OHIO NORTHERN UNIVERSITY BULLETIN

CATALOGUE

JANUARY 1930
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Calendar, 1930

Spring Quarter
March 10, Monday...........Entrance Examination and Registration
March 11, Tuesday (8:30 A. M.)...........Convocation and Classes
April 9, Wednesday.........................Founder's Day
May 5 to May 8..............................Preregistration
May 18, Sunday.............................Junior-Senior Vespers
May 21, 22, 23, Wednesday, Thursday, Friday.........................Final Examinations
May 22, Friday (9:30-10:00 A. M.)...................Final Convocation
May 24, Saturday.........................Alumni Day
May 25, Sunday.............................Baccalaureate Day
May 26, Monday..............................Class Day
May 26, Monday......................Annual Meeting of the Board of Trustees
May 27, Tuesday............................Commencement Day

Summer Quarter
June 9, Monday.............................Registration
June 10, Tuesday (8:30 A. M.)........................Convocation and Classes
July 18, Friday..............................First Special Summer Term Ends
July 21, Monday..............................Second Special Summer Term Begins
August 11 to August 14..........................Preregistration
August 22, 23, Friday, Saturday......................Final Examinations
August 23, Saturday (5:30 P. M.)...................Summer Quarter Ends

Fall Quarter
September 18, Thursday......................Freshman Registration
September 19, 20, Friday, Saturday....................Freshman Days
September 20, Saturday........................Upper Class Registration
September 21, Sunday........................Matriculation Services
September 22, Monday (8:00 A. M.)................All Classes Begin
October 25, Saturday..........................Homecoming Day
November 25, Tuesday (5:30 P. M.)..................

Thanksgiving Vacation Begins
December 1, Monday (8:00 A. M.)..................Classes Resume
December 1 to December 4........................Preregistration
December 15, 16, 17, Monday Tuesday, Wednesday.........................Final Examinations
December 17, Wednesday (5:30 P. M.)................Fall Quarter Ends

Winter Quarter, 1931
January 5, Monday...........Entrance Examination and Registration
January 6, Tuesday (8:30 A. M.)...............Convocation and Classes
January 9, Friday.............Mid-Year Meeting of Board of Trustees
March 9 to March 12..........................Preregistration
March 24, 25, 26, Tuesday, Wednesday, Thursday.........................Final Examinations
March 26, Thursday, (5:30 P. M.)................Winter Quarter Ends

Spring Quarter
March 30, Monday...........Entrance Examination and Registration
June 16, Tuesday.........................Commencement Day
Board of Trustees

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Initus
1919 MR. W. W. MORRAL  Morral, 1930
1899 HON. S. A. HOSKINS, LL. D.  Columbus, 1930
1922 MR. E. C. EDWARDS  Toledo, 1931
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1924 DR. A. S. McKITRICK  Elyria, 1932
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1924 REV. B. F. READING, D. D.  Toledo, 1933
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1924 REV. DAVID F. HELMS, D. D.  Lima, 1934
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EXITUS

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1928 MR. WALTER F. RITTMAN, Ch. E., Ph. D.  Pittsburgh, Pa. 1933
1929 MR. J. J. PILLIOD, E. E.  New York, N. Y. 1934

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1927 MR. E. C. HARLEY  Dayton
1927 MR. GROVE PATTERTON, A. M.  Toledo
1929 BISHOP EDGAR BLAKE, D. D.  Indianapolis, Ind.
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The mid-year meeting of the Board of Trustees takes place during the month of January.

The Board of Trustees and Faculty of the University reserve the right to make such changes as they deem necessary without published notice.
Ohio Northern University Alumni Association

Member, American Alumni Council

The association consists of all Alumni, Alumnae and non-graduates whose entering class has been graduated.

The business meeting of the Association is held on the morning of Alumni Day, which is Saturday preceding Commencement Day. The Alumni Dinner occurs on Alumni Day. Homecoming is held in October.

Permanent office of the Alumni Secretary is located in Room No. 8, Hill Building. The official paper, the Ohio Northern Alumnus, is issued quarterly, January, April, July and October.

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  B. A., Ohio Wesleyan University; D. D., Ohio Wesleyan University; Ph. D., Ohio Wesleyan University; LL. D., Ohio Northern University; LL. D., Asbury College.

**ROBERT WILLIAMS, M. A., D. D.
  Acting President and President-Elect
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  206 East Highland Avenue
  B. S., Ohio Normal University; D. D., Ohio Northern University.

THOMAS JEFFERSON SMULL, C. E., ENG. D.
  Executive Secretary
  301 South Main Street
  C. E., Ohio Northern University; Graduate Student, Lafayette College, one semester; University of Michigan, one semester; Eng. D., Oglethorpe University.

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  Registrar and University Entrance Examiner
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  B. S., Geneva College.

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  Assistant Treasurer
  624 South Main Street
  B. S., Ohio State University; University of Toledo, one summer; Graduate student, Ohio State University, one year.

HERMAN JACOB WEBER, B. A., LL. B.
  Dean of Men
  122 West Lima Avenue
  B. A., Heidelberg University; LL. B., Western Reserve University; Graduate student, Columbia University, four summers.

AUDREY KENYON WILDER, M. A.
  Dean of Women
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  B. A., Albion College; M. A., Columbia University; Graduate Student, Columbia University, one year; University of Chicago, one summer; Oxford University, England, one summer.

** Acting President, 1929-30. Assumes the office of President, September 1, 1930.
Harvey Evert Huber, M. A.  
724 Union Street  
Dean of George Franklin and Sarah Catherine Getty  
College of Liberal Arts  
B. A., Ohio Northern University; M. A., Yale University; University of Wisconsin, one summer.

Frank Lewis Loy, B. S. in Ed., M. A.  
125 East Lehr Avenue  
Dean of College of Education  
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Dean, College of Engineering  
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B. S. in M. E., University of Kentucky; M. S. in M. E., Purdue University; M. E., University of Kentucky; Ohio State University, one summer.

Rudolph Henry Raabe, Ph. G., Ph. C.  
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Ph. G., Ohio Northern University; Ph. C., Ohio Northern University.

William Price Henderson, B. A., LL. D.  
Dean, College of Law  
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B. A., Ohio Wesleyan University; LL. D., Taylor University.

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726 South Gilbert Street  
Dean, A. D. Juilliard College of Music  
B. A., University of North Dakota; M. A., Ohio State University; Mus. B., Conn School of Music; Student in Conducting, Dr. Walter Damrosch; Student in Composition, Dr. Felix Borowski; Graduate student, Northwestern University, one summer.

Emmet Elijah Long, B. C. S.  
Director, School of Commerce  
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Student at Zanerian Art College; B. C. S., Ohio Northern University.

Ernest Roy Miller, M. A.  
Director of Physical Education  
120 East Lehr Avenue  
B. A., University of Kentucky; M. A., University of Kentucky.

Agnes Auten, B. A.  
Librarian  
411 North Main Street  
B. A., Bluffton College; Drexel Institute School of Library Science.

Flo Cronbaugh, G. Sten.  
Secretary to the President  
516 South Simon Street  
Notary Public; G. Sten., Ohio Northern University.
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Ph. G., Ohio Northern University; Ph. C., Ohio Northern University.

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Student at Zanerian Art College; B. C. S., Ohio Northern University.

CHILDE HAROLD FREEMAN, B. S., LITT. D
317 West University Avenue
Professor of English Literature on the John Davison Chair of English Literature.
B. S., Ohio Normal University; Litt. D., Taylor University; University of Chicago, one summer.

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Professor of Physics 121 East Lehr Avenue
B. A., Ohio Northern University; B. S., University of Chicago; Graduate student, Ohio State University, two summers.

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Professor of Pharmacy 316 South Gilbert Street
Ph. G., Ohio Northern University; Ph. C., Ohio Northern University.

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B. A., Ohio Northern University; M. A., Yale University; University of Wisconsin, one summer.
WILLIAM PETER LAMALE, MUS. B. 312 West Buckeye Avenue

Professor of Piano and Organ
Mus. B., Oberlin College Conservatory; Student with Tobias Matthey and Matilda Verne, London; Student, Piano, Ernest Hutcheson, Lake Chautauqua, one summer; Student in Conducting, Columbia University and Piano Student of Edwin Hughes, one summer; Student in Piano, Scionti, Composition, Palmer, American Conservatory, one summer.

JOHN ALFRED NEEDY, M. E. 417 North Gilbert Street

Professor of Mechanical Engineering
B. S. in M. E., University of Kentucky; M. S. in M. E., Purdue University; M. E., University of Kentucky; Ohio State University, one summer.

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Professor of Civil Engineering
B. S. in C. E., Ohio Northern University; C. E., Ohio Northern University.

HARRY LEE HAMSHER, PH. G. 311 South Johnson Street

Professor of Pharmacognosy
Ph. G., Ohio Northern University.

WALTER GRAY, M. A. 615 Union Street

Professor of Psychology
B. S. in Ed., Ohio Northern University; M. A., Ohio State University; Ohio State University, one year.

WILFRED ELLSWORTH BINKLEY, B. S., M. A. 803 Union Street

Professor of Political Science and Economics
B. S., Ohio Northern University; B. A., Antioch College; M. A., Ohio State University; Ohio State University, three quarters.

IVOR ST. CLAIR CAMPBELL, M. E., M. S. 219 East Montford Street

Professor of Electrical Engineering
B. S. in C. E., Ohio Northern University; B. S. in E. E., Ohio Northern University; M. E., Ohio Northern University; M. S., Ohio State University; Ohio State University, one summer.
Martelle Elliott Davis, M. A.

511 South Gilbert Street

Professor of Modern Languages
B. A., Ohio Wesleyan University; M. A., University of Washington; Graduate student, Europe, one year; University of Chicago, one year; University of Washington, three years and one summer.

John Theodore Fairchild, Ph. M., C. E.

305 South Main Street

Professor of Mathematics
B. A., Ohio Normal University; Ph. M., Carnegie Institute; C. E., Ohio Northern University; Graduate student, University of Chicago, three summers; University of Michigan, one summer.

Jesse Raymond Harrod, M. S.

112 South Johnson Street

Professor of Chemistry
B. S. in Ed., Ohio Northern University; B. S., Ohio Northern University; M. S., Ohio State University.

William Price Henderson, B. A., LL. D.

Kenton, Ohio

Professor of Law
B. A., Ohio Wesleyan University; LL. D., Taylor University.

Herman Jacob Weber, B. A., LL. B.

122 West Lima Street

Professor of Law
B. A., Heidelberg University; LL. B., Western Reserve University; Graduate student, Columbia University, four summers.

Edwin Vergon Smith, B. A., LL. B.

412 Union Street

Professor of Law
B. A., Ohio Northern University; LL. B., Ohio Northern University; Graduate student, Columbia University, two summers.

James Albert Whitted, Ph. B., M. A.

219 West Highland Avenue

Professor of Mathematics
B. Ped, Southwestern College; Ph. B., Southwestern College; M. A., Southwestern College; University of Chicago, one year and four summers; Columbia University, one summer.

Vernon Van Buren, B. S., B. D.

614 Union Street

Professor of Religious Education on the Theodore S. Henderson Chair of Religious Education.
B. S., Northwestern University; B. D., Garrett Biblical Institute; Graduate student, University of Chicago, two quarters.
ALEXANDER RAFFEN WEBB, C. E. 316 South Johnson Street

Professor of Civil Engineering
B. S. in C. E., Armour Institute of Technology; C. E., Armour Institute; Graduate student, University of Michigan, one year.

CLAUDE WESTCOAT PETTIT, B. A., LL. B. 418 Union Street

Professor of Law
B. A., Ohio State University; LL. B., Western Reserve University.

†ELMER E. RAY, M. A. 622 South Johnson Street

Professor of Education
B. S., Ohio Northern University; M. A., Ohio State University; Ohio State University, three summers.

MARK EVANS, MUS. B. 117 East University Avenue

Professor of Voice
B. Mus., Ohio Northern University; Graduate work with D. A. Clippinger, W. W. Hinshaw, John Walter Hall and Cornell University Summer School; Student of Herbert Witherspoon, one summer.

ALICE ENSIGN WEBB 316 South Johnson Street

Professor of Fine Arts
Art Institute of Chicago; Chicago School of Fine Arts, Normal work.

ELDON RAY BURKE, M. A. 619 Union Street

Professor of History
B. A., Manchester College; M. A., University of Chicago.

WINONA PEARL GEETING, B. S. IN ED., M. A. 411 North Gilbert Street

Professor of Education
Normal Diploma, Teachers' College, Miami University; B. S. in Ed., Miami University; University of Illinois, one summer; M. A., Ohio State University; Ohio State University, one summer.

MAUD M. HALEY, B. S. IN ED., M. A. 109 West Lehr Avenue

Professor of Education
B. S. in Ed., Ohio State University; M. A., Ohio State University; New York University, one year.

FRANK LEWIS LOY, M. A. 718 South Johnson Street

Professor of Education
B. S. in Ed., Ohio Northern University; University of Chicago, one summer; M. A., Columbia University.

†Leave of absence, year of 1930-31.
Ernest Roy Miller, M. A. 120 East Lehr Avenue
Professor of Physical Education
B. A., University of Kentucky; M. A., University of Kentucky.

Clara Eve Schieber, B. S. in Ed., M. A., Ph. D. 310 South Gilbert Street
Professor of History
B. S. in Ed., Ohio University; M. A., Clark University; Ph. D., Clark University.

Clyde Albert Lamb, M. A. 327 West University Avenue
Professor of Physical Education
B. A., Coe College; M. A., Columbia University; Columbia University, two summers.

George F. Strickling, M. A. 726 South Gilbert Street
Professor of History of Music
B. A., University of North Dakota; M. A., Ohio State University; Mus. B., Conn School of Music; Student in Conducting, Dr. Walter Damrosch; Student in Composition, Dr. Felix Borowski; Graduate student, Northwestern University, one summer.

John Austin Potter, B. S., B. D. 228 East North Street
Assistant Professor of Religious Education
B. S., Ohio Northern University; B. D., Garrett Biblical Institute; Graduate student, University of Chicago, one summer.

Raymond Anson Dobbins, B. A., M. S. 620 Union Street
Assistant Professor of Biology
B. S., Ohio Northern University; B. A., Ohio State University; M. S., Ohio State University.

Roy Eugene Geeting, B. S., M. A. 514 Union Street
Assistant Professor of Economics and Business Administration
B. S., Miami University; M. A., University of Michigan; Ohio State University, one summer.

Jesse Elmer McMullan, Ph. M., Ph. D. 418 South Johnson Street
Assistant Professor of English
Ph. B., DePauw University; Ph. M., Syracuse University; Ph. D., Mt. Union College.
MARY AUTEN, M. A.  
Assistant Professor of Biology  
411 North Main Street  
B. A., Bluffton College; M. A., Ohio State University; Graduate student, Cold Spring Harbor, one year.

HARMON WILSON HOLY CROSS, M. S.  
Assistant Professor of Education  
702 South Johnson Street  
B. S., Ohio Normal University; M. S., Ohio Northern University.

MILDRED BRUCKHEIMER, M. A.  
Assistant Professor of Physical Education  
402 South Main Street  
New Haven Normal School of Gymnastics, two years; B. S., Columbia University; M. A., Columbia University.

HARRIS ARTHUR LAMB, B. A.  
Assistant Professor of Physical Education  
325 West University Avenue  
B. A., Coe College; Graduate student, Columbia University, two summers.

AUDREY KENYON WILDER, M. A.  
Assistant Professor of English  
803 South Main Street  
B. A., Albion College; M. A., Columbia University; Graduate student, Columbia University, one year; University of Chicago, one summer; Oxford University, England, one summer.

ETHEL ELLIOTT, G. C. S., B. S. in Ed.  
Instructor in Stenography and Typewriting  
220 South Simon Street  
Wheaton College, one year; Gregg School of Shorthand, one summer; B. S. in Ed., Ohio Northern University.

JAMES W. ALLCROFT, B. S. in Ed.  
Instructor in Drawing  
125 East Highland Avenue  
B. S. in Ed., Ohio Northern University.

LAWRENCE FREEMAN, B. A.  
Instructor in English  
701 South Johnson Street  
B. A., Ohio Northern University; Graduate student, University of Michigan, one summer.

ELLA IRICK  
Instructor in Piano  
521 South Gilbert Street  
Student in Piano with William Sherwood, one year; Georgia Kober, one year; Dunning System, one year; Cincinnati Conservatory, one year.
MARSHALL E. D. CLOSE, B. S. IN PHARM.

