>
<td>Hours</td>
<td>Hours</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
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<table>
<thead>
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<th>THIRD QUARTER</th>
<th>EIGHTH QUARTER</th>
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</thead>
<tbody>
<tr>
<td>College Algebra III.</td>
<td>Graphics I.</td>
</tr>
<tr>
<td>Calculus I.</td>
<td>Steam Engines</td>
</tr>
<tr>
<td>Mechanical Drawing III.</td>
<td>Electric Machines V.</td>
</tr>
<tr>
<td>Analytical Geometry II.</td>
<td>Quantitative Analysis I.</td>
</tr>
<tr>
<td>Physics VI.</td>
<td>Electro Metallurgy</td>
</tr>
<tr>
<td>Hours</td>
<td>Hours</td>
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<tr>
<td>4</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>FOURTH QUARTER</th>
<th>NINTH QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus II.</td>
<td>Hydraulics I.</td>
</tr>
<tr>
<td>Descriptive Geometry I.</td>
<td>Economics</td>
</tr>
<tr>
<td>Elem. Elect. Engineering</td>
<td>Electric Laboratory I.</td>
</tr>
<tr>
<td>Qualitative Analysis I.</td>
<td>Special Chemistry</td>
</tr>
<tr>
<td>Physics IV.</td>
<td>Estimates and Contracts</td>
</tr>
<tr>
<td>Hours</td>
<td>Hours</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
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</table>

<table>
<thead>
<tr>
<th>FIFTH QUARTER</th>
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</thead>
<tbody>
<tr>
<td>Calculus III.</td>
<td>Hydraulics II.</td>
</tr>
<tr>
<td>Descriptive Geometry II.</td>
<td>Scientific Management</td>
</tr>
<tr>
<td>Electrical Machinery I.</td>
<td>Storage Batteries</td>
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<td>Qualitative Analysis II.</td>
<td>Industrial Chemistry</td>
</tr>
<tr>
<td>Physics V.</td>
<td>Seminar</td>
</tr>
<tr>
<td>Hours</td>
<td>Hours</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
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</tbody>
</table>

THESIS
Note—200 hours are required for graduation.  
Note—2 hours laboratory work constitutes 1 credit hour.  
Maximum number of hours per week—28.  
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**

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Hours</th>
<th>THIRD QUARTER</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra I</td>
<td>4</td>
<td>Algebra III</td>
<td>4</td>
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<tr>
<td>English Composition</td>
<td>5</td>
<td>Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Drawing I</td>
<td>4</td>
<td>Mechanical Drawing III</td>
<td>4</td>
</tr>
<tr>
<td>Geometry I</td>
<td>5</td>
<td>Descriptive Geometry I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Business English</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND QUARTER</th>
<th></th>
<th>FOURTH QUARTER</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra II</td>
<td>4</td>
<td>Algebra IV</td>
<td>4</td>
</tr>
<tr>
<td>Geometry II</td>
<td>5</td>
<td>Mechanism</td>
<td>4</td>
</tr>
<tr>
<td>Preparatory Rhetoric I</td>
<td>5</td>
<td>Descriptive Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Mechanical Drawing II</td>
<td>4</td>
<td>Graphic Statics</td>
<td>4</td>
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<tr>
<td>Physics I</td>
<td>4</td>
<td>Trigonometry I</td>
<td>5</td>
</tr>
</tbody>
</table>

**Theses**

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

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

The University is empowered to grant the customary scholastic degrees, 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 student carrying more than two subjects will be excused from the final examinations during the senior quarter.

Seminar

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

Student Technical Organizations

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

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

Expenses

See pages 31 and 33 of this bulletin.

Description of Courses

For description of courses and daily schedule of classes, see special Engineering Bulletin.
COLLEGE OF LAW  
FACULTY  
ALBERT EDWIN SMITH, D. D., Ph. D.,  
President  
JAY PAUL TAGGART, LL. B.,  
Dean.  
Professor of Law.  
JACOB SWART, A. M., LL. B.,  
Professor of Law.  
CARL ARMSTRONG, 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 students of limited means, to secure a collegiate training in law, and by connection with the University, to offer to them the added opportunity of obtaining the general education indispensable to the successful study and practice of law. With this in mind, tuition rates are made very reasonable, and every effort is put forth to accommodate the student of limited means, but earnest purpose.  
The courses are planned primarily to train students for the practice of law, but they may advantageously be pursued by anyone desiring to secure a knowledge of the principles and history of law, either as part of a liberal education, or
as part of the foundation of a business career, and special attention is given to the needs of such students.

In the training of students for the practice of law, the college has four chief aims:
(a) To give a thorough, systematic grounding in the history and fundamental principles of the law.
(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to examinations for admission to the bar.
(c) To impart a working knowledge of statute law and court practice and procedure, to the end that the young lawyer may intelligently and readily serve his clients.
(d) To inculcate the principles of legal ethics and of the lawyer's public responsibility to the end that the young lawyer may take his proper place as a leader in his community.

Equipment

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

Outline of Courses

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

**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>12. Criminal Procedure—3</td>
</tr>
</tbody>
</table>
Second Year

13. Suretyship—5
15. Private Corporations—6
16. Negotiable Instruments—5
17. Wills—5
19. Damages—3
20. Pleading I.—5
22. Real Property I.—5
23. Real Property II.—5
18. Administration of Estates—5
21. Pleading II.—5
24. Municipal Corporations—5

Third Year

26. Equity I.—5
27. Equity II.—5
28. Constitutional Law II.—5
30. Evidence—5
29. Constitutional
31. Quiz A—5
32. Quiz A—5
33. Quiz A—5
35. Quiz B—5
25. Brief Making and Use of Law Books—3
34. Quiz B—5

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

Method of Instruction

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

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

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

Moot Court

Moot Court, under the direct supervision of the faculty forms a regular part of the work, in which each student is
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, witness-
es examined, motions heard, and everything is made to con-
form as nearly as possible to the practice of the regular
courts.

Admission

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

At the beginning of the college year 1917-1918, the fol-
lowing rules as to the admission to the College will become
effective:

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

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

Preliminary to Bar Examination

The preliminary literary work required for admission to
the Bar examination may be taken in the University under
the regular law tuition, and a certificate showing the com-
pletion 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 stu-
dents who have completed the prescribed course of study.

After the beginning of the college year 1917-1918, the
following conditions as to graduation will be enforced:
Credit toward graduation will be given for not more than one year's study of law under the actual tuition of a reputable practicing attorney at law. Such study must be proved by the certificate of such attorney at law, not only as to the length of time spent in study, but as to the subjects studied, the text or case books which formed the basis of the study, and the quality of the work done by the student.

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

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

Students not candidates for a degree may select from the courses offered such work as they desire, with the approval of the dean, not to exceed a maximum of 20 credit hours per quarter.

The summer quarter is a full quarter of twelve weeks. Full courses in the College of Law are offered, under the instruction of members of the regular faculty, and full credit is given for work done in this quarter. This quarter offers an excellent opportunity for teachers, and others who are unable to be in attendance during the remainder of the year, as well as for regular students who wish to complete their course in less than three calendar years, or to make special preparation for bar examinations. Quiz classes, in preparation for such examinations, are formed regularly as part of the work of this quarter, and classes are formed in such of the other regular courses as may be necessary, to meet the demands of students.

Expenses

For expenses see pages 31 and 32 of this bulletin.
COLLEGE OF COMMERCE

FACULTY

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

STRAWDER ARTHUR RINGER, B. C. S.,
Dean.

Bookkeeping, Banking, Salesmanship, Finance, Business
Administration.

-------------------------------
Principal Bookkeeping Department.
Bookkeeping, Accounting, Assistant in Business
Administration.

EMMET ELIJAH LONG, B. C. S.,
Principal Penmanship Department.
Penmanship, Show Card Lettering, Commercial Arithmetic,
Rapid Calculation, Business Organization.

GEORGE WILLIAM SCHEID, B. Sten.,
Principal Stenography Department.
Stenography, Typewriting, Business English, Commercial
Correspondence, Secretarial, Instruction.

JACOB SWART, A. M., LL. B.,
Contracts, Negotiable Paper, Insurance.

CARL ARMSTRONG, LL. B.,
Commercial Law, Agency, Sales, Partnership.

WILLIAM H. TRAINUM, A. M., B. D.,
Psychology, Sociology.

LAWRENCE LEROY LOUTHIAN, A. M.,
Economics.

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

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

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

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

NELL SALT, A. B.,
English Composition.

HAZEL LIVINGSTON,
Assistant in Bookkeeping.

ALFA HOLMES,
Registrar.
Aim

The College of Commerce, while one of the oldest special departments of the University, is one of the newest and best in equipment and facilities for high grade instruction. 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 occupies the entire third floor of Lehr Memorial, 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, National cash register, multigraph, modern books of accounting, filing cabinets, guides, bulletins, and all other appliances to make the instruction as efficient as possible. The quarters are roomy, with abundance of light, ventilation and toilet conveniences.

The Courses of Study

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

Time Required

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending on previous educational preparation, aptness and application. The combined Business and Secretarial course requires approximately five quarters; the Commercial Teachers' Normal course, six quarters; the course in Business Administration, from nine to twelve quarters. No student is held back in his bookkeeping work
if he be able to progress more rapidly than the others of his class. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

Degrees and Diplomas

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

The cost of the Bachelor's diploma is $5.00; the graduate's diploma, $2.00; certificates, $1.00. Those desiring parchment will pay one dollar additional.

Special Students

Those not caring to pursue a prescribed course of study, if able to meet the requirements for either regular or special students, may be admitted as special students, at the discretion of the Dean and Advisory Committee. They will be given credit for whatever work is completed, and these credits may be applied on regular courses later, should they become candidates for graduation.

When to Enter

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the Combined course, and the Teachers' Normal course are repeated each term. Courses scheduled in the Business Administration curriculum are offered only in the quarters designated.

In the Summer quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue a course "piecemeal" until completed.