Instructor in Pharmacy 619 Union Street
B. S. in Pharm., Ohio State University.

ALFRED M. EWING, B. A., M. S.

Instructor in Chemistry 122 East Lincoln Avenue
B. A., Rio Grande College; M. S., Ohio State University.

MARY PHILLIPS, MUS. B.

Instructor in Piano 714 South Main Street
Mus. B., Chicago Musical College; Student with Ernest Hutcherson, one summer; Percy Grainger, one summer.

WALTER PETER WILHANGANZ, MUS. B.

Instructor in Violin 433 North Main Street
Mus. B., Chicago Musical College; Student with Max Fischel, one spring; Frank Knelsen and Arthur Hartmann, one year; Graduate work, American Conservatory, one summer.

AUGUST BROKAW, M. A.

Instructor in Modern Languages 515 Union Street
B. A., University of Cincinnati; M. A., Columbia University.

ALICE O. MOORE, B. MUS. IN ED.

Instructor in Public School Music 609 South Main Street
B. Mus. in Ed., Northwestern University; Graduate student, Northwestern University, one summer.

HELEN POHLE, M. A.

Instructor in Modern Languages 515 Union Street
B. A., University of Wisconsin; M. A., University of Wisconsin; Graduate student, University of Wisconsin, one year; University of Grenoble, France, one year; University of Heidelberg, Germany, one year.

ALMA STAMBAUGH, G. F. A.

Instructor in Fine Arts
G. F. A., Ohio Northern University; Graduate in Home Economics, Penn Hall; Art Student, Drexel Institute.

ARNOLD THURBER, B. S. IN C. E.

Instructor in Civil Engineering 403 South Gilbert Street
B. S. in C. E., Ohio Northern University.

*Professors and instructors arranged according to seniority.
FACULTY COMMITTEES, 1929-30

ACADEMIC COUNCIL: Williams, Deans and Registrar.

ADMINISTRATIVE COUNCIL: Williams, Bailey, Smull, G. L. Smith

ADMISSION: Huber, Needy, Whitworth.


CATALOGUE: Freeman, Huber, Smull.


CHAPEL EXCUSES: E. V. Smith, Deming, Elliott, Whitworth.

CLASSROOM ASSIGNMENTS: Smull and Deans.


FINANCE: Williams, Smull, G. L. Smith.

GENERAL ADVISERS: The Deans.

GRADUATE INTERESTS: Weber, Binkley, Huber.

GRADUATION AND DEGREES: Whitworth and Deans.


HONORARY DEGREES: Williams, Bailey, Smull.

INTELLIGENCE TESTS: Loy, Gray, Ray, Campbell, Close.

INTERCOLLEGIATE DEBATE: Binkley, Freeman, Weber, Deming, Gray, Schieber.

LIBRARY: Gray, Freeman, Weber, Fairchild, Campbell, A. Auten.

LIFE SERVICE: Van Buren, Burke, Davis, Elliott, Potter.

LITERARY ORGANIZATIONS: Schoonover, Campbell, Binkley, Holycross, L. Freeman.

LOAN FUND: Williams, Smull, G. L. Smith.

MUSEUM: Potter, Fairchild, Dobbins, M. Auten, Geeting, Mrs. Webb.

PHYSICAL EDUCATION: Miller, Deming, Sleesman, Miss Geeting, G. L. Smith.

PLACEMENT BUREAU: Loy, Huber, Needy, Henderson, Strickling, Raabe.

SECTIONS: Whitworth, Freeman, M. Auten, Harrod, Berger, Davis.

SPECIAL ADVISERS: Physical Education, Miller; Music, Strickling; Art, Mrs. Webb; Speech, Deming.

STUDENT PUBLICATIONS: L. Freeman, E. V. Smith, Whitted, Berger, Close, McMullan, Smull.

STUDENT SOCIAL ORGANIZATIONS: E. V. Smith, Hamsher, Elbin, Lamale, Schoonover, Van Buren.


SUMMER SCHOOL: Loy, Smull, Freeman, Huber, Berger.

VOCATIONAL GUIDANCE: Gray, Holycross, Potter.
ORIGIN AND DEVELOPMENT

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 method of governing schools.” On May 19, 1885, the state issued a charter to the school under the name of Ohio Normal University.

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 and equipment belonging to the University. At the same time instruction was made departmental with the head teacher in each department as director thereof. The new charter was dated May 24, 1898.

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

LOCATION

Ohio Northern University is located in Ada, an attractive village in Hardin county, Northwestern Ohio. Lying on the great watershed that separates the tributaries of the Ohio and Mississippi from those of the Great Lakes, Ada, with its population of three thousand, has an elevation of nearly one thousand feet above sea level. For years the town has been noted for its healthful climate and its freedom from epidemics. Due to the enterprise of its citizens, Ada has nearly every modern convenience and public utility.

Situated on the trunk line of the Pennsylvania Railroad, Ada is easily accessible by rail. Railroad connection is made at Lima, sixteen miles west of Ada, with the Baltimore & Ohio and the Erie railroads; at Upper Sandusky, twenty-eight miles east, with the Hocking Valley railroad; at Forest, sixteen miles...
east with the Big Four railroad, and at Dunkirk, ten miles east
with the New York Central lines. Connection by motor busses
may be made at Marion, Kenton, and Lima, by way of the
Harding highway.

Ohio Northern’s Mission

Ohio Northern University opens her doors to all worthy
young people, especially the self-dependent, who are ambitious
to secure either a liberal or a professional education. Her purpose
has been, and is, to create and maintain an atmosphere inspira-
tional and congenial to all those whose lot in life has taught
them the worth of industry and economy. A distinct character-
istic of Ohio Northern is the spirit of democracy and good fel-
lowship among the students, many of whom are making their
own way through college. At a minimum of expense to the
student all departments provide a thorough and practical in-
struction.

Academic Standing

Ohio Northern University is a standard institution. It
holds membership in the Ohio College Association. The College
of Pharmacy belongs to the American Association of Colleges
of Pharmacy. These points are of vital importance to the pros-
ppective student who is planning his life work. The University
enjoys membership in the Association of American Colleges.

Campus Buildings and Equipment

The University owns over 100 acres of ground in and
around Ada. The acquisition of grounds for building purposes
has been uppermost in the mind of the administration, and at
present the University owns ample ground for further
expansion.

The Central Campus lies in the resident portion of Ada,
a few blocks south of the railroad. Here in this central quad-
rangle, easily accessible from any part of the village, are located
the following buildings:

Lehr Memorial, a modern three-story fireproof building,
housing the offices of the administration, the Lehr auditorium,
Young Women’s Christian Association, the Young Men’s Chris-
tian Association rooms, the social center for women, and the Northern Review office, is located in the center of the quadrangle. Lehr Auditorium, with a seating capacity of 1,600, provides an ample lecture and concert hall. It is equipped with stage settings, a pipe organ, and moving picture booths. It is in this hall that regular convocations of the student body are held. The building was erected in 1915 and dedicated to Henry Solomon Lehr, the founder of the University.

*John Wesley Hill Memorial*, a two-story fireproof building, housing the administrative offices and classrooms of the Colleges of Liberal Arts and Education, and the offices of the Alumni Secretary, lies to the north of Lehr Memorial.

*Dukes Memorial*, located at the south end of the campus, contains commodious classrooms, offices and laboratories, devoted to science, mathematics, and engineering.

*The Brown Memorial Library*, situated at the north end of the front campus, is admirably adapted to the work of a modern college. Spacious and well lighted, it is capable of accommodating two hundred students. There are also opportunities at private tables for advanced study and research.

The Library at present possesses about 15,000 live and well administered volumes, and affords opportunity for every student to find literature in his own and other fields for reference, reading, and study.

The University subscribes to all the needed reviews, magazines and newspapers so that any student may keep abreast of current knowledge and thought.

An annual appropriation for binding and for the purchase of new volumes is made in conformity with the suggestions of the standardizing associations and in harmony with the best practice of the educational world. The *University Cafeteria* is also located in this building.

*Pharmacy Hall*, situated in the northwest corner of the Campus quadrangle, is well arranged and equipped for the study of pharmacy.

Adjacent to *Pharmacy Hall* and in the rear of *Hill Memorial* is the *Power Plant*, a unit of modern design, including a large well-lighted laboratory for both Electrical and Mechanical Engineering students.
The Warren G. Harding College of Law occupies a splendid new building north of the Central Campus on the corner of Main street and University avenue. It contains five classrooms, together with a library, study room, court room and offices. This building was erected and dedicated in 1925.

The Department of Biology occupies the hall at the corner of Gilbert street and College avenue, formerly used by the College of Music. The building is a two-story structure well suited for its purpose. Near the department of Biology is an experimental Greenhouse.

**NEW BUILDINGS**

In keeping with the University's program of expansion, two new buildings have been erected within the past two years. They are the Theodore Presser Music Hall and the John H. Taft Gymnasium. They were dedicated during Commencement Week, 1929.

**PRESSER HALL**

The Theodore Presser Music Hall is unquestionably the most beautiful building on the campus. Erected the past year at a cost of $175,000, the building is now being used by the School of Music. Presser Hall is situated directly west of the main quadrangle, and faces Gilbert street. Standing upon slightly higher ground than any other building on the campus, the location enhances its architectural beauty. It is well back from the street, thereby affording opportunity for fitting landscaping. It is a three-story structure, 80x130 feet, built of red brick, with white stone trimming. In the center is an auditorium with a seating capacity of 750. Four huge columns support the architrave in front and mark the main entrance. There are also three entrances on either side of the auditorium. Six memorial gift windows adorn the auditorium. Each window commemorates the name of some musical composer in addition to the name of the donor. In the rear of the auditorium are eighteen sound-proof practice rooms and two studios, each fitted out appropriately. It is finished in dull gray which brings out the ornamental fresco work adorning the ceiling and stage. A large vestibule opens on the main auditorium. On the second floor are located the choral room and two studios. On the third floor is
the band practice room and headquarters. The graduating class of 1929 purchased a velour curtain for the stage as their memorial gift to the University. This building is made possible through the Theodore Presser Foundation.

**JOHN H. TAFT GYMNASIUM**

*The John H. Taft Gymnasium*, named in honor of the principal donor, was completed and formally dedicated May 25, 1929. It is located at the corner of Union street and University avenue, adjacent to the University Athletic Field.

This building, with a frontage of 106 feet and a depth of 132 feet, with its rugged walls, its boldness of outline, and its high gabled roofs, is a fitting specimen of Old English architecture. Built at a cost of $200,000, Taft Gymnasium is an ideal Physical Education plant, Athletic Field house and Gymnasium. The building is finished outside in rough brick, with white stone trimmings. The entrances are also of white stone.

In the Taft Gymnasium there are twenty-six rooms. In addition to the main basketball court with its galleries and bleachers having a seating capacity of 1,800, there are a volley ball court, two auxiliary playing courts, a fencing room with bleachers, examination rooms with first aid equipment, a running track, faculty club room, offices for coaches and members of the faculty of Physical Education, and the Physical Education classrooms. With the help of the Alumni Association it is aimed to have one of the most completely and adequately equipped gymnasiums in the Middle West.

Due to the high-minded loyalty and generosity of Mr. Taft and others this new gymnasium is a fact accomplished.

The cluster lights at the entrances are the memorial gift of the Class of 1928. The building is erected on ground purchased in part as a memorial gift by the Classes of 1926 and 1927.

**PROPOSED BUILDINGS**

Plans for a new Engineering building to house the laboratories and shops for the College of Engineering are being considered by an alumni committee. Plans for a Dormitory for Women are also being considered.
ATHLETIC FIELD

The University Athletic Field lies within a block and a half of the Central Campus. Here the University owns and controls 80 acres of playing ground, equipped for baseball, track, football, tennis, hockey and recreational ball.

The Football Gridiron is well drained and well surfaced, being covered with heavy sod. The running track encircles the football gridiron, and contains a 120-yard straight-a-way. It is a cinder track and is well drained. Bleachers capable of seating 4,000 line either side of the main gridiron.

Two auxiliary gridirons and the baseball diamond which has special bleachers, lie to the north of the main gridiron. To the right of the baseball diamond are nine tennis courts, kept in the best of condition by the students throughout the season.

RESIDENCES FOR WOMEN

All non-resident women students are required to live in approved houses, a list of which will be furnished upon application. Freshmen women are required to live in the Freshmen Residences.

TURNER HALL

Turner Hall, a stately residence, rich in its university associations, is assigned to Freshmen women. This home, which was built by Henry Solomon Lehr, has just come into the possession of the university from Mr. and Mrs. Perry W. Turner, in whose honor it is named. It will accommodate twenty-two women and Housemother. Throughout it has been furnished so as to make an attractive, comfortable home, all equipment being selected to meet the social and intellectual needs of the students. The rooms are beautifully equipped with single day beds (three feet, three inches in width), mattresses, pillows, ample dressers with mirrors, study tables, Windsor desk chairs, Windsor rockers, curtains, rugs. The entire house has excellent hardwood floors. Each student furnishes and launders all of her bedding, towels, dresser scarfs, and other accessories.

Residents are permitted laundry privileges, built-in tubs, pressing boards, electric iron, and a drying room, composing the equipment. Certain kitchen privileges are also permitted under the supervision of the Housemother.
Three privately owned homes will also be used in connection with Turner Hall for housing Freshmen women.

Applications should be submitted promptly.

The fraternities for women rent their own residences and maintain them under the supervision of the Dean of Women and an approved resident housemother. Freshmen women are not permitted to live in the fraternity houses.

Most of the students board at the College Cafeteria.

LABORATORIES

The various laboratories of the University have modern equipment. Special laboratories are located in the following buildings: Pharmacy Hall, Dukes Memorial, Hill Memorial, and the Power Plant.

RARE GIFT CASES

Through good will and generosity there has come into the possession of Ohio Northern University a private collection of rare geological specimens, the result of years of enthusiastic study and research on the part of the donor, Mr. E. R. Webber, of Kenton, Ohio. In the geological case are found many of the common minerals and ores, together with many rare ones; meteorites, plant and animal fossils representing several of the chief orders of geological importance; the shells and skeletons of many molluscs and vertebrates.

A valuable collection of Chinese antiques and curios also belongs to the University, the generous gift of Dr. and Mrs. M. Ross Charles, former residents of Ada, and medical missionaries to China for the past twenty-seven years.

The University is also indebted to Henry E. Neff, former instructor in the University, for a splendid collection of fowls and fishes.

These collections have been placed in suitable display cases for the pleasure, convenience, and instruction of the public as well as the student body.
GENERAL INFORMATION

Assemblies

Convocations are held each school day except Monday, from 8:30 to 9:00 a.m. The aim is not only to recognize the duty and privilege of daily devotions, but to foster a university spirit by bringing together in one assembly the students of the several departments to listen to practical addresses and talks from members of the faculty and others, and to be entertained by those connected with the departments of Music and Speech. Attendance is compulsory. One-fifth credit hour demerit for each absence above five.

Moral and Religious Culture

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

Although the University is the property of the Ohio Conference of the Methodist Episcopal Church, it is in no sense sectarian. Students of all religious denominations are received on equal terms and treated with equal consideration. They are urged to identify themselves with the work and participate regularly in the services of the church of their choice. The six churches of the city cordially welcome students to their religious and social meetings and Bible classes. The following denominations are represented: Methodist Episcopal, Presbyterian, Lutheran, Church of Christ, Baptist, and Roman Catholic.

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

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

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

A devotional meeting open to all the University women is held weekly. At the beginning of each quarter Bible and Mission study classes are organized under efficient teachers.
Both the Y. M. C. A. and Y. W. C. A. Bible study classes and religious meetings are open respectively to all men and women enrolled in the University.

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

LECTURES AND CONCERTS

It has been the aim of the University to secure the best talent in the lecture and music field and to present at least two numbers each quarter of the year. The following is a list of numbers which appeared on the program last year:

Lectures

Count Felix von Luckner
Dr. Irving Langmuir
Dr. Edmund D. Soper
Dr. R. N. Maxson
Dr. A. P. Mathews
Dr. Harry F. Lewis
Dr. Harry N. Holmes
Dr. W. M. Burgess
Dr. R. B. Moore
Dr. H. L. Johnson
Dr. H. F. Krieger
Prof. J. G. Collicott
Hon. Myers Y. Cooper
Fielding H. Yost
Dr. James Francis Cook
Dr. Robert H. Ruff

Prof. R. E. Offenhauer
Dr. James A. Burns
Hon. Wade H. Cooper
Dr. Audrey A. Potter
A. Earl Kernahan
Frank E. Gordon
Dr. E. E. Lewis
Dr. Stephen K. Mahon
Dr. Mortimer Bye
Dr. Robert J. Ruth
Dr. L. K. Darbaker
Ralph Parlette
Dr. Charles A. Kieth
Dr. Charles A. Platt
Hon. Frank B. Pearson
Hon. John L. Clifton

Concerts and Recitals

Heidelberg Chorus
Bromley and Hughes
Zimmer Harp Trio
Lychenheim Trio
Jugo-Slav Tambourica Orchestra

Jesse Rae Taylor Company
French Sisters
Fads and Fancies of 1929
Elijah and The Messiah
Herbert Wall
Marion Lehne

Entertainment

Japanese Players
George Staples
Carl A. Sundberg

Skidding
Sun Up
MUSICAL ORGANIZATIONS

Choral Society. The Ohio Northern University Choral Society is made up both of University students and townspeople, and membership is open to all who love and appreciate good music. Last year the members of the Choral Society carried off the Ladies' Chorus competition and the Alto Solo competition at the Annual Community Eisteddfod held in Kenton, Ohio. The Eisteddfod will be held this year in Lehr Auditorium on February 22.

Men's Glee Club. A glee club of twenty-five voices is organized each year for the purpose of giving home concerts and touring the state. In the annual Intercollegiate Men's Glee Club contest held at Capital University, Columbus, last March, Ohio Northern's Glee Club defeated every other college in Ohio and bowed only to the glee club from Ohio State. The score on the contest was Ohio State 210, Ohio Northern 196.

Women's Glee Club. This club is organized to give home concerts and tours. Last year Ohio Northern's Girls' Glee Club participated in the Intercollegiate contest held at the University of Cincinnati. Ohio Wesleyan won the contest with a score of 93. Ohio Northern came second with a score of 88.

Preceding and following the contest the girls gave concerts in Dayton, Piqua, Sidney, and Troy. They also broadcast from station WLW at Cincinnati.

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

University Band. Ohio Northern has a fine band of seventy members. Competition for the band is keen and a beginner's section is maintained throughout the year. The band affords a splendid opportunity for practice to students playing brass or reed instruments. The band gives concerts in their statewide tours. A concert is also given in Lehr auditorium each quarter.

DEBATING AND DRAMATICS

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

The Dramatic Club, sponsored by the Department of Expression, presents two or three plays each year. Enrollment in this club is open to all students in the University who pass the try-outs. The following major productions were presented during the past year:

The Arrival of Kitty, Taming of the Shrew.

Technical Organizations and Literary Clubs

The following technical organization have regular meetings:

The Ohio Northern Mathematical Society.
The American Institute of Electrical Engineers.
The American Society of Civil Engineers.
The American Society of Mechanical Engineers.
The American Chemical Society.
The Chemical Engineering Society.
The Pharmaceutical Association.
The Law Association.
The Educational Association.
The Pre-Medical Association.
The Pre-Law Association.

Topics pertaining to the several departments are discussed, and addresses are given by people prominent in their respective fields.

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

The Radio Club, composed of those students interested in radio, owns and operates a relay station, receiving and sending set.
The Press Club is made up of all students interested in journalism. Opportunity for actual practice is gained by work on the Northern Review, official publication of the students of the University. Meetings are held once a week, on Wednesday evening. At these meetings experienced newspaper men address the members of the club on phases of journalistic work.

The Poetry Club is composed of those students interested in poetry. Creative work is reviewed by the members of the club in their monthly meetings. This year the Poetry Club is sponsoring a Prize Song Contest. Members of the club are encouraged to offer their poems for publication.

The French Club is compulsory for all students who are taking courses in French. Meetings are held regularly by the members of the club, and keen interest in the study of France is aroused by short papers, readings in French, reviews, and pageants.

The Social Science Club is composed of all students in the department of social science. Topics of the day are discussed at the regular monthly meetings.

The Commercial Club.

The State and County Clubs.

HONOR SOCIETIES

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

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

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

Kappa Kappa Psi—A national honorary band organization to encourage study in this phase of musical endeavor.

Sigma Chapter, the eighteenth of twenty-eight active chapters, was installed in May, 1927. To those who have completed four years' service in the band a gold key is given, the award being made at the formal spring concert and presented by the President of the University.
*Sigma Kappa* is an honorary foreign language fraternity, open to superior students from all language fields, who have done very good work in the language in which they major and above average in all subjects, and who hold a standard of 1.75 credit points.

**FRATERNITIES**

This group comprises seven national social fraternities, three national professional fraternities, and one local social fraternity for men and four local fraternities for women.

**PUBLICATIONS**

The *Annual*, a sumptuous volume published by each outgoing class, is always awaited with eagerness and treasured as a souvenir of college days.

The *Northern Review* is the college paper. It is published during the first three quarters by the students of the University.

**ATHLETICS**

Ohio Northern is a member of the Ohio Athletic Conference and is represented by strong teams in football, basketball, baseball, and track. A well-rounded program of intramural sports is carried out, under proper direction, which aims to provide some form of activity for each student. The completion of the new Taft Gymnasium and recent additions to the athletic fields provide Ohio Northern with facilities for all forms of sports.

The Department of Physical Education, in addition to being a service department for the entire University, is accredited by the State Department of Education for the training of teachers of Physical Education.

A fee of $2.00 per quarter is charged for the use of the gymnasium, including locker. Upon payment of tuition, each student receives a ticket entitling him to admission to all conference games.

For description of courses in Physical Education, see Physical Education section of this catalogue.

**ENDOWED SCHOLARSHIPS**

The interest on $2,500.00 will provide tuition expenses of a student. The University has two such scholarships in addition to others of smaller denominations, all of which are aiding
worthy students to better prepare themselves for life's work. The amount shown in parentheses represents the fund donated and invested by the University in perpetuity.

1. The Mr. and Mrs. Serge F. Edwards Scholarship ($2,500.00) provides an annual income of $125.00. The beneficiary to be chosen by the donors from the graduates of the Leipsic High School.

2. The Mrs. J. H. Edwards Scholarship ($2,500.00) provides an annual income of $125.00. The beneficiary to be a student preparing for the ministry or some other special work of the church.

3. The George Franklin Getty Scholarship ($1,000.00) provides an annual income of $50.00.

4. The James E. and Caroline Purvis Scholarship ($1,000.00) provides an annual income of $50.00.

5. The Ralph Parlette Scholarship ($1,000.00) provides an annual income of $50.00.

6. The Pleasant Hill Society of the Roundhead Circuit of the M. E. Church Scholarship ($1,000.00) provides an annual income of $50.00.

**UNENDOWED SCHOLARSHIP**

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

The recipients of these incomes may be chosen by the donors and when not so chosen, shall be selected by the President and faculty of the University.

**LOAN FUNDS**

A limited number of worthy students, members of the Methodist Episcopal Church, may secure loans from the Student Loan Fund administered by the Board of Education of that Church. Christian character, satisfactory scholarship, promise of usefulness, financial responsibility, and the recommendation of the church to which the applicant belongs are essential to a loan. Each borrower must sign an interest bearing promissory note. Detailed information may be secured from the University Treasurer.
The International Club maintains an Emergency Loan Fund for benefit of any of its members who may be temporarily embarrassed. This fund is kept on interest in the Building & Loan and controlled by a Faculty Advisory Committee and the Executive Committee of the club. Dean Needy is faculty treasurer.

Self-Help

It is strongly recommended that every student entering the University should arrange to finance at least one quarter's expenses before entering. This will afford the student an opportunity to come in personal touch with the employers of Ada and provide ample time to begin his academic or professional work.

General and Departmental Prizes for Scholarship

General Prizes

The Crile Prize of $25.00, awarded to that Senior who has the highest number of quality points per credit hour in the University.

Mr. Charles S. Ashbrook, of Elyria, Ohio, gives a medal to the pharmacy graduate having the most quality points.

Mr. G. Frederick Pfeiffer of Akron, Ohio, gives $25.00 a year to the engineer making the most quality points. The Alpha Phi Gamma offers short story prizes of $15.00 and $10.00.

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

The E. C. Edwards Departmental Prizes

1. Department of Biblical Literature. A prize of $25.00, awarded for excellence in scholarship in English Bible.

2. Department of Biology. A prize of $25.00, awarded for excellence in Biology.

3. Department of Chemistry. A prize of $25.00, awarded to the student who excels in scholarship, based upon meritorious work in classroom and laboratory.
4. Department of Economics and Business Administration. A $25.00 prize, awarded each year to the student of junior or senior rank, majoring in Economics and Business Administration, who has the most quality points per hour.

5. Department of English. Two prizes are awarded to students majoring in English, for the two Familiar Essays which rank first and second in originality, thought, and composition. First prize, $15.00; second prize, $10.00.

6. Department of History. A prize of $25.00, awarded to the student who has maintained a creditable standing and who has submitted the best essay on a subject approved by the department.

7. Department of Latin. Two prizes, awarded to students of Latin Language and Literature. First Prize of $15.00 to the student presenting the best essay on some historical or literary topic related to the course in Latin that he is pursuing. Second prize of $10.00 for the next best essay on a similar topic.

8. Department of Mathematics. A prize of $25.00, awarded to juniors and seniors majoring in Mathematics. The award will be based upon (1) the greatest advancement made by the student during two consecutive years and (2) the best thesis of not less than two thousand nor more than three thousand words upon some phase of mathematics, either in the pure or applied field.

**University Prizes**

1. Two prizes, one of $15.00 and one of $10.00, are awarded by the French Club to the two students in French making high scholarship in French.

2. Department of Political Science. A prize of $25.00 awarded to the student who submits, during the college year, the best term paper, an independent study or essay on some subject in the field of political science. This is open only to students taking courses in the Department of Political Science.

3. Department of Speech. A prize of $25.00, awarded to the student in the Department of Speech who excels in classroom work and University dramatics.
PRIZES IN DEBATE AND ORATORY

The Ramey Oratorical Prizes, given by the Hon. Homer A. Ramey: first, $15.00; second, $10.00, for men. The winner of the contest to represent the University in the state contest.

The Jennie Bowman Oratorical Prizes, given by Professor James Cloyd Bowman: first, $15.00; second, $10.00, for women. The winner to represent the University in the state contest.

The Hoskins Debate Prize, given by the Hon. S. A. Hoskins: first, $15.00; second, $10.00, for men. The prizes to go to the two best individual debaters.

The George F. Getty Debate Prize, given by Mr. George F. Getty: first, $15.00; second, $10.00; for women. The prizes to go to the two best individual debaters.

The S. A. Hoskins Declamation Prize for Freshmen: men and women. First, $15.00; second, $10.00.

EXPENSES

No matriculation or entrance fee is required to enter the University.

TUITION

Tuition for instruction in the University is $55.00 per quarter, payable in advance. These charges admit a student to enrollment and instruction in all the colleges of the University (with the exception of the course in Public School Music.) No extra fees are charged in any college for work taken in regularly constituted courses.

ACTIVITY FEE

A student activity fee of $5.00 per quarter is charged at the time tuition is paid. This fee is not refundable, and includes admission to all athletic contests, concerts, lectures and debates; subscription to the Northern Review and the Northern Annual, and also covers the Y. M. C. A. and Y. W. C. A. fees.
# SUMMARY OF TUITION AND OTHER FEES

**One Quarter — Twelve Weeks**

<table>
<thead>
<tr>
<th>Tuition for 11 to 16 credit hours—</th>
<th>$55.00</th>
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</thead>
<tbody>
<tr>
<td>Liberal Arts</td>
<td>$55.00</td>
</tr>
<tr>
<td>Education</td>
<td>$55.00</td>
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<tr>
<td>Engineering</td>
<td>$55.00</td>
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<tr>
<td>Law</td>
<td>$55.00</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>$55.00</td>
</tr>
<tr>
<td>Music—B. S. in Music</td>
<td>$75.00</td>
</tr>
<tr>
<td>Public School Music—B. S. in Education</td>
<td>$75.00</td>
</tr>
</tbody>
</table>

**FEES—**

| Biology 101, 102, 103, 106, 107, 108, 109, 218, 250 | $3.00 |
| Biology 113                                         | $5.00 |
| Biology 222                                         | $3.50 |
| Chemistry 101, 102, 103, 101a, 102a, 103a          | $4.00 |
| Chemistry 104, 105, 106, 107, 108, 109, 211, 215, 216, 217, 250 | $5.00 |
| Physics 104, 105, 106, 109, 110, 111, 216, 217, 218, 250 | $3.00 |
| Physical Education                               | $2.00 |
| Engineering                                       |        |
| Surveying I, II, III                              | $2.50 |
| R. R. Engineering I                               | $2.50 |
| Mechanical Eng. Lab. I, II                        | $3.00 |
| Elem. Elec. Lab. I, II, III                       | $4.00 |
| Electrical Machines                               | $5.00 |
| Machine Shop                                       | $3.00 |
| Testing Materials                                 | $3.00 |
| Elec. Power Plant (per credit hour)               | $1.00 |
| Pharmacy                                          |        |
| Physiology                                         | $1.00 |
| Pharm. Botany I, II                               | $1.00 |
| Pharmacognosy I, II, III                           | $1.00 |
| Pharmacy (all laboratory courses)                  | $4.00 |
| Practice Teaching                                 | $15.00 |
| Public School Music                               | $1.00 |
| Change of Schedule                                | $1.00 |
| Diploma                                           | $10.00 |

In addition to the above non-returnable fees in Chemistry and Pharmacy, a breakage ticket, costing $1.50 to $5.00 must be purchased to reimburse the department for broken apparatus and non-returnable chemicals and supplies. The unused portion of the ticket will be refunded to the student upon completion of the course.

**MUSIC (Private Lessons)**

| Voice, Piano, Organ, Violin, Reed or Brass        | $36.00 |
| Two lessons per week                              |        |
| One lesson per week                               | $21.00 |
| Single lesson                                     | $2.00 |
| Theory                                            |        |
| Two lessons per week                              | $9.00  |
| Three lessons per week                            | $13.00 |
High school students will be charged $30.00 per quarter for two lessons per week, and $16.00 per quarter for one lesson per week; single lesson $1.50.

Junior students (pre-high school age) will be charged $22.00 per quarter for two lessons per week, and $12.00 per quarter for one lesson per week; single lesson $1.25.

\[
\begin{align*}
\text{Piano Rent (one hour per day)} & \quad 3.50 \\
\text{Organ Rent (one hour per day)} & \quad 12.00
\end{align*}
\]

No diploma, certificate, transcript, letter of honorable dismissal or recommendation will be granted to students who have an unadjusted indebtedness to the University.

A student suspended or dismissed from college, or withdrawing when under investigation for misconduct, is not entitled to any refund of tuition.

Students failing to pay tuition on the assigned days will be penalized $5.00. This does not apply to new registrants.

A refund of 80% will be made on *Tuition Only* to students withdrawing from the college within two weeks from registration date. No refunds are made on fees.

### ROOMS AND BOARD

Rooms are available in Ada at very reasonable prices, ranging from $2.00 to $3.00 per week. Board may be secured at prices from $4.50 to $6.00 per week.

Very many students, when members of fraternities or sororities, find comfortable room and board in the various fraternity and sorority houses.

Rooms in Turner Hall are $36.00 a quarter for each student, payable in advance. A deposit of $5.00 should be sent with the application. This deposit will be kept as a fee to cover breakage until the end of the college year or until the expiration of residence. No room will be leased for less than one quarter.

**Note:** Immediately upon arrival, women should report to the Dean of Women and men to the Dean of Men or to the Secretary of the Young Men's Christian Association at the association rooms for an official list of recognized householders. Women are required to furnish their own linens.
ADMINISTRATION

Anyone planning to enter the University and desiring to arrange matters in advance should address: Office of the President, Ohio Northern University, Ada, Ohio.

Graduates of first grade high schools, approved academies, or preparatory schools, who present fifteen certified and properly distributed units will be admitted to any of the colleges of the University except the College of Law. (See individual college section for proper distribution of units and other entrance requirements.)

Only men and women of good moral character are admitted to the University. Students submitting transcripts from other colleges or universities must furnish evidence of honorable dismissal. Work from schools of lower rank will be evaluated by the Committee on Admissions. Students transferring from another school will not be granted admission in the absence of official transcript.