See calendar on the fourth page of the catalogue.
Situations for Students

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

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the College of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics. Frequent round-table discussions are held in connection with the required Seminar, where addresses and lectures by bankers, business men, professors and student members are delivered.

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, et cetera.

Teachers' Normal Commercial Training

The College of Commerce of the Ohio Northern University is fully accredited by the Department of Public Instruction in the State of Ohio.

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

Civil Service

Persons interested in taking Civil Service examinations along the lines of bookkeeping and accounting, stenography and typewriting will find our courses fit and proper preparation for same.
Short Bookkeeping Course

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

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
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<tbody>
<tr>
<td>Introductory Bookkeeping and Accounting</td>
<td>Practical Bookkeeping and Accounting (laboratory method)</td>
</tr>
<tr>
<td>Advanced Arithmetic</td>
<td>Commercial Arithmetic</td>
</tr>
<tr>
<td>English Composition or English Grammar</td>
<td>Business English</td>
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<tr>
<td>Rapid Calculation</td>
<td>Typewriting</td>
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<tr>
<td>Penmanship</td>
<td>Spelling</td>
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</tbody>
</table>

THIRD QUARTER

Office and Banking Practice (laboratory method)
Commercial Law
Typewriting and Manifolding
Salesmanship

Short Course in Stenography

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

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>SECOND QUARTER</th>
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<tbody>
<tr>
<td>Stenography I.</td>
<td>Stenography II.</td>
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<tr>
<td>Typewriting</td>
<td>Penmanship</td>
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<tr>
<td>English Composition or English Grammar</td>
<td>Business English</td>
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<tr>
<td>Spelling</td>
<td>Typewriting and Manifolding</td>
</tr>
</tbody>
</table>

THIRD QUARTER

Stenography III. (Office Practice)
Typewriting and Multigraphing
Penmanship
Commercial Correspondence
Commercial Law

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

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

FIRST QUARTER
Introductory Bookkeeping and Accounting
Advanced Arithmetic
English Composition or English Grammar
Penmanship
Rapid Calculation

SECOND QUARTER
Practical Bookkeeping and Accounting (actual business)
Commercial Arithmetic
Typewriting I.
Spelling
Commercial Law

THIRD QUARTER
Office Practice and Banking (laboratory method)
Stenography I.
Business English
Typewriting II.

FOURTH QUARTER
Stenography II.
Typewriting III.
Commercial Correspondence

FIFTH QUARTER
Stenography III. (office practice)
Secretarial Work
Typewriting and Manifolding
*Elective (to be assigned by instructor)

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

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

Commercial Teachers' Normal Course

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

FIRST YEAR
Educational Psychology I. 2
Introductory Bookkeeping 7½
Penmanship 2½
Rapid Calculation 1½
Business English 5

SECOND YEAR
Principles of Education I. 3
General Methods 2
Stenography I. 5
Typewriting I. 2½
School Organization I. 2
School Law 2
COLLEGE OF COMMERCE

Educational Psychology II. 2
Practical Bookkeeping and Accounting (actual business) 5
Commercial Arithmetic 5
Commercial Geography 5
Principles of Education II. 3
General Methods I. 2
Special Methods 7
Stenography II. 5
Typewriting II. 2 1/2
School Organization II. 2

Educational Psychology III. 2
Office and Banking Practice (laboratory method) 7 1/2
Commercial Law 5
Salesmanship 5
Practice Teaching or Observation 5
General Methods II. 2
Economics 5
Stenography III. 5
School Organization III. 2

One hour class-room exercise, five days the week, on work previously prepared, counts 5 credit hours.

One hour instruction on the laboratory plan, five days the week, counts 2 1/2 credit hours.

Length of class-exercise, fifty-five minutes.

Maximum number of hours permitted a week, twenty; minimum, fifteen.

Schedule in Business Administration

(Degree—Bachelor of Commercial Science. Prerequisite: Graduation from a first grade high school or its equivalent.)

This schedule goes into effect September, 1917.

First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
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<tbody>
<tr>
<td>Bookkeeping and Accounting I.</td>
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<tr>
<td>Business English</td>
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<tr>
<td>Rapid Calculation</td>
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<td>Spelling</td>
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<tr>
<td>Penmanship I.</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Bookkeeping and Accounting II. (business laboratory plan)</td>
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<tr>
<td>Commercial Correspondence</td>
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<tr>
<td>Commercial Arithmetic</td>
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<tr>
<td>Business Organization</td>
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<tr>
<td>Penmanship II.</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Office and Banking Practice (laboratory method)</td>
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<tr>
<td>Commercial Law</td>
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<tr>
<td>Typewriting (2 hrs.)</td>
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<tr>
<td>Physical Education</td>
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### Second Year

<table>
<thead>
<tr>
<th>Psychology I.</th>
<th>Psychology II.</th>
<th>Money and Banking</th>
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</thead>
<tbody>
<tr>
<td>Higher Accounting</td>
<td>Cost Accounting or Auditing</td>
<td>Finance II.</td>
</tr>
<tr>
<td>Law of Sales Contracts I.</td>
<td>Finance I.</td>
<td>Partnership</td>
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<td>Contracts II.</td>
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</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Sociology I.</th>
<th>Sociology II.</th>
<th>Salesmanship and Business Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation</td>
<td>Commercial</td>
<td>Agency Collections and Credits</td>
</tr>
<tr>
<td>Insurance</td>
<td>Geography</td>
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</tr>
<tr>
<td>Agricultural Commerce</td>
<td>History of Commerce</td>
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<td></td>
<td>Office Organization and Management</td>
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</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Economics I.</th>
<th>Economics II.</th>
<th>Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish I.</td>
<td>Spanish II.</td>
<td>Spanish III.</td>
</tr>
<tr>
<td>Industrial Management</td>
<td>Latin-American Trade</td>
<td>Advertising</td>
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<td>Seminar Thesis</td>
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</tbody>
</table>

185 term-hours, exclusive of physical education, required for graduation.

No degree granted unless one year of resident work is completed in the University in course.

Maximum number of hours a week, twenty; minimum, fifteen.

Partial List of Electives. Stenography, three quarters, for Spanish I., II., and III. American Government and Politics, I., II. and III., plus five hours of Public Speaking, for Spanish. Tuition for Public Speaking is extra. German or French, five quarters each, may be elected instead of Spanish. College Rhetoric I. and II. for Typewriting; English Grammar for English Composition. For other details, see special bulletin.

Subjects scheduled in Business Administration are taught only in the quarters designated.

**Description of Courses**

**Introductory Bookkeeping.** A thorough study of the principles underlying bookkeeping and accounting, with business practice (budget system). Class exercises and laboratory practice daily in the various processes involved, the use of the different books employed, and drills in drafts
and other business papers.

Practical Bookkeeping and Accounting (Actual Business): 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 carries on business transactions with his classmates, handles all forms of commercial papers and blanks, and uses daily the current market quotations; he deals with three banks and several offices and has practice in the various dealings of a business man with the bank; he does business as individual proprietor, with one partner, with two partners, with three partners, and completes the work as a corporation, requiring the changing from a partnership set of books to a corporation set. Prerequisite—Introductory Bookkeeping.

Office Practice. A continuation of actual business practice, by the laboratory method, in offices of various kinds, in which the blank books peculiar to each actual business house are used. Each office presents new features in accounting, and many forms of office appliances are used. The particular branches of business represented in this practice are Real Estate and Insurance, Stock Exchange, Commission, Freight, Wholesale and Retail, and Post Office. For a more detailed description, see special bulletin.

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

English Composition. Prerequisite to Business English for students not graduates of a high school or from equivalent courses of study, and for those deficient in preliminary English training. See Preparatory School.

Business English. A thorough course in practical business letter writing, including postal and general office information. Required in all curriculums.

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

Spelling. Experience has taught that poor spellers are legion, whether high school graduates, or just out of the grades, or from elsewhere. To meet this situation, regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

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

Commercial Arithmetic. Emphasis is placed on billing, percentage and its applications, interest and bank discounts, insurance, stocks, bonds, adjusting partnership accounts, averaging, and the solution of all kinds of problems met in the ordinary transaction of business. Thorough from beginning to end.

Rapid Calculation. Drill in speed and accuracy in figures. The student takes special work in this subject, which is correlated with Arithmetic, Bookkeeping and Accounting. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in large part mentally.

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

Business Organization. Organization and methods of conducting business; social and political conditions affecting business; advantages and disadvantages of individual proprietorships, partnership, and special study of the corporation.

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

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

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

Typewriting is required to be done in the Typewriting Department. Those taking typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $3.00 is charged.

The latest models of the Remington and Monarch are used.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject, limited to the provisions under "Electives" in the Business Administration course.

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

Penmanship and Lettering. The best systems of writing are used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movements, and pedagogically taught, developing a plain, rapid, and useful style of business writing.

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

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

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

Higher Accounting. This work consists of a number of sets giving advanced instruction in commission, real estate, banking, corporation, manufacturing, railroading and wholesaling. Duplicating devices, loose leaf and voucher accounting, applicable to all kinds of business are used. The use of the modern check register and the central office system in the manufacturing business are given attention. Prerequisite—A thorough knowledge of bookkeeping and accounting.

Auditing. The principles and process, with practice in the office, bank, and actual business departments of the College. Auditing may be elected by the class for Cost Accounting.

College of Law Subjects. Sales, contracts, partnership, agency. See College of Law.

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

Finance I. Discusses the various forms of money and credit used as funds, the means of transfer, how funds are obtained, and the leading agencies employed in funding operations.

Finance II. (Corporation Finance). A description of the procedure in financing corporations, raising money for construction purposes, distribution of corporate earnings, types of securities issued to obtain new funds, consolidation of corporations, receivership, reorganization of capital accounts of solvent and insolvent corporations.

Money and Banking. An extensive treatment covering the entire field of money, credit and banking, including functions of money, coinage history of the United States, relation and value of money to prices, forms of credit, functions of various kinds of banks, trust companies, foreign and federal reserve systems.

Transportation. A systematic treatment of the entire field of transportation.

Insurance. An analysis of the principles and practice of all forms of insurance.

Agricultural Commerce. The commercial phases of agricultural production and financing crops.

Commercial and Industrial Geography. A study of commercial conditions throughout the world resulting from physical and political influences; products; commercial interdependence. Considerable research in historical fields is required.

History of Commerce. A clear historical treatise of commerce through the Ancient, Medieval and Modern periods with special emphasis placed on industrial activities under the head of Recent Commerce of the leading nations of the world. Attention is given to each period in proportion
to its importance in industrial annals.

Office Organization and Management. A practical study of office appliances, employees, floor space, supervision, correspondence, filing, records, relations between the management and employees.

Salesmanship and Business Efficiency. A discussion of leadership, personality, character-building, efficiency, mental analysis, the law of sales, and selling methods.

Collections and Credits. A business-like handling of the details of the collection department of a business. Questions and problems of the debtor, systems, sources of needed information, and the usual and unusual methods of getting pay from the professional dead-beat.

Industrial Management. A scientific discussion on business management of industrial organizations; plant sites and locations; specialization, plant-equipment, lay-out, assembling, fire precaution, labor force, keeping track of materials, etc.


Marketing. A presentation from many angles of problems in distribution.

Advertising. A comprehensive work brimful of practice and help in planning and executing successful advertising. As a prerequisite, students are advised to take salesmanship.

Physical Education. See page 29 of this catalogue.

Seminar. Conferences and round-table discussions of current business topics.

Theses. Each graduate of the Business Administration curriculum 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 instructors or by the student himself if the instructor so directs. In the latter case the subject selected must be approved by the instructor before final adoption.

The preparation of all theses must begin at least twenty weeks before graduation, and the form of the finished thesis be in accordance with the requirements of the department. A minimum of twenty-five hundred words is required. Theses must be deposited with the instructor in charge at least two weeks before the conferring of the degree.
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.

For further information regarding tuition and fees of this department see Expenses, pages 31 and 32 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, Microscopy.

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

FRANK LEWIS BERGER, A. B.,
Physics.

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

HENRY WHITWORTH, A. B.,
Latin.

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

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 instruction and 350 hours individual laboratory work, and cover at least the work outlined in the "1913 Syllabus."

Advantages Offered Here

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

Practical and thorough courses are offered at the least expenditure of time and money. Equipment, courses offered and facilities for work unsurpassed.

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

Young women admitted on an equality with young men.

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

Laboratories.

The College has two Pharmaceutical and Dispensing laboratories 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 for 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 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. No fee.

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

Requirements for Admission

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

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

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

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, October 2, 1917, 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

Materia Medica ........................................... 220 clock hours, minimum
Chemistry .................................................. 260 clock hours, minimum
Pharmacy .................................................... 250 clock hours, minimum

Second Year

Materia Medica ........................................... 225 clock hours, minimum
Chemistry .................................................. 285 clock hours, minimum
Pharmacy .................................................... 215 clock hours, minimum

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, emetics, 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.

Posology 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, desiccation, 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

The completion of all work in the Junior year, including examinations, is prerequisite to admission to the courses of the Senior year. Those who have completed their Junior work in some other school must present credits properly certified by Secretary or Dean of that school.

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—Pharmaco 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 experimenta-
tion. 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.

MICROSCOPY. Direction in operating and caring for the instruments; instruction and practice in the processes of preparing, staining, mounting and preserving specimens. Plants and drugs are studied under the microscope, to train the student in detecting and identifying adulterations. Fee $6.00 per year.

Commercial. In this course the student is made acquainted with the business side of the drug business; book-keeping, 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.)

Expenses

For expenses, see pages 31 and 32 of this catalog.
Refunding

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

FACULTY

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

FRED KILLEEN,
Dean.
Voice.

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

ALETA ROSE BOWERS,
Voice, Piano and Theory.

GAIL WATSON
Violin.

PAULINE ABT,
Children’s Piano Department.
Musical History.

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

ALFA HOLMES
Registrar.

Aim

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

Equipment

The 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, well lighted, heated and ventilated and equipped with pianos of good make.

Lehr Auditorium, equipped with a grand piano and a new pipe organ, furnishes an excellent place for public recitals and concerts.
DEPARTMENTS AND COURSES

Voice

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 arias 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 Josefý, 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 throughout is not to adhere strictly to any one so-called "method"; the instructors, after careful study, have selected the best features in various methods, and offer to the students a course of training unexcelled in any conservatory.

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

Organ

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the 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.


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 Bowling Technique; Solos by Dancla, Sitt, Bohn, Seity, et cetera.

Intermediate Collegiate. Etudes of Blumenstengel, Mazas, Dott; Technique Preparatoire of Sevcik; 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; Technical Studies of Sevcik and Schraedick; Concertos of Bruch, Spohr, Mendelssohn and Mozart; Sonatas of Handel and Beethoven; Solos, Zigennerfelsen 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
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; Musical History, 3 quarters; Theory, 1 quarter; Ear-Training, 1 quarter; enough Piano to play accompaniments.

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

**Organ.** Harmony, 4 quarters; Counterpoint, 1 quarter; 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, 1 quarter; 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**

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 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 stu-
dies are required:

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

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

Recitals

Pupils' Recitals. Pupils' recitals are held at seven
o'clock every Tuesday evening to enable the student to gain
confidence and exhibit the progress he has made.

Faculty Recitals. At intervals the faculty of the Col-
lege of Music presents a program of such nature as to fur-
ther the education and standards of the students.

Artists' Recitals. By means of these recitals the pupils
come in contact with the great musical personalities and
hear the best music well performed.

Musical Organizations

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

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

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

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

Band. A splendid military band is maintained, afford-
ing an opportunity for practice to students playing a brass
or reed instrument.

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

The churches of the town welcome students to their choirs.

Rudiments and Sight Singing

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

TUITION

Voice, Piano, Organ or Violin, quarter of twelve weeks, two lessons a week................................................. $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

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

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

Scholarship

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

Graduation Fees

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

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

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.

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 AGRICULTURE

FACULTY

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

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

HARVEY EVERET 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 ninety 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>
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<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>English</td>
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<tr>
<td>Mathematics</td>
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<td>History</td>
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<tr>
<td>Science</td>
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and one of the following groups:

- A—Latin
- B—German
- C—French

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<tr>
<th>Group</th>
<th>Units</th>
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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 of Science in Agriculture*

**First Year**

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<tr>
<td>Winter</td>
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<tr>
<td>Spring</td>
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**Second Year**

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<tr>
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<td>Winter</td>
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<tr>
<th>Mechanical Draw'g.</th>
<th>Geology</th>
<th>Agronomy II</th>
<th>Agronomy III</th>
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<tr>
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<th>Cadet Service</th>
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Third Year

Botany I ..... 5 Botany II ..... 5 Botany III ..... 5
Dairy ..... 4 Animal Hus. V ..... 4 Horticulture ..... 4
Agronomy I ..... 5 Soil Fertility ..... 4 Bookkeeping ..... 5
Elective ..... 5 Elective ..... 5 Elective ..... 5

Fourth Year

Economics I ..... 5 Economics II ..... 5 Rural Economics ..... 5
Elective ..... 10 Elective ..... 10 Elective ..... 10

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

Two Year Course in Agriculture

To meet the demands of those who find it out of their power to undertake a four year's college course, but who, nevertheless, desire to increase their efficiency on the farm the college offers what is known as a two year course in Agriculture. Students may with advantage take only a part of the course if unable to remain for the whole time.

The course is in no wise supposed to serve as a substitute for the regular work of the college either in character or in scope of the subject-matter presented, and does not lead to a degree, a certificate only being granted. Its particular function is to give, in the shortest, most direct way possible, certain definite special information which will be of immediate value on the farm. A total of 100 hours is required for graduation.

OUTLINE OF TWO YEAR CURRICULUM
Diploma: Graduate in Agriculture

First Year

FALL QUARTER WINTER QUARTER SPRING QUARTER
Animal Husbandry I Animal Hus. II.
Mechanical Drawings I Chemistry II.
College Rhetoric I Commercial Law
Cadet Service Cadet Service

Second Year

FALL QUARTER WINTER QUARTER SPRING QUARTER
Agronomy I. Biology II. Agronomy IV.
Physics I. Soil Fertility Animal Hus. IV.
Agronomy II. Agronomy III. General Entomology
Dairy Fundamentals Animal Hus. V.
Bookkeeping Rural Economics

Special Winter Curriculum

This course is planned especially to meet the demands of young men on the farm who cannot find time to take the regular two or four year courses, or who have not met the necessary educational requirements. This fills the need of an agriculture course for the rural boy that will not take him away from the farm during the growing season. This
course is given during the winter quarter only, and is varied from year to year.

**OUTLINE OF SPECIAL WINTER CURRICULUM**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
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<tbody>
<tr>
<td>Animal Hus. I</td>
<td>Biology II. or phys.</td>
<td>Animal Hus. III</td>
</tr>
<tr>
<td>English Composition</td>
<td>Animal Hus. II</td>
<td>Animal Hus. V</td>
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<tr>
<td>Agriculture I.</td>
<td>Agronomy II.</td>
<td>Soil Fertility</td>
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<tr>
<td>Physics I.</td>
<td>Chemistry I.</td>
<td>Bookkeeping or Com.</td>
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<td>mercial Law</td>
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<td>Animal Hus. IV</td>
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**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 Standard bred blood are also maintained in Ada. The university library has upon its tables all the important current live stock literature, while the traveling library of the state supplies the institution with numerous volumes upon animal husbandry. Every available bulletin of the experiment stations of the various states and of the United States department of agriculture, including the year book of that department and the works of the Bureau of Animal Industry, may be found on the library shelves.

**Description of Courses in Animal Husbandry**

I. **Horses—Types, Breeds and Market Classes.** This course embraces 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.** Text-book 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. These 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 student 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

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.

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.

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. 5 hours. Two year course in agriculture.

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 the 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 agricultural production and the guiding principles in the organization of a farm, et cetera. 5 hours.