The credited statement of entrance units sent by the principal of the school directly to the University must be in the office of the University Entrance Examiner at least ten days prior to the opening of the quarter, to avoid delay in registration.

Students who are deficient in credits may take entrance examinations the first day of the quarter if they make application in advance.

Mature students not working for a degree may be admitted to the University provided they give satisfactory evidence that they are qualified to pursue the subjects in which they are interested. If such “special students” desire to become candidates for a degree they must qualify before the end of the first year’s residence.

REGISTRATION

The registration days for each quarter are indicated in the Calendar (see page 5). Failure to register on these days will subject the delinquent to the penalty of a $5.00 fee for late registration.
PRE-REGISTRATION

Upon receipt of a high school transcript with a deposit of $5.00 (which will be credited to tuition charges) an entrance card will be mailed the applicant together with a questionnaire to ascertain such facts as the Dean may need to arrange the applicant's schedule prior to the day of his admission.

The tenth week of each quarter is set aside for arrangement of classes for the following quarter. The student is given a registration card which he carries to his faculty adviser. The adviser directs what subjects are to be pursued during the quarter and indicates these together with his approval on the registration card. Sections are assigned by the sectioning committee, and final approval of the schedule is given by the Dean. Finally the student presents his card to the Treasurer for payment of fees.

FAILURE TO PRE-REGISTER

Preregistration not only consists in procuring a registration card from the registration secretary, but also in completing the student's schedule by the adviser on the same day the card is procured.

Students failing to preregister on the day assigned will be penalized $1.00 per day for each day's delay unless more than two quarters intervene. This does not apply to new registrants.

The Deans and Advisers will be in their offices from 9:00 A. M. to 5:30 P. M. on the first two days of each quarter for conference with students.

ADVISERS

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

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

After completing 90 quarter hours the student must elect the department in which he desires to major, and the professor in charge of that department then becomes his adviser.
GOVERNMENT

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

Self-government is made the keynote in discipline. Every possible help is offered in the formation of right habits, but those who cannot govern themselves are not wanted. We have the ideal of a clean cultural Christian University and our purpose is to make manhood and not mar it. With this objective in mind the Board of Trustees, among other things, definitely forbids the use of tobacco on the University grounds, frequenting pool rooms, dancing, use of intoxicating liquors, operating an automobile without consent of University officials, affiliating with an organization not having Faculty recognition, and fraternity pledging prior to the legalized period.

CLASS ABSENCES

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

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

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

No class absences are excused above twelve except those incurred by students granted permission by the Registrar in advance to represent the University in some public collegiate event.
Students who are absent from classes more than five consecutive school days for reasons unavoidable must interview their Dean and make application for reinstatement to classes. The number of hours that the student will be permitted to carry during the remainder of the quarter will depend upon the character and nature of the work done prior to the incurred absence. A written statement explaining the absence must be filed with the Dean.

Absence during the two days preceding or the two days following a holiday shall count double. This is also true of "week-end" absences from Friday morning to Monday evening.

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

Five absences are allowed from chapel attendance, after which the rule becomes effective. Term excuses from chapel are at the discretion of the Committee on Chapel Excuses and must be procured during the first week of the quarter. Under no circumstances will any chapel excuses be honored for absences incurred prior to date of approval of petition.

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

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

**WITHDRAWING A COURSE**

The student is held responsible for the work scheduled on the registration card. No course may be dropped or changed except by consent of the Dean and the instructors concerned. Withdrawal from a course without permission shall be checked as a failure in the course.

In case a student desires to drop or change a course, it must be done within the first week of the quarter, and with the consent of his Dean and the professor concerned.

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

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

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

To be eligible for the office of President or Vice President of the Sophomore, Junior or Senior Class, Editor or Business Manager of the Northern Review, Editor or Business Manager of the University Annual, Student Member of the Discipline Board, President of the Y. M. C. A. or Y. W. C. A., the candidate must have a scholarship rating of at least one and one-half (1½) quality points per hour.

All students will be received and dismissed at the discretion of the President and Committee on Discipline.

*Parents living a short distance from Ada are urged not to interfere with the work and progress of the students by encouraging or permitting frequent visits home. This also refers to week-end "hiking."

GRADE MARKS AND QUALITY POINTS

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.

The following grade and point system is in effect:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Significance</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>3</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>Fair, average</td>
<td>1</td>
</tr>
<tr>
<td>D</td>
<td>Passing, but unsatisfactory</td>
<td>0</td>
</tr>
<tr>
<td>F</td>
<td>Failed</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Absent from examination</td>
<td></td>
</tr>
</tbody>
</table>
EXAMINATIONS

1. Mid-term examinations are held at the discretion of the instructor. Three days are given at the close of each quarter for final examinations.

2. All students must be present at final examinations. Absence from any final examination, unless caused by sickness or other unavoidable conditions, will result in no credit for the course.

3. A student absent from examination may, on presenting a satisfactory excuse, receive permission from the Dean to take the examination at a later time.

4. All required courses in which a grade of F is made must be taken again in class the first quarter in which the subject is given after the failure occurs.

5. All incompletes must be removed within eight weeks of the beginning of the next quarter in attendance in order to obtain credit without again taking the work in class. In case this matter is not attended to, the mark will lapse into a failure.

ORGANIZATION FEATURES

The University year is divided into four “quarters” of equal length—designated the Fall, Winter, Spring and Summer Quarters. Early in the Fall Quarter the Sophomore, Junior, Senior, and Freshman classes are formally organized under the direction of a member of the faculty. Class standing is determined upon quarter hours and quality points. Each student is required to present a certificate from the registrar showing his eligibility to participate in class organization and honors.

During the Summer Quarter work will be given by the regular faculty of the University in all departments except the College of Pharmacy. In 1930 the Summer Quarter commences June 9 and ends August 23; the first term beginning June 9 and ending July 18; the second term beginning July 21 and ending August 23. Students should register on or before the opening day of each term.

DEPARTMENTS OF INSTRUCTION

The organization of the departments of instruction in the University is as follows:
The George Franklin and Sarah Catherine Getty College of Liberal Arts, including:
(a) Division of Teacher Training.
(b) A. D. Juilliard Department of Music.
(c) Department of Physical Education.

The College of Engineering.
The College of Pharmacy.
The Warren G. Harding College of Law.

DEGREES

The work of the University is entirely undergraduate.

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

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

The Bachelor's degree is given in all the 186-hour courses of the University, except Law (133 hours) and Engineering (216 hours).

A diploma is given in the two-year course in Education and the three-year course in Pharmacy.

Degrees are conferred at the commencement exercises which are held at the close of the Spring Quarter. Those who have finished their work at the close of any previous quarter are expected to be present at the commencement exercises. Those whose work will be finished by the close of the Summer Quarter are entitled to all of the privileges of the graduating class, but their diplomas are not issued until the requirements for graduation are fully met.
Ohio Northern University is proud to have its College of Liberal Arts bear the honored names of

GEORGE FRANKLIN GETTY and SARAH CATHERINE GETTY

These graduates of its early history have won, by their character and achievements, the highest success in life and have remembered, in great love and generosity, their Alma Mater
ADMISSION TO COLLEGE OF LIBERAL ARTS

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

1. Certificate. Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. These certificates must be made out and signed by the proper official of the school from which the applicant comes, and sent by him directly to the University. Blanks for this purpose may be had by addressing the University Entrance Examiner.

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

3. Advanced Standing. An applicant from another college seeking advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, and (3) an official transcript of his college record.

Advance credit will be given for not more than 135 quarter hours (90 semester hours), exclusive of physical education.

4. Special Student. Mature persons without special preparation not desiring to earn a degree may enter any department and pursue the studies they choose, if, on 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.

ENTRANCE REQUIREMENTS

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

**Distribution of Entrance Units**

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

1. The following 9 units are prescribed for all:

   **English**, 3  
   **Mathematics**, 2 (Algebra and Geometry)  
   **Foreign Language**, 2, (which must be in one subject)  
   **History**, 1  
   **Science**, 1

2. At least 4 additional units must be selected from the following subjects, the number indicating the maximum number of units that will be accepted in any subject:

   **English**, 4  
   **Greek**, 3  
   **Latin**, 4  
   **French**, 3  
   **German**, 3  
   **Spanish**, 3  
   **History and Civics**, 4  
   **Mathematics**, 3  
   **Economics**, 1  
   **Physics**, 1  
   **Chemistry**, 1  
   **Botany**, 1  
   **Zoology**, 1  
   **Physiography**, 1  
   **Agriculture**, 1  
   **General Science**, 1  
   **Sociology**, 1  
   **Bible**, 1

3. Not more than 2 units may be presented from the following subjects:

   **Mechanical Drawing**, 1  
   **Freehand Drawing**, 1  
   **Stenography** (if full unit), 1  
   **Domestic Science**, 1  
   **Bookkeeping**, 1  
   **Music**, 1  
   **Manual Training**, 1  
   **Commercial Law**, 1  
   **Commercial Geography**, 1

**Requirements for Graduation**

**Prescribed Courses**

Three courses are constants for all students who are candidates for the Bachelor of Arts degree.
1. **English Composition** 9 Hrs.
   Must be scheduled during the freshman year. Only three hours accepted toward a minor in English.

2. **Bible** 6 Hrs.
   May be scheduled during freshman or junior year.

3. **Physical Education** 6 Hrs.
   Two hours of practice per week are required of each student during the first six quarters of residence. One hour credit each quarter.

**Group Electives**

In order that the curriculum may be broad and cultural, yet flexible enough to allow preparation for the various professions and needs of life, five group electives are listed from which the student must choose the number of hours indicated under each group.

At the close of the sophomore year all, or nearly all of the prescribed and group elective courses should have been completed. The last two years may then be given to the major and minor.

1. **English Literature and Speech** 9 Hrs.
   Elections may be made from either English Literature or Speech, or from both.

2. **Foreign Languages** (*Latin, Greek, French, German, Spanish)* 9 to 18 Hrs.
   Students presenting as entrance three or four units in one language may complete the requirement by electing 9 hours in the same or another language. Students presenting two foreign languages with two units in each may meet the requirement by electing a year course of 9 hours in one of these or another language. Those presenting two units in one language must elect 18 hours in the same or another language. In case only one unit of any language is offered as entrance it must be followed by a year course in the same language. If no foreign language is presented the requirement may be met, without loss of credit, by election of not less than 27 hours of foreign language during the freshman, sophomore and junior years.

3. **Sciences** (*Botany, Zoology, Chemistry, Physics, Mathematics*) Not less than 18 Hrs.
   Mathematics may be taken as an alternative for a year course in science. Complete year courses must be elected from two fields.

4. **Social Sciences** (*History, Economics, Political Science, Sociology*) 18 Hrs.
   Electives are to be chosen from two fields, with the completion of a year course in each.
5. PHILOSOPHY (Psychology, Philosophy) 3-5 Hrs.
The five hours may be elected from a single field.

MAJOR AND MINOR

The candidate for a degree must complete in a logical sequence a major of not less than 36 quarter hours and a minor of not less than 24 quarter hours. In addition to the required courses and the major and minor courses, the student must select enough free electives to bring the total up to 186 quarter hours. Candidates for the Bachelor of Arts degree who expect to teach in the public schools must meet the major and minor requirements as specified in the Division of Teacher Training.

To aid the student in planning major and minor courses, the following groups are set forth as being suggestive.

1. Major: Ancient Languages
   Minors: English, Modern Language, History
2. Major: Biblical Literature and Religion
   Minors: Psychology, Education
3. Major: Biology
   Minors: Chemistry, Physics Mathematics
4. Major: Chemistry
   Minors: Biology, Physics, Mathematics
5. Major: Economics and Business Administration
   Minors: Political Science, History, Psychology
6. Major: English
   Minors: History, French, Latin
7. Major: History
   Minors: Economics, English, Political Science
8. Major: Mathematics
   Minors: Physics, Chemistry
9. Major: Modern Languages
   Minors: Ancient or Modern Language, History, English
10. Major: Music
    Minors: English, Modern Language, Speech
11. Major: Physical Education
12. Major: Physics
    Minors: Chemistry, Mathematics, Biology
13. Major: Political Science
    Minors: Economics, History
14. Major: Psychology and Sociology
    Minors: Bible, Education, Biology
15. Major: Speech
    Minors: English, Music

CONDITIONS OF GRADUATION

As a condition of graduation, a student must complete 186 quarter hours, including six hours of physical education, this being the equivalent of fifteen or sixteen class exercises a week for twelve quarters. The student must have an average scholarship rating of at least one quality point for each credit hour.
A residence period of three quarters and the completion of 45 quarter hours, elected largely from "200" courses, in the College of Liberal Arts of this University are minimum requirements for a student admitted on advanced standing.

Students of unusual ability may, with the consent of the faculty of the College of Liberal Arts, complete their work in eleven quarters. Applicants for this privilege must have an average of 2.6 quality points per hour.

**GENERAL REGULATIONS**

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

2. No course in which a student has received a grade of D is accepted toward a major.

3. Study the absence rule in general section of catalogue. The student is expected to report to the Dean if absent from classes more than five consecutive school days.

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

5. Seniors taking certain Freshman courses are not given full credit. Courses not carrying full credit are: Bible 101-103, Chemistry 101a-103a, History 101-103, Latin 101-103, and Mathematics 101a-103a.

6. Juniors and seniors are requested to schedule a majority of their courses from the "200" group.

**SENIOR HONORS**

Two kinds of senior honors are recognized and conferred at graduation: honors *(with distinction)* granted to those who have a quality point average of 2.3 with no grade below D; and honors *(with high distinction)* granted to those who have a quality point average of 2.6 with no grade below C. These honors in scholarship are recorded on the diplomas, recognition is given at commencement, and the names of the recipients are printed in the catalogue. To receive senior honors a student must be in residence at Ohio Northern at least nine quarters.
COURSES OPEN TO FRESHMEN

Accounting 101-103  
Bible 101-103  
Botany 107-109  
Chemistry 101a-103a  
Chemistry 101-103  
Education  
English 101, 102, 102a  
French 101-103  
French 105-111  
(as prepared)  
German 101-103  
German 105-107  
(as prepared)  
Greek 101-103  
History 101-103  
History 113-115  
Latin 101-103  
Latin 104-110 (as prepared)  
Mathematics 101a-103a  
Mathematics 101-103  
Music  
Physical Education  
Spanish 101-103  
Spanish 105-107 (as prepared)  
Speech 101-103  
Zoology 101-103

SUGGESTED SCHEDULE OF PRESCRIBED AND GROUP ELECTIVE COURSES

The following is a schedule of the prescribed and group elective courses arranged by years. Students with special objectives may find it necessary to vary from this outline.

First Year

English 101, 102, 102a  
Science (Botany, Chemistry, Zoology)  
or Mathematics 101a, 102a, 103a; 101, 103, 105  
Foreign Language  
History 101, 102, 103; 113, 114, 115  
Bible 101, 102, 103  
Elective

Second Year

English 121, 122, 122a; 106, 107, 108  
or Speech 101, 102, 103; 110 111  
Foreign Language (if not Completed)  
Science or Mathematics (unless requirements were met during first year)  
Political Science 101, 102, 103, 104  
or Economics 121, 122, 123  
Electives

Note: Students preparing to teach should elect psychology during second year.

Third Year

Complete prescribed courses and any other group electives that may remain. Major and minor courses complete the schedule. Students preparing to teach must elect courses in education.

Fourth Year

Completion of major and minor and free electives.

NOTE: By continuing in residence during the Summer Quarters the entire college course may be completed in three years. Many of the Summer Quarter courses are electives.
PRE-PROFESSIONAL COURSES

PRE-MEDICAL COURSE

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

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

The collegiate courses which are required of pre-medical students are indicated in the following curriculum:

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>French or German</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 101</td>
<td>5</td>
</tr>
<tr>
<td>Biology 101</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
</tr>
<tr>
<td>English 102a</td>
</tr>
<tr>
<td>French or German</td>
</tr>
<tr>
<td>Chemistry 103</td>
</tr>
<tr>
<td>Biology 103</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Biology 106</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 107</td>
<td>5</td>
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<tr>
<td>Physics 109</td>
<td>5</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
</tr>
<tr>
<td>French or German</td>
</tr>
<tr>
<td>Physics 111</td>
</tr>
<tr>
<td>Psychology 104 or 210</td>
</tr>
<tr>
<td>Elective</td>
</tr>
</tbody>
</table>
Students who expect to enter Medical Colleges that require Latin for admission should plan to complete two units of Latin while in the high school, or the equivalent in Ohio Northern, in addition to the above courses. Suggested elective subjects are: English, history, sociology, political science, mathematics, and philosophy.

**Arts-Medicine Combination Course**

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

The following regulations obtain:

1. At least 140 quarter hours, exclusive of physical education, are required, which must include the required and group elective courses for the Bachelor of Arts degree.

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

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

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

5. Certificate of completion of the first year's work in the medical school must be filed.

**Pre-Dental Course**

Most dental schools require two years of collegiate work, known as pre-dental years, consisting of at least 90 quarter hours (60 semester hours), in addition to the completion of 15 units of high school work. The required courses are incorporated in the two-year curriculum outlined below. Suggested electives are political science, mathematics, English literature or speech, drawing, ethics, psychology and history.
First Year

FALL QUARTER                      WINTER QUARTER
Physical Education  1            Physical Education  1
English 101          3            English 102        3
Chemistry 101         5            Chemistry 102      5
Biology 101           3            Biology 102        3
Electives             5-6          Electives          5-6

SPRING QUARTER
Physical Education  1
English 102a         3
Chemistry 103         5
Biology 103           3
Electives             5-6

Second Year

FALL QUARTER                      WINTER QUARTER
Physical Education  1            Physical Education  1
Chemistry 107          5            Chemistry 108      5
Physics 109            5            Physics 110        5
Biology 106            5            Electives          5-6

SPRING QUARTER
Physical Education  1
Physics 111           5
Ethics                3
Electives             7-8

ARTS-DENTAL COMBINATION COURSE

Upon the completion of nine quarters of work in the College of Liberal Arts, the student may be granted a leave of absence for the senior year, and receive the Bachelor of Arts degree upon the successful completion of the first year of work in the dental school. These nine quarters of work must total 140 hours, including the required and group elective courses.

The general regulations are the same as for the Arts-Medicine combination course.

ECONOMICS AND BUSINESS ADMINISTRATION COURSE

Students majoring in economics and business administration should select a minor closely related to their major subject. Those preparing for graduate study in either economics or business administration should maintain a high scholastic record. It is especially important that their work in economics and business administration be of high quality.

Courses of special interest to business students are distributed throughout the four years so that some may be taken
during each year of residence. This provision will appeal to those students who will be able to attend college for one or two years only before securing a position to earn sufficient funds to pay their way through the remainder of their college course.

Business experience acquired during vacations will be of value to the student in pursuing his academic work. It will also enable him to secure a better position after completing his college course. In seeking employment, either during vacations or at the end of the college course, the student should bear in mind that in the long run the quality of the experience acquired will be of greater importance than the remuneration. Therefore, he should endeavor to secure that type of employment which offers the greatest possibility for growth.

The curriculum of Economics and Business Administration follows.

**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Accounting 101</td>
<td>Accounting 102</td>
</tr>
<tr>
<td>Biology 101</td>
<td>Biology 102</td>
</tr>
<tr>
<td>Mathematics 101a or 101</td>
<td>Mathematics 102a or 103</td>
</tr>
<tr>
<td></td>
<td>3-5</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

<table>
<thead>
<tr>
<th>Physical Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 102a</td>
</tr>
<tr>
<td>Modern Language</td>
</tr>
<tr>
<td>Accounting 103</td>
</tr>
<tr>
<td>Biology 103</td>
</tr>
<tr>
<td>Mathematics 103a or 105</td>
</tr>
</tbody>
</table>

**Note:** Mathematics may be taken during second year. Chemistry may be elected instead of Zoology, if desired.

**Second Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Speech 110</td>
<td>Speech 111</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>Political Science 102</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td></td>
<td>3-4</td>
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</tbody>
</table>

**SPRING QUARTER**

<table>
<thead>
<tr>
<th>Physical Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech 103</td>
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<tr>
<td>Modern Language</td>
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<tr>
<td>Economics 123</td>
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<tr>
<td>Political Science 103</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>
### Third Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 204</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>5</td>
</tr>
<tr>
<td>Bible 201</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 201</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 203</td>
</tr>
<tr>
<td>Psychology 210</td>
</tr>
<tr>
<td>Ethics 203</td>
</tr>
<tr>
<td>Sociology 203</td>
</tr>
<tr>
<td>Elective</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 216</td>
<td>3</td>
</tr>
<tr>
<td>Business Law</td>
<td>3-5</td>
</tr>
<tr>
<td>Electives</td>
<td>6-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 218</td>
</tr>
<tr>
<td>Business Law</td>
</tr>
<tr>
<td>Electives</td>
</tr>
</tbody>
</table>

Note: Electives may be chosen from courses in the College of Law.

### Pre-Theological Course

In keeping with the trend of modern education and in order to meet the basic requirements for entrance to the leading theological seminaries, there is offered a suggested pre-theological course for students majoring in this field. It is designed to meet the requirements for the Bachelor of Arts degree as well as to prepare the student for the graduate school and seminary. The sociological, historical, scientific, and philosophical points of view are kept in mind. A broad cultural and professional basis which is so vital to the success of the present day clergyman is found in the curriculum outlined below. Christian idealism which is a necessary part of the student's equipment for this work is emphasized.

Students wishing to major in pre-theological work are requested to consult their advisor and the Dean before completing their registration. The curriculum outlined below has the approval, with but slight modifications in some cases, of the following theological schools: Boston University School of Theology, Drew University Seminary, Garret Biblical Institute, the University of Chicago Divinity School, and The Western Theological Seminary of Pittsburgh. Students graduating from Ohio Northern may be admitted to any of the above graduate schools, or to others in which they might be interested.
**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 Physical Education</td>
</tr>
<tr>
<td>English 101</td>
<td>1 English 102</td>
</tr>
<tr>
<td>Biology 101</td>
<td>1 Biology 102</td>
</tr>
<tr>
<td>Foreign Language 3-5</td>
<td>1 Foreign Language 3-5</td>
</tr>
<tr>
<td>History 101</td>
<td>1 History 102</td>
</tr>
<tr>
<td>Bible 101</td>
<td>1 Bible 102</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

| Physical Education                    | 1                           |
| English 102a                          | 3                           |
| Biology 103                           | 3                           |
| Foreign Language 3-5                   | 3                           |
| History 103                           | 3                           |
| Bible 103                             | 2                           |

Note. Foreign Language in order of preference—Greek, Latin, German, French.

**Second Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1 Physical Education</td>
</tr>
<tr>
<td>English 121 or 106 or Speech 110</td>
<td>1 English 122 or 107 or</td>
</tr>
<tr>
<td>or</td>
<td>Speech 111</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>5</td>
</tr>
<tr>
<td>Economics 121 or Political Science 101</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

| Physical Education                    | 1                           |
| English 122a or 108 or Science        | 3                           |
| or                                    | Science                     |
| Psychology 104 or 210                 | 3                           |
| Economics 123 or Political Science 103| 3                           |
| Foreign Language                      | 3                           |

**Third Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy 105</td>
<td>3 Philosophy 106</td>
</tr>
<tr>
<td>Sociology 201</td>
<td>3 Sociology 202</td>
</tr>
<tr>
<td>Bible 201</td>
<td>3 Bible 202</td>
</tr>
<tr>
<td>Religious Education 101 or Education</td>
<td>3 Religious Education 102</td>
</tr>
<tr>
<td>or Major</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

| Philosophy 107                        | 3                           |
| Sociology 203                          | 3                           |
| Bible 203                              | 3                           |
| Religious Education 103 or Education   | 3                           |
| or Major                               | 3-4                         |
Fourth Year

FALL QUARTER       WINTER QUARTER
Religion 201         3        Religion 202         3
Elective             3        Elective             3
Major                9-10     Major                9-10

SPRING QUARTER
Religion 203         3
Elective             3
Major                9-10

Note: Electives may be chosen from English, history, religious education, psychology, philosophy, education, economics, and Biblical literature.

CURRICULUM FOR MAJORS IN CHEMISTRY OR PHYSICS

Knowledge of chemistry or physics is essential to the understanding and development of many other branches of science both pure and applied. The teaching profession and the industries as well as the field of research offer many fine opportunities to persons who have good preparation in this and related divisions of learning. The curriculum herein recommended is intended to prepare the student, who is scientifically inclined, to avail himself of these opportunities, and to create in his mind the desire to continue advanced study in the graduate school or research laboratory. While a course of study of this type must necessarily be somewhat fixed, a number of electives are offered to meet any particular requirement of the student. Students who are inclined toward the field of physics may elect courses in physics instead of chemistry during the last two years.

First Year

FALL QUARTER       WINTER QUARTER
Physical Education  1        Physical Education  1
English 101         3        English 102         3
Chemistry 101 or 101a 5        Chemistry 102 or 102a 5
Mathematics 101      5        Mathematics 103      5
Modern Language      3        Modern Language      3

SPRING QUARTER

Physical Education  1
English 102a         3
Chemistry 103 or 103a 5
Mathematics 105      5
Modern Language      3
### Second Year

#### FALL QUARTER
- Physical Education: 1
- Modern Language: 3
- Chemistry 104: 5
- Physics 109: 5
- History 114 or Political Science 101: 3

#### WINTER QUARTER
- Physical Education: 1
- Modern Language: 3
- Chemistry 105: 5
- Physics 110: 5
- History 115 or Political Science 102: 3

#### SPRING QUARTER
- Physical Education: 1
- Modern Language: 3
- Chemistry 106: 5
- Physics 111: 5
- History 116 or Political Science 103: 3

### Third Year

#### FALL QUARTER
- English or Speech: 3
- Chemistry 107: 5
- Mathematics 107: 4
- Economics 121: 3

#### WINTER QUARTER
- English or Speech: 3
- Chemistry 108: 5
- Mathematics 109: 4
- Economics 122: 3

#### SPRING QUARTER
- English: 3
- Chemistry 109: 5
- Mathematics 109: 4
- Economics 123: 3

### Fourth Year

#### FALL QUARTER
- Mechanical Drawing: 4
- Chemistry 215: 3
- Philosophy 201: 3
- Elective: 5 or 6

#### WINTER QUARTER
- Chemistry 216: 3
- Philosophy 202: 3
- Electives: 9

#### SPRING QUARTER
- Physics 214: 5
- Chemistry 217: 3
- Electives: 7 or 8

### Pre-Law Course

Preliminary to entrance upon the study of law, the student needs an informational and cultural foundation. As a guide to students who anticipate the study of law, a pre-law curriculum of two years is scheduled on the following page:
### First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 101a or 101</td>
<td>3-5</td>
</tr>
<tr>
<td>Bible 101</td>
<td>2</td>
</tr>
<tr>
<td>History 101</td>
<td>3</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

| Physical Education | 1 |
| English 102a | 3 |
| Foreign Language | 3 |
| Mathematics 103a or 105 | 3-5 |
| Bible 103 | 2 |
| History 103 | 3 |

A year course in laboratory science (biology, chemistry or physics) may be elected instead of mathematics.

### Second Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Speech 110 or English 121</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>5</td>
</tr>
<tr>
<td>Economics 121</td>
<td>3</td>
</tr>
<tr>
<td>History 113</td>
<td>3</td>
</tr>
</tbody>
</table>

**SPRING QUARTER**

| Physical Education | 1 |
| Political Science 103 | 3 |
| Psychology 104 | 3 |
| Economics 123 | 3 |
| History 115 | 3 |
| Elective | 3 |

Alternatives for either Economics 121, 122, 123 or History 113, 114, 115, or both, are History 104, 105, 106 and History 121 122, 123.

### Arts-Law Combination Course

It is strongly recommended that the student plan to take at least nine quarters of work in the College of Liberal Arts, completing a total of 140 quarter hours, exclusive of physical education, and covering the prescribed and group elective courses as well as a number of “200” courses in the social sciences. Many very desirable and highly important courses preliminary to a thorough legal training are offered. The fourth year is taken as the freshman year in a standard law school. Upon the successful completion of the freshman year in law with a quality point average of 1.0 or better the degree of Bachelor of Arts is granted. After two more years of successful work in the law school the degree of Bachelor of Laws is granted.
It should be noted that a student admitted upon advanced credit from another college must be in residence three quarters (the third year) and complete a minimum of 45 quarter hours in the College of Liberal Arts of this University.

Students entering upon the Arts-Law Combination course must meet the regular entrance requirements and conform to the rules and regulations of the College of Liberal Arts.

**Teachers' Professional Courses**

In the section of this catalogue devoted to Teacher Training are found carefully prepared and fully approved curricula for students who plan to enter the field of teaching. Two-year courses in Primary and Intermediate fields, four-year curricula in Junior and Senior High School fields, a four-year curriculum in Physical Education, and a four-year Music Supervisor's Course are described in later pages of the Liberal Arts section.

**Liberal Arts Course and Vocations**

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

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


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

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

While there is a large offering of courses listed in the Liberal Arts section of this catalogue, in the other colleges of the University there are many courses described, a limited number of which may be elected by Liberal Arts students, thus enabling them to more fully attain their life ambitions and objectives. Students who have professional ends in view should not overlook this feature of Ohio Northern.
Description of Courses

All courses in the "100" group are primarily Junior Division courses (Freshman and Sophomore). All courses in the "200" group are primarily Senior Division courses (Junior and Senior).

Ancient Languages

PROFESSOR SCHOONOVER

It is the aim of this department to utilize as fully as possible the efficiency of Latin and Greek as instruments of education and a means of culture. Each author is studied in historical and literary relation to his period. The works of any other author, of equal value, may be substituted for any course in the schedule at the wish of the class and with the approval of the Dean and instructor.

GREEK

Introductory Courses

101. ELEMENTARY GREEK (Fall) 5 Hrs.
102. ELEMENTARY GREEK (Winter) 5 Hrs.
103. ELEMENTARY GREEK (Spring) 5 Hrs.

Courses 101-103 are a study of the structure of the Greek sentence according to the principles of Attic Greek. Daily, 3:30.

Advanced Courses

*104. XENOPHON—ANABASIS (Fall) 3 Hrs.
*105. SELECTIONS FROM PLATO AND HOMER (Winter) 3 Hrs.
*106. NEW TESTAMENT GREEK (Spring) 3 Hrs.

A literary study of the period is a part of each course. M. W. F., 3:30.

LATIN

Introductory Courses

101. ELEMENTARY LATIN (Fall) 5 Hrs.
102. ELEMENTARY LATIN (Winter) 5 Hrs.
103. ELEMENTARY LATIN (Spring) 5 Hrs.

Courses 101-103 are a study of the structure of the Latin sentence with a gradual development of the principles of the paragraph and early introduction of the reading of easy stories. Daily, 7:30.

* Not given in 1930-31.
104. **Selected Stories from Roman History and Mythology** (*Fall*) 3 Hrs.

105. **Caesar—Selected Readings** (*Winter*) 3 Hrs.

106. **Caesar—Selected Readings** (*Spring*) 3 Hrs.

   The readings from Caesar are selected with a view to logical continuity and are equivalent to four books of the text. T. Th. F., 4:30.

**Advanced Courses**

*107. **Cicero—Selected Orations** (*Fall*) 3 Hrs.

*108. **Cicero—Orations; Virgil—Aeneid** (*Winter*) 3 Hrs.

*109. **Virgil—Aeneid** (*Spring*) 3 Hrs.

   Courses 107-109 are open to students who have presented two units of Latin for college entrance. T. Th. F., 2:30.

110. **Cicero—De Senectute Et De Amicitia** (*Fall*) 3 Hrs.

111. **Livy—Book XXI of the History** (*Winter*) 3 Hrs.

112. **Horace—Odes and Satires** (*Spring*) 3 Hrs.

   Courses 110-112 are open to students who have presented three or four units of Latin for college entrance. M. W. F., 1:30.

*115. **Cicero—De Oratore, Orator, Brutus** (*Fall*) 3 Hrs.

*116. **Pliny—Letters** (*Winter*) 3 Hrs.

*117. **Ovid—Metamorphoses** (*Spring*) 3 Hrs.

   A group of extensive reading courses for juniors and seniors. T. W. Th., 10:00.

120. **Tacitus—Germania et Agricola** (*Fall*) 3 Hrs.

121. **Quintilian—De Institutione Oratoria** (*Winter*) 3 Hrs.

*122. **Virgil—Georgics** 3 Hrs.

   A group of extensive reading courses for juniors and seniors. T. W. Th., 10:00.

250. **Teaching Latin** (*Spring*) 3 Hrs.

   For general description of special methods courses see Division of Teacher Training. T. W. Th., 11:00.