Bookkeeping. In this branch the student receives a thorough explanation and illustration of the fundamental principles of bookkeeping. He is carefully drilled in double entry bookkeeping, the forms of all classes of commercial paper, as notes, drafts, checks, bills of exchange, bank drafts, receipts, et cetera, and the law relative thereto. He is given thorough drill in journalizing, posting, making out business statements, trial balances, and the methods of closing the different kinds of ledger accounts. The practical farmer needs this individual business training no less than instruction in any purely technical subject.

Commercial Law. A course given in the Law Department, and one very beneficial to the student of agriculture. The successful farmer of the future must be well versed in business principles and legal rights and limitations.
General Botany. A course designed primarily to meet the needs of agricultural students.

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

Biology I., II. and III. Fall, winter and spring quarters. Credit three hours per quarter. A general course designed to acquaint the student with the fundamental principles of a living organism. These three courses constitute a years work.

Botany I., II. and III. Fall, winter and spring quarters. Credit 4 hours per quarter. These courses constitute a years work in General Botany. A careful study is made of typical types of plants from lowest to highest forms.

Entomology I., II. and III. Fall, winter and spring quarters. Credit 3 hours per quarter. A lecture and laboratory course given to the study of the structure of insects, their classification, and life histories. Special attention being given to the economic forms. Students will make a collection of one hundred insects, and identify them. Course runs throughout the year. Open to students who have had biology or zoology.


For further description of courses, see the respective departments in the preceding pages.

Expenses

See pages 31 and 32 of this catalogue.
SCHOOL OF FINE ARTS

FACULTY

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

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

General Remarks

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

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.

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.

Expenses

Fine Art, 1 branch, per quarter ......................... $12.00
Fine Art, 2 branches, per quarter ..................... 20.00
Fine Art, 3 branches, per quarter ..................... 25.00
Fine Art, 1 branch, per week ................................ 2.00
Freehand, per quarter .................................. 5.00
History of Art, per quarter .............................. 3.00
Perspective and Composition ............................ 3.00
Freehand and 1 branch, per quarter .................... 12.00
Normal Training, for Public School Art, per quarter.. 12.00
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 in Preaching and Teaching, School Management, Composition and Delivery of Orations, Forensic Oratory, Argumentation, Debate, Vocal Physiology, Correction of the Faults of Speech, Plot, Character Study and interpretation of Merchant of Venice, As You Like It and Hamlet, with preparation and presentation of scenes for criticism, Platform Programs, Normal Work, in all departments and 90 Private Lessons.

Foil and Saber Fencing—Major Deming has had spe-
cial 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 the profession, a rigorous course must be followed and those not suited for it will be so informed. For further information address the Dean.

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

Advanced Standing

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

Certificates and Diplomas

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

**EXPENSES**

**Tuition**

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

**Refunding**

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.
DEPARTMENT
OF 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.

General Orders No. 165, War Department, dated July
24th, 1907, provides as follows: "All rules and orders re-
lying 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 promul-
gated by the professor of military science and tactics, after
being approved by the chief administrative officer of the
institution."

The arms and equipments are issued by the Ordnance
Department of the United States Army. Swords and belts
are furnishd to the cadet officers. Target practice is held
with the sub-caliber rifle, caliber 22.

Organization
The Cadet Battalion at present 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 Commandant. The non-commissioned officers are ap-
pointed by the various company commanders, and after ex-
amination, as in the case of officers, appointed.

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 is required to drill and recite in this department three quarters and "go through contest."

Assignments of new students to companies are made by allotment as the names come to the registrar's roll in the office of the University. In order to secure some credit on the records of the University, the cadet is required to be regular in attendance, to be subject to all military discipline, to drill not less than one hundred and fifty hours, and to win a grade of at least 85 per cent.

Instruction

The cadets are drilled each year in the 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 practice at the drill hour every day, and it 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.

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.

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.

Uniform

Khaki breeches, olive-drab flannel shirts, canvas leggings, campaign hat, hat cord and hat ornament. This uniform has proved 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.
ATHLETIC DEPARTMENT


ROLAND BEVAN, Assistant Coach, Basket Ball, Baseball, Track, Physical Director of Men.

GRACE REEDER, Physical Director of Women.

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

Athletic Coaching Courses

MR. BEVAN

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

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

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

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

Physical Training for Men

MR. BEVAN.

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

I. Exercises. Floor drills; calisthenics, wands; dumbbells; Indian clubs; chinning apparatus and horizontal bar work; jumping and vaulting; medicine ball drills.
II. Advanced Gym. (Elective). Parallel bars; horizontal bar; Milo adjustable bar bed; boxing, wrestling and tumbling.

Physical Training for Women
MISS REEDER.

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

Fee for Physical Training $1.00 per quarter.
## DEGREES CONFERRED IN 1916

Burton, William R. (M. A.) Bluffton, O.
Eicher, Hubert Clark (M. S.) Harrisburg, Pa.
Getty, George Franklin (D. C. S.) Los Angeles, Calif.

### IN COURSE

#### COLLEGE OF LIBERAL ARTS

**Bachelor of Arts.**

Cromer, Luther Vincent Springfield, O.
Huber, Claire M. Ada, O.

**Bachelor of Science**

Anselment, Mayetta Caledonia, O.
Buchele, Irving Ada, O.
Hyde, Edward Warren, O.
Rowe, Fred I. Fortoria, O.

**Graduate in English**

Ewing, Helen Ada, O.

#### COLLEGE OF EDUCATION

**Bachelor of Science in Education.**

Bailey, Harold Durbin Defiance, O.
Crafts, Helen Ada, O.
Rowand, E. M. Belleville, O.

**Graduate in Pedagogy**

Dobbins, Neta Beth Ada, O.
Evans, Nelle Elida, O.
Fulks, Ruth Augusta Ada, O.
Harkness, Cora Luck, Wis.

#### COLLEGE OF ENGINEERING

**Civil Engineering**

Estrada, Manuel D. Havana, Cuba
Gardner, Loyde H. McLean, Ill.

**Bachelor of Science in Civil Engineering**

Allen, Albert R. Copenhagen, N. Y.
Avila, Edgard S. Rio de Janeiro, Brazil
Boyle, Earl Francis Gouverneur, N. Y.
Brewer, Pinckney P. Chillicothe, O.
Bloise, Jose Guaymall, P. R.
Clevenger, Bruce John Spencer, W. Va.
Campbell, Ivor St. Clair Arlington, N. J.

Elhin, Guy Herbert Clearville, Pa.
Evans, Otis S. Boonville, N. Y.
Gertler, David B. Brazil
Hayden, John E. Athol, Mass
Linder, G. Earl Sharon, Pa.
Larson, Theodore Brooklyn, N. Y.
Marshall, Craig Wilkins Omaha, Nebr.
Penny, Frank C. Westport, Conn.
Plant, Arthur Fletcher Newark, N. J.
Richardson, Graham O. Indianapolis, Ind.
Robinson, Wm. D. Mexico City, Mex.
Rothermund, Theodore. Martins Ferry, O.
Silva, Jorge R. Brazil
Smith, Robert Lee Sidney, O.

Shannon, D. G. Carthage, N. Y.
Schauwecker, Harry C. Nevada, O.
Thevenet, Edward H. Newark, N. J.
Tavares, Jayne Brazil
Yim, Sung Jow San Francisco, Cal.

Electrical Engineering

Evans, Frank Woodward Ada, O.

Bachelor of Science in

Amarel, J. P. Boa Vista Paulo, Brazil
Andrade, Raul R. Brazil
Azevedo, Francisco J. Brazil
Brockman, Carl Fremont, O.
Barnette, F. G. Toledo, O.
Castro, Newton de Sao Paulo, Brazil
Dawson, Wm. J. Bath, N. Y.
Decker, Guy P. Youngstown, O.
Deibel, Martin J. Doylestown, O.
Evans, William Thomas Gienfield, N. Y.
Foltz, Andrew Ada, O.
Gilbert, Herschel R. Greenville, O.
Goldberg, David C. Hartford, Conn.

Electrical Engineering

Hurst, Howard A. Dorset, O.
Iden, R. D. Harpster, O.
McAllister, George M. Cleveland, O.
McKee, Roscoe Clyde Hamler, O.
Nordstrom, Frithiol Canton, O.
Pratt, Stephen O. Little Valley, N. Y.
Riggan, Walter L. Pt. Norris, N. J.
Rothenberger, Geo. M. Spring Valley, Ill.
Slater, C. C. Mill Run, Pa.
Steinke, Herbert W. Milwaukee, Wis.

Mechanical Engineering

Judson, Harry Rio Plymouth, O.

Bachelor of Science in

Alden, Carroll Russell Marietta, O.
Hazen, Stuart Daniel Painesville, O.

Mechanical Engineering

Miller, David R. Michigan City, Ind.
Walter, Carloss H. Cherry Creek, N. Y.

Bachelor of Science in Architectural Engineering

Given, Richard M. Ada, O.

Structural Drafting Certificates

Thatcher, Harold W. Bellefontaine, O.

Wright, Lauren R. Girard, Pa.

College of Pharmacy

Ayers, Rall M. Mendon, O.
Anderson, Walter Sylvester Portsmouth, O.
Burt, Chester B. Cuyahoga Falls, O.
Bloomberg, Oscar Roseburg, Ore.
Clark, Raymond D. Ft. Wayne, Ind.
Cain, Earl B. Adamston, W. Va.
Droz, Charles Albert Ambridge, Pa.
Dunajtsik, John Mansfield, O.

Elrod, Philip Elton Williamsburg, O.
Frohnapfel, George D. Ft. Wayne, Ind.
Galvez, Gabino C. Manasas, Cuba
Hartford, David Garvin E. Palestine, O.
Hallisy, Wm. C. Xenia, O.
Jackson, Wynne L. Rochester, N. Y.
Lewis, Fred Collin Salineville, O.
Leslie, Clifford W. Convoy, O.
Neil, Clarence F. .......... Ashtabula, O.
Pence, Harley Franklin .......... Dayton, O.
Pence, Earl Lewis .......... Dayton, O.
Robinson, David Glenn .......... Ashland, O.
Ramos, Andres Calderin .......... Taguasco, Cuba
Ramos, Mrs. Enriqueta Gomez .......... Cabaiagan, Cuba
Runyon, Thomas Grier .......... Martins Ferry, O.

Shaw, George Lee .......... Hillsboro, O.
Shaff, Orville W .......... Salineville, O.
Sutherin, Homer Leslie .......... E. Palestine, O.
Shank, William Robert .......... Windham, O.
Tauffer, Raymond A .......... Mt. Vernon, O.
Wise, Charles Wesley .......... Moscow, O.
Wilch, Scott .......... Arlington, O.

**COLLEGE OF LAW**

Brown, John C .......... Steubenville, O.
Barger, Edwin S .......... Gallia, O.
Darby, Albert F .......... Ada, O.
Fackler, Clarence E .......... Richwood, O.
Godwin, Elmer L .......... Bellefontaine, O.
Moreland, A. W .......... Steubenville, O.
Malloy, Howard L .......... Massillon, O.
McElroy, Justin .......... Ada, O.
Ormsby, Robert .......... N. Jackson, O.
Payne, Charles E .......... Mancher, O.
Ramey, Homer A .......... Put-in-Bay, O.
Russell, Paul G .......... Newark, O.
Spilka, Harvey .......... Kenton, O.
Shetler, Curtis M .......... Beach City, O.

**COLLEGE OF COMMERCE**

Graduate of Commercial Science

Bennett, A. J .......... Hilton, N. Y.
Butler, Harry L .......... Jennings, Md.
Deakin, R. A .......... Turtle Creek, Pa.
Evard, Mildred .......... Ft. Wayne, Ind.
Fields, Ralph E .......... Ada, O.
Fritsch, J. Herman .......... Piqua, O.
Hensel, Cecile .......... Ada, O.
Hensel, Beatrice .......... Ada, O.
Heil, Albert A. J .......... New Bremen, O.
King, Leslie .......... Marion, O.
Steffani, M. J .......... W. Salem, O.
Taggart, Clair .......... Newcastle, Pa.
Wilcox, Claude J .......... McLean, Ill.

Bachelor of Stenography


**COLLEGE OF MUSIC**

Voice

Collins, Ethel M .......... Ada, O.
King, Bertha Mae .......... Ada, O.
MacDonald, R. Hudson .......... Chesterhill, O.
Wells, Zella .......... Quincy, O.

Piano

Abt, Pauline .......... Ada, O.
Ekleberry, Florence .......... Forest, O.
Phillips, Mary Clytie .......... Ada, O.
Pugh, Ethel .......... Ada, O.

Public School Music

Baily, Miriam .......... Table Grove, Ill.
McElroy, Ethel .......... Ada, O.

**COLLEGE OF AGRICULTURE**

Chandler, Horace Latham .......... Upper Sandusky, O.
**SCHOOL OF FINE ARTS**

Burnett, Elizabeth May...Forest, O.  
McGuassy, Lenty....McGuassy, O.  
Snow, Angie........Springfield, O.

**SCHOOL OF EXPRESSION**

Wilson, Irene Adeline...Forest, O.  
Vestal, May Wooley..........Ada, O.

**REGISTER OF UNDER-GRADUATES 1916**

**COLLEGE OF LIBERAL ARTS**

<table>
<thead>
<tr>
<th>Classical</th>
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</table>
| Abt, Pauline...........Hardin, O.  
Anes, Alma...............Hardin, O.  
Barlett, Thomas........Ontario, Canada  
Brodie, Ralph............Seneca, O.  
Cramer, C. E............Hardin, O.  
Castle, Ray...............Logan, O.  
Cox, LaVonne.............Hardin, O.  
Ely, George..............Hardin, O.  
Elliott, Lawrence........Westmoreland, Pa.  
Falkenstein, Clara......Erie, Pa.  
Folk, C. J..............Hardin, O.  
Freeman, Harold..........Hardin, O.  
Hobensack, Clarice.......Hardin, O.  
Kline, Joyce............Allen, O.  
Miller, Paul A...........Columbia, O.  
Mayer, Walter............Allen, O.  
McColm, F. W............Hardin, O.  
Markley, F. G...........Hardin, O.  
Mueller, Erna K..........Ontario, Canada  
Mottoe, Lloyd...........Shelby, O.  
Newcomb, Sylvia..........Hardin, O.  
Phillips, Luella..........Hardin, O.  
Phillips, Mary...........Hardin, O.  
Ridenour, Florence.......Lafayette, O.  
Smith, Guy L............Paulding, O.  
Shumaker, R. W........Randolph, Ind.  
Smith, Clarence J........Lorain, O.  
Spelman, Ruth...........Hardin, O.  
Smith, Beatrice..........Hardin, O.  
Smith, Harriett.........Hardin, O.  
Wiseman, Merrill.........Lawrence, O.  
Wen, Z. S..............China  
Walley, E. S............Hardin, O.  
Wintringham, C. E.........Shelby, O.  |

<table>
<thead>
<tr>
<th>Science</th>
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</thead>
</table>
| Ailes, Sidney........Shelby, O.  
Agin, Walter..........Hardin, O.  
Bennett, C. D........Auglaize, O.  
Bowman, E. E............Morgan, O.  
Beatty, Lowell D........Knox, O.  
Balmer, J. E............Allegeny, Pa.  
Bauman, Fred...........Bergen, N. J.  
Clifford, Elmer.........Lorain, O.  
Corbett, Iedd............Hardin, O.  
Cussans, Frank..........Hardin, O.  
Cunningham, J. T.........Hardin, O.  
Driscoll, W. A........Allen, O.  
Dailey, George B........Mahoning, O.  
Davis, Lehr.............Hardin, O.  
Dobbins, Raymond.......Hardin, O.  
Elsass, Fred............Shelby, O.  
Eicher, H. E............Fayette, Pa.  
Fidler, W. R...........Columbiana, O.  
Fidler, Truman..........Columbiana, O.  
Goodman, Ben T...........Senecas, O.  
Garside, Chas. C.........New Haven, Conn.  
Grimes, Adelaide.......Clark, O.  
Hurless, Dinet......Van Wert, O.  
Higgs, Howard........Tucker, W. Va.  
Harrod, J. K............Hardin, O.  
Hook, O. W.............Greene, O.  
Heifer, R. A............Allen, O.  
Harshman, Tallmadge....Hardin, O.  
Jameson, Laura..........Hardin, O.  
Johnson, Deane.........Wood, O.  
Katherman, J. L.........Miami, O.  
Leathers, C. E..........Van Wert, O.  
Leist, Jas. H...........Pickaway, O.  
Livingston, Ralph.......Wyandot, O.  
Longecker, Mildred.....Hardin, O.  
Monroe, C. Earl........Muskimgum, O.  
Mather, M. M............Summit, O.  
Mercer, Frank..........Hardin, O.  
Mertz, Gertrude.........Hardin, O.  
Owens, R. L............Madison, O.  
Nelson, Lorin........Wood, O.  
Pond, Omar..............Richland, O.  
Pugh, Roy M............Monroe, O.  
Pond, J. W..............Paulding, O.  
Porritt, Donald C........Oakland, Mich.  
Patrick, L. Poe.........Hardin, O.  
Pigossi, Dante.........Allegeny, Pa.  
Parsons, Elmer..........Beaver, Pa.  
Rice, D. R..............Hardin, O.  
Rawers, A. J............Mercer, O.  
Ridenour, Virgil.......Allen, O.  
Reed, E. H..............Guernsey, O.  
Ragner, Bernhard.......Allegeny, Pa. |
Ohio Northern University

College of Education

Ross, Myrtle Montrose, Col. Hancock, O.
Redick, Luce Somerset, Pa. Warren, O.
Sprang, Paul Hardin, O.
Shanklin, A. E. Hardin, O.
Shepherd, A. C. Belmont, O.
Stout, Alice Hardin, O.
Sink, Lottie Hardin, O.
Tracy, D. V. Knox, O.
Taylor, C. O. Champaigne, O.
Turner, R. W. Hardin, O.

Tracy, Fred W. Knox, O.
Vesper, Carl Mercer, O.
Vogt, N. E. Hardin, O.
Wolfe, F. Wade Mercer, O.
Woodward, R. C. Hardin, O.
Weaver, L. I. Hardin, O.
Williams, T. W. Darke, O.
Walley, Erzel Paulding, O.
Wright, Robert D. Hardin, O.

Cameron, Jos. A., Jr. Pike, O.
Clapper, Raymond Van Wert, O.
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Charville, Mabel Erie, O.
Colmery, Grace Morrow, O.
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Blair, Ethel Union, O.
Blackhurst, Mary Midland, Mich.
Beck, Abbie Columbus, O.
Bresler, Gladys Hardin, O.
Bardeleben, Ethel Hardin, O.
Champion, Coyne Richland, O.
Carey, D. M. Hardin, O.
Carr, Roy R. Mercer, O.
Close, L. C. Wayne, O.
Cole, Oral Hancock, O.
Chambers, Geo. Scioto, O.
Carpenter, Chas. M. Delaware, O.

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Daughenbaugh, Lewis Huntington, Pa.