* Not given in 1930-31.
Biblical Literature and Religion

PROFESSOR VAN BUREN

This department seeks to serve students interested in courses of a religious nature. The historical approach to the different materials is constantly kept in mind in order that a sound point of view might be attained. The work of this department aims first, to prepare students for graduate work, and second, to enable students to carry on better the religious work of their home community, with a view towards constantly reconstructing their religious experiences in the light of the ideals of Jesus.

The sequence of courses for the major develops most logically when taken in the following order:

First Year: Bible 101, 102, 103.
Second Year: Religious Education 101, 102, 103.
Third Year: Bible 201, 202, 203, or Philosophy 201, 202, 203.

BIBLE

101. LIFE OF CHRIST \((\text{Fall})\)

This course is designed for first year students. An examination is made of the historical conditions before and at the time of Christ. The aim of the course is to familiarize the student with the sources of the life of Christ and their original settings so that he may construct his own life of Christ. Two sections, T. Th., 7:30 or 9:00.

102. TEACHINGS OF JESUS \((\text{Winter})\)

This course is based upon the four gospels. Its aim is to bring before the student in a vital way the fundamental principles of Christ's teachings and to show their practical application. Hours same as course 101.

103. THE LIFE OF PAUL \((\text{Spring})\)

This course deals with Paul, his life and message, and the influences which overcame the Roman world. Study is made of world conditions during the Pauline period. Some attention is also given to the remaining materials in the New Testament. Hours same as course 101.

*105. INTRODUCTORY STUDY OF THE OLD TESTAMENT

\((\text{Summer})\) 3 Hrs.

106. INTRODUCTORY STUDY OF THE NEW TESTAMENT

\((\text{Summer})\) 3 Hrs.

The work of these courses is to familiarize the student with the Bible from a literary, historical and religious standpoint. Authorship, content, date and historical setting of the various books are taken up in their respective order. M. W. F., 2:30.

* Not given in 1930-31.
201. **THE ANCIENT HEBREWS (Fall)** 3 Hrs.
   A study of religious and Hebrew origins. Study is made of the literature and its development, as well as the customs and institutions which grew up out of the manner of life of the Hebrew people. The tribal and national periods of Hebrew history are studied up to the time of the Babylonian exile. M. W. F., 2:30.

202. **PROPHECY AND PROPHETS (Winter)** 3 Hrs.
   The great prophetic messages of the Old Testament are studied from a literary, historic, social and religious standpoint. Conditions are studied which produced these prophecies. Their general aim and effect are constantly observed. M. W. F., 2:30.

203. **HISTORY OF THE JEWISH PEOPLE (Spring)** 3 Hrs.
   This course deals with the historic events after the exile. An attempt is made to set forth the literary and religious development which takes place between the exile and the time of the Christian era. M. W. F., 2:30.

**RELIGIOUS EDUCATION**

101. **PRINCIPLES AND METHODS (Fall)** 3 Hrs.
   A study of the fundamental aspects of religious experience. The history and development of the present religious education movement. Special attention is given to the different age levels of the individual. M. W. F., 10:00.

102. **CURRICULUM OF RELIGIOUS EDUCATION (Winter)** 3 Hrs.
   A study of the materials now available; those being used; the various series now being published; and the principles which should govern the curriculum. Prerequisite: Religious Education 101. M. W. F., 10:00.

103. **RELIGION OF CHILDHOOD AND YOUTH (Spring)** 3 Hrs.
   A psychological study in religion and education. The child’s native equipment, his native abilities, the laws of learning, the development of the physical, mental and personal traits, attitudes, interests, and general character formation are studied. The importance of religion at the different ages and its best adaptation to these ages are analyzed. M. W. F., 10:00.

**PHILOSOPHY**

*201. **REFLECTIVE THOUGHT (Fall)** 3 Hrs.
   A survey of the workings of the mind. A study is made of the characteristics of effective thinking, and the various methods involved. Resourcefulness in thinking, classifications of knowledge and how conclusions are reached are studied. A desirable course to precede a study of the sciences and philosophy. M. W. F., 3:30.

* Not given in 1930-31.
*202. **Logic (Winter)**
   A constructive study of mental processes, the laws of learning, mental fallacies, methods of proof, the proper organization and presentation of ideas, and the limitation and expression of knowledge. M. W. F., 3:30.

*203. **Ethics (Spring, Summer)**
   A study of morality and the problems of conduct; their historical development and social and political relationship. Especially designed for teachers and students in professional schools. M. W. F., 3:30.

205. **History of Philosophy (Fall)**
206. **History of Philosophy (Winter)**
207. **History of Philosophy (Spring)**
   These three courses in philosophy trace the movements of philosophical thought up to and including (a) the time of Christ, (b) the close of the nineteenth century, and (c) recent and present philosophy. The courses must be taken in sequence. T. Th. F., 3:30.

**RELIGION**

210. **History of Religion (Fall)**
   A study of the origin and development of the primitive and historic religions of mankind. The fundamental religious beliefs and customs and the institutions which have grown up around these beliefs are studied. A knowledge of the general aim and nature of religion is sought. M. W. F., 4:30.

211. **Psychology of Religion (Winter)**
   This is a study of a special subject based on an elementary course in psychology. Three main topics are treated: (1) The beginning of religion in the race, dealing with primitive customs, ritual, taboo, sacrifice, prayer, myth, magic; (2) the beginning of religion in the individual, involving a study of adolescence and the types of religious experience; and (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. Prerequisite: Psychology 101. M. W. F., 4:30.

212. **Philosophy of Religion (Spring)**
   An analysis of religious knowledge, its validity, and supremacy. The grounds for the Theistic beliefs and their assumptions and evidences are investigated. Special study is made of the Christian religion. M. W. F., 4:30.

* Not given in 1930-31.
Biology

PROFESSOR HUBER AND ASSISTANT PROFESSOR DOBBINS

This department aims to meet the needs of students (1) expecting to teach, (2) looking forward to graduate work in biology, (3) preparing for the study of medicine, dentistry, or nursing, or (4) needing foundation courses to qualify themselves for future affiliation with experiment stations and research laboratories. Chemistry, physics, German and mathematics should be elected by majors.

101. ZOOLOGY (Fall)  3 Hrs.
102. ZOOLOGY (Winter)  3 Hrs.
103. ZOOLOGY (Spring)  3 Hrs.

These courses are designed for students who desire a general acquaintance with some of the biological laws and theories as evidenced by the animal world. A general survey of the animal kingdom based on classification, morphology, physiology, and ecology. Special attention is given to the problems of the organism, with emphasis on development, reproduction, genetics, and evolution. Section 1, M. W., 10:00-12:00; Friday, 10:00; Section 2, T. Th., 1:30-3:30; Friday, 2:30; Section 3, T. Th., 3:30-5:30; Friday, 4:30.

106. COMPARATIVE VERTEBRATE ANATOMY (Fall)  5 Hrs.

A comparative study of the anatomy of fishes and amphibians. Careful dissections are made of the different systems and the relationships noted. Recitations three hours; laboratory six hours. M. W. F., 9:00; T. Th., 9:00-12:00.

113. MAMMALIAN ANATOMY AND PHYSIOLOGY (Winter)  5 Hrs.

A thorough dissection of a typical mammal. This course is designed especially for pre-medical students and follows Comparative Anatomy. Time schedule same as for course 106.

218. VERTEBRATE EMBRYOLOGY (Spring)  5 Hrs.

This course is fundamentally important to students who expect to teach zoology, study medicine, or from a cultural standpoint wish to know something of the origin and development of the human body. Laboratory work is confined largely to the chick, with occasional reference to the pig. Prerequisite: Zoology 101, 102, 103. Time schedule same as for course 106.
107. BOTANY (Fall) 3 Hrs.
108. BOTANY (Winter) 3 Hrs.
109. BOTANY (Spring) 3 Hrs.

These courses are presented largely as cultural courses with emphasis placed on careful observation and logical conclusion. The time is devoted to a consideration of the physiological processes, ecology, structure, reproduction, genetics, distribution, and evolution of plants. Section 1, M. W., 1:30-3:30, F., 1:30. Section 2, M. W., 3:30-5:30, F., 3:30.

*110. LOCAL FLORA (Spring, Summer) 3 Hrs.

A systematic study which acquaints the student with many of the native and introduced plants, and so familiarizes him with the structure and use of keys that he is able to proceed independently with the identification of unknown plants. A field course supplemented by greenhouse and herbarium studies. Saturday forenoon and one other hour to be arranged.

*222. PLANT PHYSIOLOGY (Winter) 3 Hrs.

A study of the primary physiological processes of plants; absorption, transpiration, photosynthesis, respiration, digestion, translocation, accumulation, assimilation, and growth. Prerequisite: Botany 107, 108, 109, T. Th., 9:00-12:00.

224. PLANT MORPHOLOGY (Winter) 3 Hrs.

A study of the structures and life histories of typical plants of the various plant phyla. Prerequisite: Botany 107, 108, 109. T. Th., 9:00-12:00.

217. HEREDITY AND EVOLUTION (Spring) 3 Hrs.

A course introductory to the study of heredity and evolution in plants and animals. Lectures, lantern slides and demonstrations are designed to aid in the interpretation of the fundamental laws and processes basic to inheritance and development. The relation of heredity, eugenics and evolution to sociological and philosophical problems is emphasized. Prerequisite: Zoology 101, 102, 103, or Botany 107, 108, 109. T. Th. F., 11:00.

219. HISTOLOGY AND TECHNIQUE (Fall) 3 Hrs.

Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. A detailed microscopic study of various plant or animal tissues is made. Prerequisite: one year of zoology or botany. Consult instructor before registering. Lecture and class work two hours, laboratory six to eight hours. Time schedule to be arranged. Open to seniors majoring in biology.

* Not given in 1930-31.
220. **BIOLOGICAL PROBLEMS**  1-3 Hrs.

Minor investigations for qualified seniors who are taking a major or minor in biology. By arrangement any quarter. Fee depends on nature of work done.

250. **TEACHING BIOLOGICAL SCIENCES (Spring)**  3 Hrs.

For general description of special methods courses see Division of Teacher Training.

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**Chemistry**

**PROFESSOR SLEESMAN AND PROFESSOR HARROD, MR. EWING**

The aim of the courses in this department is to lay the groundwork for an understanding of this basic science. The four fundamental courses, general chemistry, quantitative chemistry, organic chemistry and physical chemistry, together with allied courses prepare the student for industrial work and along with prescribed courses in Teacher Training prepare him for the teaching of chemistry. Students majoring in chemistry with the expectation of doing graduate work should carry mathematics through the calculus, elect the course in general physics, and have a reading knowledge of German and French. The four basic courses should be taken in the order mentioned above.

101a. **INTRODUCTORY CHEMISTRY (Fall)**  5 Hrs.

102a. **INTRODUCTORY CHEMISTRY (Winter)**  5 Hrs.

103a. **INTRODUCTORY QUALITATIVE ANALYSIS (Spring)**  5 Hrs.

A series of courses designed for students who do not present chemistry for entrance credit. Courses 101a and 102a consist of a careful study of the fundamental laws of chemistry and of the properties of the common metallic elements and their compounds; course 103a is an introductory study in qualitative analysis of acids and metals, based upon the principles of ionization, mass action and chemical equilibrium. A brief study is made of the common metallic elements and their compounds.

Two sections. Lecture and quiz, M. W. F., 7:30 or 10:00. Laboratory M. W., 2:30-5:30 or T. Th., 1:30-4:30.

101. **GENERAL CHEMISTRY (Fall, Summer)**  5 Hrs.

102. **GENERAL CHEMISTRY (Winter, Summer)**  5 Hrs.

103. **QUALITATIVE ANALYSIS (Spring, Summer)**  5 Hrs.

Basic courses in General Chemistry. Prerequisite: One unit of high school chemistry. Two sections. Lecture and quiz, M. W. F., 9:00 or 11:00. Laboratory, Pharmacy students, M. W., 2:30-5:30. Liberal Arts and Engineering students, T. Th., 9:00-12:00 or 1:30-4:30.
104. QUANTITATIVE ANALYSIS (Fall) 5 Hrs.

105. QUANTITATIVE ANALYSIS (Winter) 5 Hrs.

106. QUANTITATIVE ANALYSIS (Spring) 5 Hrs.

Courses emphasizing the underlying fundamental principles of quantitative analysis. Determination of the percentage composition of compounds by gravimetric and volumetric analysis. Study of processes of acidimetry and alkalimetry; oxidation and reduction; iodimetry and chlorimetry. Prerequisite: Chemistry 103a or 103. Lectures, T. Th., 1:30; laboratory, M. W. F., 1:30-4:30.

107. ORGANIC CHEMISTRY (Fall) 5 Hrs.

108. ORGANIC CHEMISTRY (Winter) 5 Hrs.

109. ORGANIC CHEMISTRY (Spring) 5 Hrs.

These courses consist of a fundamental study of the compounds of carbon. Careful attention is given to group structure, group relationship, group properties, isomerism and nomenclature. Prerequisite: Chemistry 101a, 102a, 103a or 101, 102, 103. Lecture and quiz, M. W. F., 1:30; laboratory, T. Th., 1:30-4:30.

210. INDUSTRIAL ORGANIC CHEMISTRY (Spring) 5 Hrs.

A course designed to acquaint the student with the application of organic compounds and analytical methods to the industries. Prerequisite: Chemistry 107, 108, 109. Lecture M. W. F., 9:00; laboratory, T. Th., 9:00-12:00.

211. QUALITATIVE ANALYSIS (Fall) 5 Hrs.

A course designed to give the student a knowledge of the principal chemical laws and reactions needed for identification of the common elements and their compounds. The analysis of at least twelve complex unknowns is made by each student. Prerequisite: Chemistry 103a or 103. Lecture, T. Th., 10:00; laboratory, M. W. F., 7:30-10:00.

212. CHEMICAL PREPARATIONS (Winter) 5 Hrs.

This is primarily a laboratory course, the object of which is to develop skill in dealing with the difficulties that are encountered in the process of making pure preparations. Prerequisite: Chemistry 103a or 103. Lecture, T. Th., 10:00; laboratory, M. W. F., 7:30-10:00.

214. INORGANIC INDUSTRIAL CHEMISTRY (Winter) 5 Hrs.

A study of the important industrial chemical processes, furnishing the ground work for advanced work. Prerequisite: Chemistry 108. Daily 9:00.
215. Physical Chemistry (Fall) 3 Hrs.
216. Physical Chemistry (Winter) 3 Hrs.
217. Physical Chemistry (Spring) 3 Hrs.

A series of courses designed to develop a comprehensive conception of chemical change and the structure of matter. In the interest of the pre-medical student, special attention is given to osmosis, equilibrium, colloids and hydrogen ion determination. Prerequisite: Quantitative analysis, organic chemistry and general physics. Trigonometry as a minimum mathematical preparation is strongly recommended. Lecture and quiz, M. W. F., 11:00.

231. Chemistry Problems 3 Hrs.

Minor investigations for qualified seniors who are majoring in chemistry. Consult head of department.

250. Teaching Physics and Chemistry (Spring) 3 Hrs.

For general description of special methods courses see Division of Teacher Training.

Economics and Business Administration

Assistant Professor Geeting

Students interested in economics may be broadly classified into five groups: (1) those desiring an understanding of economics as an essential element of a liberal education; (2) those majoring in other social sciences; (3) prospective high school teachers of social science; (4) pre-law and engineering students; and (5) those majoring in the department who expect either to do graduate work in economics or business administration or to enter business.

Economics 121, 122, and 123 should be of interest to all groups; Economics 204, 207, and 208 might also be of interest to groups (2), (3), (4), and (5); many or all of the courses will probably be of interest to groups (4) and (5). See curriculum emphasizing Economics and Business Administration on page 59 of this catalogue.

101. Principles of Accounting (Fall) 4 Hrs.
102. Principles of Accounting (Winter) 4 Hrs.
103. Principles of Accounting (Spring) 4 Hrs.

Principles of the double-entry system; asset and equity accounts; journal and ledger; expense and revenue accounts; periodic adjustment of accounts; working sheets; income statements; balance sheets; valuation and income determination; trading and manufacturing accounts; and partnership and corporate accounting. Open to freshmen. This course should precede Economics 207, 208, 214, 215, and 216. Dally, 10:00.
121. **PRINCIPLES OF ECONOMICS (Fall)** 3 Hrs.
122. **PRINCIPLES OF ECONOMICS (Winter)** 3 Hrs.
123. **PRINCIPLES OF ECONOMICS (Spring)** 3 Hrs.