Blair, Ethel Union, O.
Blackhurst, Mary Midland, Mich.
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IN COURSE

Smith, Mildred..................Richland, O.
Solomon, Hazel...............Hardin, O.
Stopher, Thelma..............Hardin, O.
Strohecker, Mary..............Lawrence, Pa.
Thompson, T. W..............Champaign, O.
Traxler, F. J................Wyandot, O.
Terry, Myrtle.................Hardin, O.
Taylor, Manelia..............Paulding, O.
Thatcher, Ruthie.............Allen, O.
Turner, Mrs. Mabel...........Greene, O.
Taylor, Clara...............Jefferson, O.
Tapp, Ethel..................Hardin, O.
Taubken, Harry..............Shelby, O.
Tracy, D. V..................Knox, O.
Tabor, Geneva.................Hardin, O.
Thrasher, Florence..........Paulding, O.
Trimmer, Grace..............Huron, O.
Thompson, Helen..............Hardin, O.
Van Horn, Ruth..............Logan, O.
Vanatta, Eva..................Crawford, O.
Vannorsdall, Harry...........Fayette, O.
Vannorsdall, Howard.........Fayette, O.
Waitman, H. C................Auglaize, O.
Wade, Earl V................Lawrence, O.
Werley, Jesse.................Tuscarawas, O.
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Batty, Raymond..............Shelby, O.
Bond, R. K....................Summit, O.
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Bowdle, Irvin N..............Cuyahoga, O.
Brown, Bessie.................Sandusky, O.
Baldwin, D. Roscoe...........Hardin, O.
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Blouet, Homer C..............Somerset, Pa.
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Barnes, Vera...............Belmont, O.
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Cope, Lloyd................Crawford, O.
Cahill, John R..............Crawford, O.
Cleary, J. R................Hamilton, O.
Criger, Earl M..............Wyandot, O.
Cotner, Wilbur C............Allen, O.
Dietrick, Neil J.............Logan, O.
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Disher, Beatrice...........Wyandot, O.
Davis, Geo. R..............Schuykill, Pa.
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Bedrosian, Koharig, Asia
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Dicken, Karl, Wood, O.
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Fritz, W. W., Stark, O.
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Deibel, Burt C. ..........Wayne, O.
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Fisker, Cletus ..........Cocheaton, N. Y.
Fields, Dean ..................Hardin, O.
Friedley, Donald ..........Hardin, O.
Foss, Stanley ..........Maniste, Fla.
Golden, Maurice ..........Manitoba, Canada
Gregg, Irving ..........Cuyahoga, O.
Gilmer, David ..........Allen, O.
Gerold, H. F. ..........Erie, O.
Griffith, C. M. ..........Cattaraugus, N. Y.
Gentzborn, Lester ..........Elkhart, Ind.
Hawk, G. C. ..................Wayne, O.
Hall, Dwight E. ..........Hamilton, O.
Hine, Edgar ..........Hamilton, O.
Hobson, Howard E. ..........Washington, O.
Hakes, Harold ..........Seneca, O.
Holsborg, Philip ..........Berksire, Pa.
Hartman, L. ..........Lake, Ill.
Hunsicker, W. H. ..........Wayne, O.
Harris, Geo. ...............Logan, O.
Hair, Archie G. ..........Fairfield, Conn.
Harvey, H. D. ..........Hardin, O.
Honsinger, F. T. ..........Herkimer, N. Y.
Hine, J. H. ..........Butler, O.
Harvey, Roy E. ..........Hardin, O.
Irvin, H. F. ..........Miami, O.
Ingle, Carl .................Williams, O.
Jones, Perry M. ..........Buchanan, Mo.
Jones, Orton M. ..........Wood, O.
Kair, Wm. O. ..........Bershire, Mass.
Kapp, C. R. ..........Butler, O.
Knappr, Harold C. ..........Huron, O.
Kaufman, Ralph J. ..........Wayne, O.
Kattelman, Merle ..........Hardin, O.
Keer, E. M. ..........Warren, O.
Leighton, F. C. ..........Hardin, O.
Lane, Erie D. ..........Belmont, O.
Lyman, Chas. B. ..........Madison, N. Y.
Lake, K. C. ..........China
Lopes, Landeouer ..........Brazil
Moore, C. E. ..........Harrison, O.
Moehring, Don C. ..........Montgomery, O.
McIntyre, Homer H. ..........Muskingum, O.
Morrison, Paul J. ..........Beaver, Pa.
Manuson, Philip ..........Sullivan, N. Y.
Manion, John S. ..........Hartford, Conn.
Meniscal, C. H. ..........Brazil
Mason, Octavio ..........Cuba
Muniz, Carlos A. ..........Brazil
Neidhart, W. J. ..........Allen, O.
Norris, W. F. ..........Miami, O.
Pearce, V. B. ..........Westmoreland, Pa.
Peach, Eggleton W. ..........Essex, N. J.
Parsons, Wm. D. ..........Coryell, Tex.
Peoples, Warren ..........Tuscarawas, O.
Pierce, Jas. T. ..........Westmoreland, Pa.
Papavangalo, C. C. ..........Cook, Ill.
Rinehart, R. I. ..........Trumbull, O.
Reidy, Geo. B. ..........Erie, N. Y.
Radin, J. ..........Hartford, Conn.
Richards, D. A. ..........Lorain, O.
Shilling, Oscar ..........Shelby, O.
Spotts, Merhyle F. ..........Richland, O.
Smith, Virgil ..........Limestone, Ala.
Small, Floyd ..........Bedford, Pa.
Swallow, Clarence ..........Allen, O.
Schultz, R. H. ..........Paulding, O.
Schiedt, Allan ..........Cuyahoga, O.
Smith, H. L. ..........Cattaraugus, N. Y.
Smith, Roland R. ..........Stark, O.
Sprinkle, Rex ..........Adams, O.
Segui, Jack ..........Argentina
Sanford, John D. ..........Chautauqua, N. Y.
Taylor, F. W. ..........Knox, O.
Vea, Alex V. ..........Menominee, Mich.
Williams, J. A. ..........Licking, O.
Wright, Foster F. ..........Licking, O.
Wilson, Earl ..........Mahoning, O.
Woodward, J. H. ..........Hardin, O.
Whitmore, H. D. ..........Cattaraugus, N. Y.

Electrical

Aimutis, F. J. .........New Haven, Conn.
Brennan, Joseph ..........San Francisco, Cal.
Berry, Oliver ..............Ashtabula, O.

Bidwell, W. M. ..........Trumbull, O.
Brace, Geo. R. ..........Lucas, O.
Bayle, Russell M. ..........Beaver, Pa.
Barros, E. S. ..........Brazil
Bennett, R. H. ..........Warren, O.
Carey, Warren M.............Miami, O.  
Campbell, I. S.............Hudson, N. J.  
Chamberlain, Leslie L.............Cambria, Pa.  
Dunning, E. E.............Joe Davis, Ill.  
Durnell, Byron.............Highland, O.  
Davidson, F. W.............Geauga, O.  
Duernberger, A. F.............Langlade, Wis.  
Evans, Arthur.............Somerset, Pa.  
Elder, Maurice.............Hardin, O.  
France, Carl A.............Washington, O.  
Fonseca, Pedro.............Braz.
Peric, Andrew.............Allegheny, Pa.  
Pultz, A. V.............Hancock, O.  
Ferreira, R. T.............Brazil  
Guinares, A. S. M.............Brazil  
Gutber, L. C.............Marion, O.  
Hoffman, Vern D.............Wyoming, N. Y.  
Hobensack, Ralph L.............Belmont, O.  
Hoffisher, M. F.............Marion, O.  
Hill, Elgar.............Marion, O.  
Jepson, Mark.............Cattaraugus, N. Y.  
Jackson, D. C.............Sandusky, O.  
Kadel, Lewis C.............Orange, N. J.  
Kelch, Albert.............Allen, O.  
Long, Ralph E.............Summit, O.  
Luft, Carl.............Hardin, O.  
Liddle, W. E.............Trumbull, O.  
Malcove, N. L.............Manitoba, Canada  
Molitor, F. W.............Fulton, N. Y.  
Mills, Fred O.............Warren, O.  
Murphy, Edward F.............Franklin, Mass.  
Mathews, M. L.............Cuyahoga, O.  
Monici, Stephen.............Brazil  
Myers, Joseph.............Henry, O.  
Masse, George.............Tuscarawas, O.  
Miller, Geo. H.............Lucas, O.  
Nogueira, Manuel de L.............Brazil  
Norris, Francis W.............Marion, O.  
Nobrega, C.............Brazil  
Parsons, F. W.............Huron, O.  
Penhorwood, Otto Jr.............Logan, O.  
Parkin, H. E.............Butler, Pa.  
Pollock, Wilbur.............St. Lawrence, N. Y.  
Peterman, Henry.............Crawford, Pa.  
Parker, John.............Erie, N. Y.  
Pelayes, Ernest.............S. America  
Quigley, Ray L.............Geauga, O.  
Rice, Paul.............Tuscarawas, O.  
Rowland, Alfred M.............Clark, O.  
Rudolph, H. L.............Washington, O.  
Shafer, Andrew L.............Pauing, O.  
Silverman, H. H.............Ashtabula, O.  
Shoup, Ernest H.............Greene, O.  
Sands, C. Wayne.............Berks, Pa.  
South, Kenneth.............Mercer, O.  
Sterling, C. L.............Jefferson, O.  
Souza, J. T.............Brazil  
Speece, Rex.............Logan, O.  
Summers, J. Edgar.............Frederic, Md.  
Shaffer, G. D.............Allen, O.  
Schoonover, Merritt.............Hardin, O.  
Timbers, P. B.............Van Wert, O.  
Tavares, Octavio.............Brazil  
Ward, Wm. E.............Cattaraugus, N. Y.  
Walker, Clarence E.............Greene, O.  
Williams, Laurence E.............Washington, O.  
Wickerham, W. W.............Hancock, O.  
Wayne, Wm. H.............Rock Island, Ill.  
Wearstler, Francis.............Stark, O.  
Young, Ernest F.............Stark, O.  

Mechanical

Brown, P. H.............Crawford, O.  
Beavers, Wm.............Adams, Ind.  
Brink, Ralph.............Newaygo, Mich.  
Buffaloe, Carl A.............York, Pa.  
Bedell, Harry.............Allegheny, Pa.  
Bownlee, J. I.............Washington, O.  
Briggs, R. W.............Ross, O.  
Chichester, H. A.............Fairfield, Conn.  
Casey, Warren A.............Miami, O.  
Crummer, H. Leon.............York, Pa.  
Collamer, Clesson.............Fulton, N. Y.  
Dohner, John.............Brooke, W. Va.  
Edgar, Clare.............Defiance, O.  
Evans, Clark.............Lackawanna, Pa.  
Englehart, W. C.............Knox, O.  
Francis, Oscar.............Allen, O.  
Finley, Max.............Hardin, O.  
Gipson, Claude R.............Coleman, Tex.  
Granger, Guy L.............Lorain, O.  
Griffith, Homer.............Allen, O.  
Gibbreth, G. E.............Marion, O.  
Grove, G. N.............Branch, Mich.  
Ginghroux, Leo.............Kings, N. Y.  
Hewick, T. W.............Tuscarawas, O.  
Hughes, LaVerne.............Allen, O.  
Hecox, Leon C.............Marion, O.  
Hubbert, Wayne.............Defiance, O.  
King, Lester.............Muskogum, O.  
Karlson, John T.............Franklin, Mass.  
Krichbaum, W. H.............Stark, O.  
Lyman, Chas. B.............Madison, N. Y.  
Miller, Milo A.............Newaygo, Mich.  
McQuay, E. C.............Pickaway, O.  
Moore, Meade.............Butler, Pa.  
Miller, Raymond G.............St. Lawrence, N. Y.  
Notman, G. W.............Stark, O.  
Norrick, H. E.............Cuyahoga, O.  
Porath, Joseph A.............Howard, Ind.  
Parks, Roy E.............Plymouth, Mass.
IN COURSE 149

Porter, Paul .................................... Trumbull, O.
Pleam, Geo. A. ...................................... Berks, Pa.
Prouty, Royal ........................................ Cuyahoga, O.
Prouty, Ralph H. .................................... Cuyahoga, O.
Reed, J. R. ...................................... Chautauqua, N. Y.
Reed, Edgar .......................................... Tuscarawas, O.
Rock, Leon F. ........................................ Barry, Mich.
Rhoades, H. A. ....................................... Fayette, Pa.
Rostock, Paul .......................................... Hardin, O.
Swihart, Harry ..................................... Stark, O.
Sterling, C. L ......................... Jefferson, O.
Smith, Carroll M. ................................ Merced, Pa.
Smith, C. A. ........................................ Warren, Ill.
Tiekel, John C. ..................................... Trumbull, O.
Tiekel, Myron R. ................................... Trumbull, O.
Wong, W. T. ....................................... China
Winans, Glen ..................................... Washenaw, Mich.
Walter, M. V ....................................... Matagorda, Tex.

Chemical

Alexander, Garwin ................................ Passaic, N. J.
Brown, Jas. H ...................................... Bristol, R. I.
Curtin, Egbert ..................................... Worcester, Mass.
Detlor, C. C. ......................................... Monroe, O.
Freet, Harry M. ..................................... Van Wert, O.
Livingston, Ralph .................................. Wyandot, O.
Leithousar, J. A .................................. Defiance, O.
McNally, W. A ...................................... Lawrence, Pa.
Pierson, E. Clifford ................................. Fairfield, Conn.
Shakeley, Howard H .................................. Brooke, W. Va.
Spar, D. Dayle ..................................... Hardin, O.
Seeley, Chas. M. ................................... Columbia, Pa.

Architecture

Moore, J. H ........................................ Marion, O.
Smith, Carl C ...................................... Lawrence, Pa.
Schutt, Raymond ................................... Defiance, O.

Mining

Eley, S. H ..................................... New York, N. Y.
Harty, Wm. P ...................................... Baltimore Cy., Md.

MUNICIPAL AND SANITARY

Abbott, Harry C ..................................... Licking, O.

Structural

Ferguson, C. A ..................................... Noble, O.
Hackett, Paul A ....................................... Mahoning, O.
Henning, L. Ray ...................................... Wood, O.

Drafting

Mason, H. P ........................................ Washington, O.
Shay, Matthew ....................................... Mahoning, O.

COLEGE OF LAW

Allen, F. Leroy ...................................... Union, O.
Brookes, R. M. .................................... Columbia, O.
Bowlser, E. L. ..................................... Auglaize, O.
Bustard, Jas. H ..................................... Cuyahoga, O.
Boone, Carl ......................................... Hardin, O.
Bevan, Roland ........................................ Noble, O.
Butler, Claude ....................................... Summit, O.
Carter, L. F ........................................ Portage, O.
Copc, Frank F ...................................... Columbia, O.
Crabbe, H. H ......................................... Hardin, O.
Crabbe, Earl ......................................... Madison, O.
Connaughton, Frank ................................ Auglaize, O.
Chestosky, Hugo ..................................... Jefferson, O.
Davies, Earl M ....................................... Ottawa, O.
Dunifon, W. L. ..................................... Rockland, N. Y.
Eastman, H. P ........................................ Putnam, O.
Ehrnman, Willard J ................................ Allen, O.
Gills, Floyd .......................................... Gallia, O.
Hartman, Ralph ........................................ Crawford, O.
Henninger, Geo. K .................................. Hardin, O.
Hyde, Edw ............................................ Warren, O.
Harbour, Herschel R ................................ Logan, O.
Irish, Wm. C ....................................... Licking, O.
Jewell, Vanton ....................................... Trumbull, O.
Johnson, R. L ....................................... Hardin, O.
Kline, Wm. Z ....................................... Licking, O.
Long, Raymond ...................................... Lawrence, Ill.
Long, W. R ........................................ Lawrence, Ill.
Montis, H. H ......................................... Summit, O.
Moyer, Clarence ...................................... Erie, O.
Monti, Virgilio ...................................... Jefferson, O.
Mills, Leo ............................................. Greene, O.
McPadden, Earl ...................................... Mahoning, O.
McMaster, E. B ...................................... Jefferson, O.
Neal, J. Howard ..................................... Clark, O.
Pickering, Lee ....................................... Mahoning, O.
Palomba, Chas ....................................... New Haven, Conn.
Patton, P. J ........................................ Marion, O.
Putnam, R. B ......................................... Holmes, O.
Porter, D. E. L ...................................... Cuyahoga, O.
Poising, Neil J ...................................... Hardin, O.
Russell, Alva J ...................................... Hancock, O.
Rudner, Edw ......................................... Stark, O.
Rhodes, Hazen ...................................... Calhoun, Mich.
Ridenour, J. D ...................................... Allen, O.
Ringer, S. A .......................................... Hardin, O.
Reiser, Jesse ......................................... Mahoning, O.
RODGERS, A. M.     Gallatin, Ill.  SHAUK, C. M.     Franklin, O.
Rutter, Chas. A.     Monroe, O.  SEYMOUR, Jos. A.     Medina, O.
Souders, Lawrence E.  Shelby, O.  SHULMAN, Miss F. S.     Mahoning, O.
Silverstein, Simon     Stark, O.  TILTON, E. B.     Jefferson, O.
Sollenberger, Daniel   Montgomery O.  WHARTON, Russell     Hardin, O.
Shaw, Marwin R.      McKean, Pa.  WEN, Ralph R.     Allen, O.
Singer, E. G.        Van Wert, O.  WOLF, Orin     Stark, O.

COLLEGE OF

ASHTON, Paul     Mahoning, O.  LANDERS, Floyd     Broome, N. Y.
Burley, Leo S.     Muskingum, O.  Motz, H. W.     Summit, O.
Black, Jay M.      Lake, O.  McCleary, Clay H.     Guernsey, O.
Benson, Ed. J.     Ashtabula, O.  McCleary, Chas. D.     Fairfield, O.
Birkhold, Floyd     Paulding, O.  Montgomery, J. M.     Logan, O.
Buddenhagen, Wm. R.  Erie, O.  McLintyre, G. F.     Crawford, O.
Baker, Bryan       Mercer, O.  Matthew, Cary     Van Wert, O.
Betts, C. Donald   Athens, O.  Mayberry, Kline D.     Lorain, O.
Beeler, E. E.       Wayne, O.  MASSMAN, Raymond W.     Gallia, O.
Brito, Mrs. Maria Valdes     Cuba  MOWISER, J. B.     Wayne, O.
Cunningham, Dale    Lucas, O.  McDowell, Vance     Wayne, O.
Clutter, A. B.      Hardin, O.  MCCARTNEY, Leroy Wesley     West China
Clutter, G. P.      Hardin, O.  CAMPION, Ralph H.     Marion, O.
CrepS, J. H.        Allen, O.  OTERMAT, E.     Sandusky, O.
Camm, Harry E.     Marion, O.  PIERCE, Thos.     Muskingum, O.
Carpenter, L. H.    Greene, O.  PHELON, Wm. J.     Beaver, Pa.
Desdin, Jose Lassaga     Cuba  PRYER, John T.     New York, N. Y.
Diedl, R. F.        Erie, O.  Peck, Palmer C.     Ross, O.
Pudding, Hubert     Cabell, W. Va.  PURVIS, Wm. R.     Paulding, O.
DeWeese, Paul       Allen, O.  PEDROSA, Frederico M.     Cuba
Duvall, R. W.        Belmont, O.  RAMES, Alberto C.     Cuba
Emsberger, Lloyd    Hardin, O.  ROSE, E.     Gallia, O.
Fryer, Melville O.  Allen, O.  RIO, Francisco L. Del.     Cuba
FOCKLER, S. S.      Allen, O.  ROCKEL, E. C.     Highland, O.
Fuster, Alexander   Allen, O.  ROBENSON, W. W.     Mercer, O.
Fowler, C. W.        Belmont, O.  STAMBBAUGH, Homer     Putnam, O.
Fast, Norval        Auglaize, O.  SHEPARD, Dewey B.     Crawford, O.
Gomes, Bernardino   Cuba  SHAW, R. Raymond     Indiana, Pa.
Garcia, Julio M.    Cuba  STEWART, Harro L.     Highland, O.
Guayaga, Rafael     Cuba  SELBET, Geo. W.     Sullivan, N. Y.
Herrera, Rafael     Cuba  Smith, Mrs. Frank A.     Paulding, O.
Gray, Otto P.       Putnam, O.  SELZER, Leslie     Summit, O.
Gerszyny, Peter      Cuyahoga, O.  STEINER, Homer     Putnam, O.
Goss, Clifford      Stark, O.  Spoon, Byron     Hardin, O.
Heckler, Grant      Henry, O.  Stultz, J. H.     Roanoke, Va.
Hoffman, C. R.      Putnam, O.  SCHLOSSER, J. C.     Defiance, O.
Henry, H. B.        Richland, O.  SEIGLEY, Frank M.     Wayne, O.
Hoynig, Geo. A.     Mercer, O.  SELEQUE, L. J.     Knox, O.
Ives, Lewis J.      Lorain, O.  THOMPSON, Russell L.     Ironton, O.
Johnston, James     Montrose, Col.  KNOWLTON, R. Roy... Cabell, W. Va.
Karanfilian, Peter   Turkey  LAVERS, Jos. A.     Cuba
Kearney, Raoul       Allen, O.  LORANGER, Bruce C.     Allen, O.
Lewa, Bruce         Columbus, O.  LEWO, W. B.     Jackson, O.
Leggo, W. B.        Jackson, O.  LANTZ, Clay D.     Scioto, O.
Lloyd, Harry        Jackson, O.  LYNE, Harry         Jackson, O.
Lyne, C. C.         Morgan, O.  YARNELL, C. W.     Henry, O.