Wants, scarcity, and economy; economic history; organization of production; value and price; monopoly and its control; financial organization; distribution of wealth and income; inequality and social reform; public finance; and international trade. Not open to freshmen. Three sections. M. W. F., 11:00, 1:30, or 3:30.

204. **LABOR PROBLEMS (Fall)** 3 Hrs.

The Industrial Revolution and the workers; wages; standard of living; population and immigration; hours of labor; unemployment; the aged worker; labor organization; employers' associations; industrial disputes; arbitration and conciliation; scientific management; personnel administration; and programs of reconstruction. Prerequisite: Economics 121, 122, and 123. M. W. F., 9:00.

207. **MONEY AND BANKING (Winter)** 3 Hrs.
208. **MONEY AND BANKING (Spring)** 3 Hrs.

Nature and functions of money and credit; banking operations; development of banking; Federal Reserve System; clearing and collection; foreign exchange; financing foreign trade; business cycle; trust companies; investment banking; savings banks; investment trusts; agricultural credit institutions; and recent tendencies in banking. Prerequisite: Economics 121, 122, and 123. M. W. F., 9:00.

*214. **BUSINESS FINANCE (Winter)** 3 Hrs.
*215. **BUSINESS FINANCE (Spring)** 3 Hrs.

Stocks and bonds; promotion; capitalization plan; marketing of securities; short-term borrowing; budgeting; financial forecasting; tests of successful operation; treatment of earnings; expansion; and failure and reorganization. Prerequisite: Economics 121, 122, and 123.

*216. **BUSINESS ORGANIZATION (Fall)** 3 Hrs.

The nature of business enterprise; sole proprietorship; partnership; corporation; corporate weaknesses and organizations designed to correct them—Massachusetts trust, holding company, merger, trade associations; and social control of business. Prerequisite: Economics 121, 122, and 123.

* Not given in 1930-31.
English

PROFESSOR FREEMAN, ASSISTANT PROFESSOR WILDER
AND MR. LAWRENCE FREEMAN

The work of the Department of English has been arranged with three chief ends in view: first, it aims to provide the student with such skill in writing that, regardless of what field of business or what profession he may later enter, he may express his ideas clearly and adequately; second, it aims to give the student a knowledge of two great literatures, the English and the American, so that he may, after he has finished his college work, read with some critical ability, understanding, and appreciation of literature as an art and as an interpretation of life; and third, the department offers advanced work to those who are planning to specialize in the field of English or American literature as teachers.

First year courses: 101, 102, 102a; second year courses: 106, 107, 108; 121, 122, 122a; 128, 129, 130; third year courses: 205, 225; 250; 210, 211, 212; 217, 218, 219; fourth year courses: 204, 224; 214, 215, 216; 231.

101. COMPOSITION (Fall, Spring) 3 Hrs.
102. COMPOSITION (Winter) 3 Hrs.
102a. COMPOSITION (Spring) 3 Hrs.

These three courses constitute a year of work for freshmen. A thorough drill in the mechanics of written English, exposition and argumentation; description and narration. Considerable attention is given to the study of the structure of the short story. Daily themes. Students registered in the Colleges of Liberal Arts and Education who show a high degree of proficiency in English, may elect English 122a in the place of Composition 102a. Eight sections, M. W. F., 9:00; 10:00; T. Th. F., 11:00; M. W. F., 11:00; M. W. F., 1:30; T. Th. F., 2:30; M.W.F., 3:30; T. Th. F., 4:30.

106. EIGHTEENTH CENTURY PROSE (Fall) 3 Hrs.
107. EIGHTEENTH CENTURY PROSE (Winter) 3 Hrs.

In these courses a study is made of the prose of Defoe, Swift, Steele, Addison, Fielding, Burke, Gibbon, Johnson, Goldsmith and Boswell. An attempt is made to interpret eighteenth century thought through the chief prose writers of the period. Prerequisite: English 101, 102. M.W.F., 9:00.

108. EIGHTEENTH CENTURY POETRY (Spring) 3 Hrs.

The poetry of the Restoration and the Eighteenth Century. A study of the poetry of Dryden, Pope, Collins, Burns, Cowper, Blake, and Crabbe, together with some of the minor writers of the period. English 106 and 107 together with this course constitute a year's work in sophomore English. M. W. F., 9:00.
110. **ARGUMENTATION** (*Fall*)  
3 Hrs.

111. **ARGUMENTATION** (*Winter*)  
3 Hrs.
For description of courses see Department of Speech.

121. **AMERICAN POETRY** (*Fall*)  
3 Hrs.
A study chiefly of the nine great American poets of the nineteenth century, but attention will be given to work of recent and contemporary poets. An attempt will be made to show what America has done in poetry, the greatest of the fine arts. M. W. F., 10:00.

122. **AMERICAN PROSE** (*Winter*)  
3 Hrs.
Some attention is paid to the prose of the Colonial period, but the following writers are stressed: Edwards, Franklin, Irving, Hawthorne, Poe, Thoreau, Lowell, Emerson, Holmes, Calhoun, Webster and Lincoln. M. W. F., 10:00.

122a. **AMERICAN PROSE** (*Spring*)  
3 Hrs.
A continuation of English 122 with special emphasis on the development of the American novel. English 121, 122, and 122a constitute a year's work of sophomore rank. M. W. F., 10:00.

128. **NEWS WRITING** (*Fall*)  
3 Hrs.
Basic course. Theory and practice in preparing news stories; methods of news gathering, and newspaper ethics. Open to members of the Northern Review Staff and students majoring in English. T. Th. F., 7:30.

129. **NEWS WRITING** (*Winter*)  
3 Hrs.
Continuation of the above. Special attention is given to feature and human interest stories; comparison of methods of different papers in handling news, and practice in writing news stories and reviews. T. Th. F., 7:30.

130. **COPY READING AND EDITING** (*Spring*)  
3 Hrs.
Headline writing; use of style sheets and style books; terms and phrases used in handling copy. Lectures on duties of members of an editorial staff. Visits to modern newspaper offices. Prerequisite: English 128, 129. T. Th. F., 7:30.

201. **COLLEGE GRAMMAR** (*Winter*)  
3 Hrs.

204. **THE SHORT STORY** (*Winter*)  
2 Hrs.

224. **THE SHORT STORY** (*Spring*)  
2 Hrs.
205. Expository Writing (Fall)  2 Hrs.
225. Expository Writing (Winter)  2 Hrs.
A study of the various types of the essay and the writing of short themes together with longer fort-nightly themes. Considerable attention is given to the familiar essay. In order to receive credit both courses must be completed. Open to all juniors and seniors. Required of all students who major in English. T. Th., 9:00.

210. Shakespeare: Histories (Fall)  3 Hrs.
211. Shakespeare: Tragedies (Winter)  3 Hrs.
212. Shakespeare: Comedies (Spring)  3 Hrs.
In these courses Shakespeare is studied as a dramatist, poet, interpreter of his age, and as an interpreter of human life. Attention is given to the technique of the Elizabethan drama. Open to juniors and seniors. M. W. F., 11:00.

214. Nineteenth Century Poetry (Fall)  3 Hrs.

215. Nineteenth Century Poetry (Winter)  3 Hrs.
A study of the poetry of Tennyson. Special attention is given to Tennyson as an interpreter of the social trend of the nineteenth century. M. W. F., 3:30.

216. Nineteenth Century Poetry (Spring)  3 Hrs.
A study of the poetry of Browning. Special attention is given to the study of Browning as a portrait of character and to his philosophy. In English 214, 215, and 216 a study is also made of the various types of poetry and of versification and criticism. These three courses constitute a year's work. M. W. F., 3:30.

*217. Nineteenth Century Essayists (Fall)  3 Hrs.
*218. Nineteenth Century Essayists (Winter)  3 Hrs.
In English 217 and 218 the following essayists are studied: Coleridge, Lamb, Hazlitt, Landor, DeQuincey, Macauley, Carlyle, Newman, Ruskin, Huxley, Pater, and Stevenson.

*219 The English Novel (Spring)  3 Hrs.
The development of the novel of the nineteenth century and its place in prose fiction. Study and criticism. English 217, 218, and 219 constitute a year's work and have as prerequisites 12 hours of English. M. W. F., 9:00.

231. English Problems  3 Hrs.
Minor investigations for qualified seniors who are majoring in English. Consult head of department.

250. Teaching English (Spring, Summer)  3 Hrs.
For general description of special methods courses see Division of Teacher Training.

* Not given in 1930-31.
HEALTH AND PHYSICAL EDUCATION

Professor E. R. Miller
Director
Professor C. A. Lamb
Assistant Professor H. A. Lamb
Assistant Professor Mildred Bruckheimer

General Statement

Some form of physical activity is required of all students during their first two years in the University. The nature and amount of the work to be taken depends upon physical condition as revealed by a careful examination, and by efficiency tests given at the beginning of the school year. A varied program of elective and required activities is provided, which aims to secure and maintain the highest degree of individual and social efficiency both during and after college life.

The elective courses are of both a theoretical and practical nature. A strong intramural sports program is designed to provide some form of activity for nearly every student on the campus; while for those who wish to specialize in the physical education field, a four-year curriculum is offered.

Required Work

Two hours a week. One credit hour each quarter.

First Year. This work is given both out-of-doors and in the gymnasium. It is systematically graded and arranged to fit the needs and interests of the individual. Corrective work, for those who need it, and the fundamentals of natural gymnastics and games are stressed.

Second Year. A continuation of the first year program, with greater emphasis on play activities.

Elective Courses

Intramural Sports

Ample athletic fields and a splendid new gymnasium afford exceptional facilities for an intramural program that is suffi-
ciently broad and varied as to offer some form of activity for the majority of University students. In their proper seasons, the following sports are offered: football, basketball, baseball, speedball, handball, playground ball, volley ball, tennis, wrestling, boxing, and track. The intramural program is in charge of a competent director who is assisted by student managers.

**INTERCOLLEGIATE ATHLETICS**

Ohio Northern is a member of the Ohio Conference of Colleges in Athletics, and has gained an enviable reputation for the quality and character of her teams. In football, basketball, and track she has consistently been rated among the stronger members of the Conference, and just now the outlook for the future is most promising.

The new $200,000 Taft Gymnasium offers facilities for indoor activities second to none in the state. A new athletic field covering several acres provides space and equipment for a baseball diamond, two football fields, a hockey field, tennis courts, a running track, and intramural facilities. Northern's teams are always neatly and well equipped. Additions to the coaching staff insure well-trained and well-coached representatives in all sports. In fact, Ohio Northern offers a wide opportunity for indoor and outdoor sports, and takes just pride in maintaining varsity teams and an intramural program of high order.

**FOUR-YEAR PROFESSIONAL COURSE**

This course is designed for the training of teachers, supervisors, coaches, and directors of physical education in the public schools, colleges, universities, Christian Associations, and for playground and other recreational work. The work is fully accredited by the Ohio Department of Education, and for those completing the course, the state high school provisional certificate is granted. The courses are of a theoretical and practical nature, and are designed to meet the increasing demand for teachers and leaders in this field. Facilities for practice teaching and laboratory work are ample. For those desiring to coach, opportunity for practical work is offered in the coaching of freshman and intramural teams. The curriculum of the four-year course will be found in the section on Division of Teacher Training.
COURSES IN VARSITY COACHING AND PHYSICAL EDUCATION

During the fourth quarter, commonly known as the Summer Quarter, the Department of Physical Education offers a six weeks’ course in coaching in various sports: Football, basketball, baseball, and track. These courses cover the fundamentals of each sport: team training, massage and care of injuries, the science of building plays, discussions of the systems now in use by the major coaches in the country, in addition to the fundamentals of physical education and practical work necessary to prepare men and women to handle this department in all high schools and graded schools. This entire course is under the supervision of the director and his assistants. Fuller information concerning the work will be furnished upon application.

DESCRIPTION OF COURSES

101. PHYSICAL EDUCATION (Fall) 1 Hr.
102. PHYSICAL EDUCATION (Winter) 1 Hr.
103. PHYSICAL EDUCATION (Spring) 1 Hr.

   Men—Gymnasium and outdoor classes in season, natural gymnastics, informal play. Six sections. M. W., 7:30, 9:00, 10:00, 11:00, 1:30, 2:30.

   Women—A course in natural gymnastics including games and sports in season, dancing and tumbling. Six sections. T. Th., 7:30, 9:00, 10:00, 11:00, 1:30, 2:30.

104. PHYSICAL EDUCATION (Fall) 1 Hr.
105. PHYSICAL EDUCATION (Winter) 1 Hr.
106. PHYSICAL EDUCATION (Spring) 1 Hr.

   Men—Continuation of course 103 with team games and apparatus added. Six sections. M. W., 7:30, 9:00, 10:00, 11:00, 1:30, 2:30.

   Women—A continuation of course 103. Six sections. T. Th., 7:30, 9:00, 10:00, 11:00, 1:30, 2:30.

101a. PHYSICAL EDUCATION FOR MAJORS (Fall) 1 Hr.
102a. PHYSICAL EDUCATION FOR MAJORS (Winter) 1 Hr.
103a. PHYSICAL EDUCATION FOR MAJORS (Spring) 1 Hr.
104a. PHYSICAL EDUCATION FOR MAJORS (Fall) 1 Hr.
105a. PHYSICAL EDUCATION FOR MAJORS (Winter) 1 Hr.
106a. PHYSICAL EDUCATION FOR MAJORS (Spring) 1 Hr.

Courses 101a to 106a inclusive are required of all students majoring or minor ing in physical education in place of courses 101 to 106. These courses consist of natural gymnastics in season including games, stunts, tumbling, clogging, folk and characteristic dancing, natural dancing, pageantry for women, and antagonistics for men. Men and women. T. Th., 1:30.
107. **Boxing** (*Fall, Winter, Spring*) 1 Hr.

108. **Wrestling** (*Fall, Winter, Spring*) 1 Hr.

109. **Fencing** (*Fall, Winter, Spring*) 1 Hr.

These courses are provided as electives for first and second year students who meet the necessary health and physical efficiency tests. They may be substituted for an equal number of hours in Courses 101-106, inclusive. One hour credit each quarter throughout the year. T. Th.

115. **Personal and General Hygiene** (*Winter*) 3 Hrs.

A course designed to cover the various phases of personal hygiene and health, from both the individual and social aspects, with special emphasis on preventive measures. M. W. F., 11:00.

117. **Health Education** (*Spring*) 3 Hrs.

This course deals with the health program of the public schools, and the teaching of habits, attitudes and knowledge conducive to good health. M. W. F., 1:30.

151. **Health Education** (*Fall*) 3 Hrs.

A course for the special teacher and supervisor of physical education, dealing with the sanitation of school buildings, surveys of various school systems, teachers' health, and other health problems arising in a school system. M. W. F., 9:00.

152. **Health Education** (*Winter*) 3 Hrs.

The relation of hygiene to home and community life, including a study of sewage disposal, refuse disposal, transmission and control of diseases. M. W. F., 1:30.

155. **Kinesiology** (*Spring*) 2 Hrs.

This course deals with the general body mechanics of the human organism, furnishing students an opportunity to study and analyze the activities of the physical education program in their relation to co-ordination and the proper body mechanics. T. Th., 9:00.

156. **Theory and Practice of Plays and Games** (*Spring*) 3 Hrs.

The need, purpose and function of play in education are studied. This includes a consideration of the social, educational and biological aspects of play and recreation. Activities adaptable to various age levels of the elementary and secondary schools are studied. Two hours of theory and two hours of laboratory per week. M. T. W. Th., 2:30.

201. **Principles and Methods of Physical Education** (*Fall*) 3 Hrs.

202. **Principles and Methods of Physical Education** (*Winter*) 3 Hrs.
203. PRINCIPLES AND METHODS OF PHYSICAL EDUCATION  
(Spring)  3 Hrs.  
Lectures, demonstrations and practice. An examination of the principles underlying modern practices in physical education, from the standpoint of general education. The methods used in the natural program of physical education, such as the teaching of fundamental skills of tumbling and stunts, basketball, indoor baseball, speedball, volleyball, handball. Testing and grading results will be included in the course also. Two hours of theory and two hours of laboratory per week. Class T. Th.; practice M. W., 11:00.

221. METHODS IN COACHING FOOTBALL  (Fall)  3 Hrs.  
A course covering in detail, equipment, fundamentals of the game, kicking, passing, handling the ball, tackling, blocking, etc.; individual position play; discussion of various types of offensive and defensive formations now in use, and the merits of each; offensive plays; strategy and generalship; organization of material; psychology; and a study of the rules. M. W. F., 1:30.