COLLEGE OF PHARMACY

LANDERS, Floyd     Broome, N. Y.  LANDERS, Floyd     Broome, N. Y.
McIntryre, Ward     Gratiot, Mich.  OTERMUT, E.     Sandusky, O.
Motz, H. W.        Summit, O.  PIERCE, Thos.     Muskingum, O.
PHELON, Wm. J.     Beaver, Pa.  PRYER, John T.     New York, N. Y.
Peck, Palmer C.    Ross, O.  Purvis, Wm. R.     Paulding, O.
PEDROSA, Frederico M.     Cuba  RAMES, Alberto C.     Cuba
ROSE, E.     Gallia, O.  RIO, Francisco L. Del.     Cuba
ROCKEL, E. C.     Highland, O.  ROBENSON, W. W.     Mercer, O.
STAMBBAUGH, Homer     Putnam, O.  SHEPARD, Dewey B.     Crawford, O.
SHAW, R. Raymond     Indiana, Pa.  STEWART, HARRO L.     Highland, O.
SELBERT, Geo. W.     Sullivan, N. Y.  SMITH, Mrs. Frank A.     Paulding, O.
SELZER, Leslie     Summit, O.  STEINER, Homer     Putnam, O.
SPOON, Byron     Hardin, O.  STULTZ, J. H.     Roanoke, Va.
SCHLOSSER, J. C.     Defiance, O.  SEIGLEY, Frank M.     Wayne, O.
SEQUE, L. J.     Knox, O.  THOMPSON, Russell L.     Ironton, O.
THOMPSON, E. A.     Allen, O.  THOMPSON, E. A.     Allen, O.
THOMAS, Jas. W.     Belmont, O.  WHITE, Walter E.     Scioto, O.
WILLIAMS, Clark     Coshocton, O.  WINKLER, J. F.     Wayne, O.
YARNELL, C. W.     Henry, O.  YARNELL, C. W.     Henry, O.

COLLEGE OF COMMERCE

Business

Adams, Earl... Woolf, O.  Agin, Walter     Hardin, O.
Bindley, Burdette...........Marion, O.
Brady, Glenn............Washington, Pa.
Baker, James.............Hardin, O.
Bassette, Harold B..............Hartford, Conn.
Redosrían, Koharin........Turkey, Asia
Benfer, Elzuna........Tuscarawas, O.
Balyeat, Harold G...........Richland, O.
Buck, H. E................Warren, O.
Botkin, C. A................Hardin, O.
Champion, Coyne I...........Richland, O.
Cahill, John R............Crawford, O.
Chandler, Horace........Wyandot, O.
Clark, Earl L..............Hardin, O.
Carruthers, C...............Hudson, N.
Cunningham, J. T............Hardin, O.
Dietrick, Neil J............Logan, O.
Daubenspeck, Ray..........Galia, O.
Dicken, Karl C..............Wood, O.
Deibel, Bert C...............Wayne, O.
Emick, Philip..............Erie, O.
Fields, Ralph...............Hardin, O.
Fox, P. W................Montgomery, O.
Feight, Lada A............Crawford, O.
Goncalves, D. R...........Brazil
Heil, Richard A............Hardin, O.
Hodge, Paul L.............Union, O.
Hively, J. D................Hardin, O.
Hull, D'Vuille..............Bedford, Pa.
Hetzner, Geo. J...........Cuyahoga, O.
Harshaw, Howard...........Crawford, Pa.
Huffman, Theresa M........Hancock, O.
Harshman, Eva.............Hardin, O.
Imbody, W. H...............Marion, O.
Jenkins, Raymond...........Cuba
Kassing, R. E.............Seneca, O.
Kraft, Harmon..............Allen, O.
Lamberty, L. C...........Tuscarawas, O.
Limbert, L. E..............Crawford, O.
Livingston, Hazel........Wyandot, O.
Longworth, Helen...........Hardin, O.
Morrison, Don L...........Hancock, O.
Maurer, Theodore........Shelby, O.
Nozle, Harmon.............Delaware, O.
Osborn, Guy................Hardin, O.
Parsons, F. W.............Huron, O.
Petit, Claudes..............Wyandot, O.
Parks, F. J.................Richland, O.
Pollock, Wilbur...........St. Lawrence, N. Y.
Perurena, R. C............Cuba
Parsons, Ruth.............Huron, O.
Raahe, Charles W........Putnam, O.
Rutter, Ilo...............Hardin, O.
Rossuck, Sidney...........Suffolk, N. Y.
Rowlands, Fred W...........Richland, O.
Roop, G. D.................Van Wert, O.
Stuckey, Victor...........Mercer, O.
Spencer, J. Lowell...........
Stahl, DeLloyd M...........Montgomery, Ind.
Smith, Ervin S............Hardin, O.
Steif, R. L..............Crawford, O.
Stump, June..............Van Wert, O.
Snyder, Irene.............Hardin, O.
Trostle, Wayne M...........Putnam, O.
Torres, Ramon Riviera......Porto Rico
Verniylea, Wright..........Clinton, O.
Walker, R. D............Morgan, O.
Weber, Robert C...........Montgomery, O.
Witmer, Howard...........Lebanon, O.
Waugh, N. D..............Marion, W. Va.
Wolfe, Leo.................Shelby, O.
Wickerham, Hazel........Hancock, O.
Yost, R. L..............Marion, W. Va.

Stenography
Bates, Eleanor...........Logan, O.
Brady, Glenn..............Washington, Pa.
Bernaldi, Vicente........Allegheny, O.
Dailey, Grace.............Ottawa, O.
Debaugh, Henry A...........Augsilae, O.
DeVauhgan, Harry........Nicholas, O.
Fritsch, J. Herman........Miami, O.
Feight, Lada A............Crawford, O.
Fitzpatrick, Viola.........Hardin, O.
Hall, Marguerite..........Crawford, O.
Jeffers, Edgar............Fayette, Pa.
Klinefelter, Erma...........Clinton, Pa.
Kennedy, Ernest E........Erie, Pa.
Kraft, Harmon..............Allen, O.
Knapp, Geraldine.........Trumbull, O.
King, W. Leslie...........Marion, O.
Longworth, Helen...........Hardin, O.
Price, Lois...............Hardin, O.
Stewart, Effie M...........Marion, W. Va.
Smith, Ervin S............Hardin, O.
Ullery, E. G..............Licking, O.
Waters, Fairfield........Center, Pa.
Wampler, Emily............Montgomery, O.

SCHOOL OF EXPRESSION
Bagdonas, J. J.............Cook, Ill.
Burrclitt, Elizabeth......Hardin, O.
Coventry, Helen........Logan, O.
Flowers, Vera..............Hardin, O.
Gossard, Cristel........Hardin, O.
Harshman, Talmdage......Hardin, O.
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SUMMARY OF THE
COLLEGES AND COURSES OF THE OHIO NORTHERN
UNIVERSITY.

PREPARATORY SCHOOL
(Courses equivalent to four-year High School.)

COLLEGE OF LIBERAL ARTS
Classical Course            Scientific Course

COLLEGE OF EDUCATION
Preparatory Course         Teachers' Elementary Course
                          Teachers' Professional Course

COLLEGE OF ENGINEERING
Civil   Mechanical   Electrical   Chemical
       Municipal      Sanitary

COLLEGE OF LAW (3-year course)

COLLEGE OF COMMERCE
Business    Stenography    Commercial Law
          Typewriting       Penmanship

COLLEGE OF MUSIC
Voice       Pianoforte     Pipe Organ
          Stringed Instruments Harmony Public School Music

SCHOOL OF EXPRESSION
Expression    Oratory       Dramatic Art
          Public Speaking     Physical Training

COLLEGE OF AGRICULTURE (2 and 4-year courses)
COLLEGE OF PHARMACY (2-year course)

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

CHARLES B. WRIGHT,
Executive Secretary.
What They Say

Former Governor Willis in an address to the students said: "The Ohio Northern University has more inspiration and ginger in it than you can find in any other school; and I know, for I have had occasion to visit a great many of them. They do things here, and let me tell you, they do things after they get away from here. I meet 'our folks' everywhere, and they are all alert and making good."

Governor James M. Cox in a Commencement address here, said: "This school has been a larger means of civilization than any single institution on Ohio soil. There is a reason: the right kind of material comes to its doors. Its graduates make good because they come here for work and not on a picnic jaunt."

A. E. Winship, Editor of the Journal of Education, Boston, Massachusetts, in a speech at Cincinnati said: "A larger percentage of the graduates of Ada (Ohio Northern University) are occupying positions of eminent responsibility selected by the voters, and making good in their positions, than of the graduates of many higher standard institutions. They are worth as much in the currency of world achievement as the graduates of any gold standard institution in America."

President W. O. Thompson of the Ohio State University has said: "The Ohio Northern has a wonderful past record, and has a great future if she keep her individuality."

Dr. Henry S. Lehr, in writing of the University, says: Nowhere else can so much be gotten for so little money; expenses are so low that many find it as cheap to attend school at the Ohio Northern University as to stay at home."
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