*221. METHODS IN COACHING FOR WOMEN  (Fall)  3 Hrs.  
This course is to prepare major and minor students in physical education to coach athletics in secondary schools. The course covers presentation of technique, basic principles, team play and methods for instruction of hockey, soccer and speedball. M. W. F., 1:30.

222. METHODS IN COACHING BASKETBALL  (Winter)  3 Hrs.  
Men—Special emphasis is given to the fundamentals, passing, shooting, dribbling, feinting, and pivoting; to the various styles of offense and defense used by the leading coaches; to equipment; to the conditioning of a team; and to the handling of a team in games. Lectures, reports, demonstration and practice. M. W. F., 1:30.  

223. METHODS IN COACHING BASEBALL  (Spring)  3 Hrs.  
Men—This course covers pitching, catching, batting, fielding, base running, individual position and team play; also coaching methods. Lectures, reports, demonstrations and practice. M. W. F., 1:30.  

223. METHODS IN COACHING TRACK AND FIELD ATHLETICS  3 Hrs.  
The best methods and forms of sprinting, distance running, hurdles, high and broad jumping, pole vaulting, shot putting, discus, javelin, and hammer throwing are considered. Programs for conditioning and training are outlined. Lectures, reports, demonstrations, and practice. M. W. F., 1:30.

* Not given in 1930-31.
252. **NORMAL DIAGNOSIS (Fall)** 2 Hrs.

253. **NORMAL DIAGNOSIS (Winter)** 2 Hrs.

The purpose of this course is to give the student a working knowledge of the giving of Health Examinations in order that he may differentiate between normal and abnormal conditions in the human body. This course will include: Recording of personal and family history, methods of making general health examinations, including special methods of examining the eyes, ears, nose, throat, spine, feet, and weighing and measuring. T. Th., 10:00.

254. **ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION—MEN AND WOMEN (Winter)** 3 Hrs.

A course dealing with the objectives, principles, and methods of organization and administration of physical education in elementary and secondary schools, colleges, normal schools, and playgrounds. It includes management of athletic sports, games and contests, intramural athletics, recreational clubs, camping, and hiking. M. W. F., 2:30.

255. **INDIVIDUAL GYMNASTICS (Spring)** 3 Hrs.

Lectures, demonstrations and practice in the organization and administration of corrective exercises for special physical defects. This course deals with the selection and prescription of exercise designed to correct various postural defects and deformities. M. W. F., 10:00.

258. **FIRST AID AND ATHLETIC TRAINING (Spring)** 2 Hrs.

Lectures, discussion and practice in the giving of First Aid in cases of emergency. The cause and prevention of accidents. Methods of scientific training and conditioning of athletic teams. The American Red Cross First Aid Certificate may be obtained by students who pass a satisfactory examination. T. Th., 10:00.

260. **HISTORY OF PHYSICAL EDUCATION (Fall)** 2 Hrs.

This course traces the evolution and development of physical education through ancient and modern times. It demonstrates the close relationship existing between certain elements in civilization and the status of physical education in that civilization. T. Th., 9:00.

263. **STUDENT TEACHING—PHYSICAL EDUCATION** 6 Hrs.

Students taking the four year course for the training of physical education supervisors and teachers are required to prepare a syllabus of the work covered, write lesson plans, hold conferences with the professor in charge and teach either in the University, Junior and Senior High School or Elementary School.
History

PROFESSOR BURKE AND PROFESSOR SCHIEBER

This department offers courses which give the student an understanding of the present from a knowledge of the past. The continuity of institutions is stressed rather than political events.

Students majoring in history are advised to select courses from both American and European fields. Such students should also plan to take courses from the allied fields of political science, sociology, and economics. English history is recommended for all students majoring in English literature. Language majors are advised to elect courses in European history.

First year courses: 101, 102, 103 or 113, 114, 115; second year courses: 121, 122, 123 or 104, 105, 106 or 116, 117, 118; third year courses: 207, 208, 209 or 219, 220, 221 or 216, 217, 250; fourth year courses: 210, 211, 212 or 213, 214, 215 or 224, 225, 226 or 222, 223.

101. HISTORY OF CIVILIZATION: EARLY PERIOD (Fall) 3 Hrs.
102. HISTORY OF CIVILIZATION: MIDDLE PERIOD (Winter) 3 Hrs.
103. HISTORY OF CIVILIZATION: MODERN PERIOD (Spring) 3 Hrs.

Three courses designed to furnish a survey of the history of civilization from primitive man to the present time. Two sections. M. W. F., 9:00 or 10:00.

104. ENGLISH HISTORY TO 1158 (Fall) 3 Hrs.
105. ENGLISH HISTORY: 1158-1783 (Winter) 3 Hrs.
106. ENGLISH HISTORY: 1783-1929 (Spring) 3 Hrs.

An introductory study of English history for those desiring a general knowledge of the subject or for those specializing in American history or English literature. Alternates with History 116, 117, 118. M. W. F., 2:30.

113. HISTORY OF THE UNITED STATES: 1763-1829 (Fall) 3 Hrs.
114. HISTORY OF THE UNITED STATES: 1829-1875 (Winter) 3 Hrs.
115. HISTORY OF THE UNITED STATES: 1875-1928 (Spring) 3 Hrs.

A general study of the political, constitutional and economic development in the United States from the beginning of the Revolutionary era to the present time. Three sections. M. W. F., 7:30, 11:00 or 3:30.

*122. HISPANIC AMERICAN HISTORY: COLONIAL PERIOD (Fall) 3 Hrs.

* Not given in 1930-31.
*117. Hispanic American History: The Republics  
(Winter) 3 Hrs.  
Latin American history and international relations constitute the work of these courses. Not open to first year students. M. W. F., 2:30.

*118. History of Canada (Spring) 3 Hrs.  
A study of Canadian history with special emphasis upon the relations of the mother country to Canada and the relations of Canada with the United States. M. W. F., 2:30.

120. The French Revolution and Napoleon  
(Summer) 3 Hrs.  
A study of the Revolutionary era in European history and the rise and fall of Napoleon.

121. Europe 1815-1870 (Fall) 3 Hrs.
122. The Background of the Great War (Winter) 3 Hrs.
123. The War, the Peace and the New Europe (Spring) 3 Hrs.  
These courses present as detailed a study as time permits, of European history from the Congress of Vienna to the present. The revolutionary movements, Italian and German unity, the Great War, its causes and results receive special emphasis. Not open to freshmen. T. Th. F., 11:00.

207. History of Antiquity: Prehistoric and Oriental (Fall) 3 Hrs.

208. History of Antiquity: Greek History (Winter) 3 Hrs.
209. History of Antiquity: Roman History (Spring) 3 Hrs.  
A series of courses presenting a survey of the history of the ancient world, including the development of the civilization of the near Orient, especially Egypt, Babylonia, Assyria, the Hebrews and Persia, a study of the Greek people from the earliest age, and Roman history to the time of Justinian. M. W. F., 4:30.

210. The Renaissance (Fall) 3 Hrs.
211. The Reformation (Winter) 3 Hrs.
212. The Absolute Monarchy in the Seventeenth and Eighteenth Centuries (Spring) 3 Hrs.  
European history from Dante to the French Revolution is the subject material for study in these courses. The civilization of the Renaissance, the Protestant revolt and the Catholic Reformation, the rise of absolute monarchies are topics which are especial objects of consideration. M. W. F., 1:30.

*213. The Expansion of Europe (Fall) 3 Hrs.  
* Not given in 1930-31.
*214. THE EXPANSION OF EUROPE IN THE NINETEENTH CENTURY (Winter) 3 Hrs.

*215. THE EXPANSION OF EUROPE (Spring) 3 Hrs.

European expansion from the fifteenth century to the present time. These courses alternate with history 210, 211, 212. M. W. F., 1:30.

*216. RECENT AMERICAN HISTORY: 1875-1900 (Fall) 3 Hrs.

*217. RECENT AMERICAN HISTORY: 1900-1929 (Winter) 3 Hrs.

An intensive study of the political, constitutional, industrial, and social life of the nation from the close of the Reconstruction period to the present time. Third party movements, the new democracy, the World War, and our entrance into world politics are some of the topics considered. Prerequisite: History 113, 114, 115. M. W. F., 9:00.

*219. THE DARK AGES: 180 A. D. TO 814 (Fall) 3 Hrs.

*220. THE FEUDAL AGE: 814 TO 1250 (Winter) 3 Hrs.

*221. THE END OF THE MIDDLE AGES: 1250 TO 1500 (Spring) 3 Hrs.

Three descriptive courses designed to furnish the student a comprehensive account of Europe during the Middle Ages. The late Roman Empire, the barbarian invasions, the Franks, Charlemagne, the Holy Roman Empire, church and papacy, feudalism, and the town movement are some of the items considered. These courses alternate with history 207, 208, 209.

222. AMERICAN DIPLOMACY TO THE CLOSE OF THE CIVIL WAR (Fall) 3 Hrs.

A survey of the foreign relations of the United States beginning with the diplomacy which resulted in the establishment of independence, and including such subjects as neutral rights, the origin of the Monroe Doctrine and the international controversies of the Civil War. Prerequisite: History 113, 114, 115. M. W. F., 9:00.

223. AMERICAN DIPLOMACY SINCE THE CLOSE OF THE CIVIL WAR (Winter) 3 Hrs.

Problems in the diplomacy of the United States since the Civil War, the development of the Monroe Doctrine, the acquisition of dependencies, relations with Latin America, the Far East, the World War, and the attitude of the United States towards peaceful settlement of diplomatic disputes. Prerequisite: History 113, 114, 115. M. W. F., 9:00.

226. THE FAR EAST (Spring) 3 Hrs.

This is an introductory course designed to acquaint the student with the trend of history in the Far East and with contacts between the East and West. Special emphasis is placed upon the developments of the nineteenth and twentieth centuries. M. W. F., 9:00.

* Not given in 1930-31.
227. **History Problems**  1-3 Hrs.

Minor investigations for qualified seniors who are taking a major in history.

250. **Teaching History (Spring)**  3 Hrs.

For general description of special methods courses see Division of Teacher Training.

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**Mathematics**

**Professor Fairchild and Professor Whitted**

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

Those who take mathematics are advised to complete courses 107, 108, and 109. Those who major in mathematics and prospective graduate students in mathematics, should complete courses 212, 213, and 217. Students in applied mathematics should follow course 109 by courses 212 and 213.

101a. **Freshman Mathematics (Fall)**  3 Hrs.
102a. **Freshman Mathematics (Winter)**  3 Hrs.
103a. **Freshman Mathematics (Spring)**  3 Hrs.

A survey course built around high school mathematics, acquainting the student with the meaning, practical uses and the possibilities in the general field of mathematics. Course continues through the year and may be elected as an alternative for science. Prerequisite: One unit of algebra and one unit of geometry. M. W. F., 9:00.

101. **College Algebra**  5 Hrs.

Topics: Rational fractions; binomial theorem; evolution; irrational fractions; quadratic equations; equations in quadratic form; simultaneous quadratic equations; ratio, proportion and variation; arithmetical, geometrical and harmonical progressions. Prerequisite: College entrance units, including one and one-half units high school algebra. Fall, 11:00 or 1:30; Winter, 2:30; Spring, 10:00.

102. **College Algebra**  4 Hrs.

Topics: Imaginary and complex numbers; logarithms; mathematical induction; theory of equations; determinants. Prerequisite: Mathematics 101. Winter, 9:00 or 10:00; Summer, 10:00.
103. TRIGONOMETRY 5 Hrs.
Topics: Definitions; trigonometric functions and equations; inverse functions; solutions of plane triangles with certain applications. Prerequisite: high school algebra (1½ units), plane and solid geometry (1½ units). Winter, 11:00 or 1:30; Spring, 2:30; Summer, 9:00.

104. SPHERICAL TRIGONOMETRY (Spring) 3 Hrs.
A course designed for students who plan to do practical work in astronomy and geodesy. Prerequisite: Mathematics 103. M. W. F., 10:00.

105. ANALYTICAL GEOMETRY 5 Hrs.
Topics: Loci and their equations; the straight line; the circle; graphs in rectangular and polar coordinates; transformations; conic sections; tangents; parametric equations and loci; space coordinates and loci, the plane, special and quadratic surfaces; empirical equations. Prerequisite: Mathematics 103. Spring, 11:00 or 1:30; Summer, 7:30 or 11:00.

*106. ANALYTICAL GEOMETRY OF SPACE (Winter) 3 Hrs.
Equations of the plane and right line in three dimensions; surfaces of the second degree; and classification of quadratic surfaces. Prerequisite: Mathematics 105. Note: This course alternates with 217. Winter, 10:00.

107. CALCULUS (DIFFERENTIAL) (Fall) 4 Hrs.
Topics: Functional notation; total and partial differentiation with certain applications; successive differentiation; differentials; implicit and explicit functions; convergence and divergence of infinite series; expansion of functions; indeterminate forms; maxima and minima of functions of one variable. Prerequisite: Mathematics 105. M. T. W. Th., 11:00 or 1:30.

108. CALCULUS (DIFFERENTIAL AND INTEGRAL) 4 Hrs.
Topics: Change of variable; maxima and minima of functions or two or more variables; direction of curves; tangents and normals; tangent plane and normal line; direction of curvature and radius of curvature; oscillating circle; envelopes; methods of integration by type of integrand; certain applications of simple integration. Prerequisite: Mathematics 107. Winter, 11:00 or 1:30.

109. CALCULUS (INTEGRAL) (Spring) 4 Hrs.
Topics: Integration by parts; reduction formulae; integration by substitution; integration as a summation with applications; successive integration and the application to surfaces; volumes; moment of inertia; center of gravity; fluid pressure; attraction at a point; hyperbolic functions; cycloid. Prerequisite: Mathematics 108. M. T. W. Th., 11:00 or 1:30.

* Not given in 1930-31.
110. **Conic Sections (Summer)**  
There are five different figures that can be made by a plane cutting a cone; a triangle, a circle, an ellipse, a parabola, and an hyperbola. The three last mentioned are commonly regarded as embracing the whole of conic sections. It is important to study these curves because of their application to astronomy and other sciences. **Prerequisite:** Plane geometry. M. W. F., 3:30.

111. **Descriptive Astronomy (Fall)**  
Topics: Reference points and lines; the constellations; the earth and its motion; time; the moon; the solar system; the planets, comets and meteors; the sun; the stars and nebulae. Eight hours of observations with notes are required. Not accepted toward a mathematics major. **Prerequisite:** Mathematics 103.

122. **Differential Equations (Fall)**  
Topics: Equations of the first order and degree; equations of the first order but not of the first degree; equations of the second order but not of the first degree; equations of the second order; linear equations with constant coefficients. **Prerequisite:** Mathematics 109. M. W. F., 10:00.

123. **Theoretical Mechanics (Spring)**  
Topics: Center of gravity; moment of areas and mass; moment of inertia; ellipse of inertia; kinematics of a point; kinetics of a material particle; work; energy; impulse; the simple pendulum. **Prerequisite:** Mathematics 109. Daily, 10:00.

126. **Calculus (Fall)**  
Topics: Plane areas by means of a double integration; volumes by triple integration; moment of inertia; center of gravity; fluid pressure; centroid of solids; hyperbolic functions; cycloid. **Prerequisite:** Mathematics 108, 109. M. T. W. Th., 2:30.

127. **Theory of Equations and Determinants (Winter)**  
Algebraic equations of one unknown; systems of simultaneous equations and determinants. **Prerequisite:** Mathematics 105, 107. M. W. F., 10:00. (Note: This course alternates with 106).

1250. **Teaching Mathematics**  
For general description of special methods courses see Division of Teacher Training.
Modern Languages

Professor Davis, Miss Pohle, and Mr. Brokaw

The study of a modern foreign language should enable a person to use it conversationally, to read it for literary and scientific purposes, and to write it for business correspondence. The courses in this department are designed to meet both cultural and practical needs. The advanced courses afford opportunity for the students to major in modern languages. If a student expects to do graduate work, or to specialize in science, he should have a working knowledge of two modern languages, preferably two years of French and German. Students looking forward to a business career should plan their courses so as to include at least two years of French or Spanish, or both.

Two majors are offered in this department, as follows:

I. Major in Modern Languages. Requirement, 36 hours in two languages exclusive of elementary French, and including 18 hours of upper division work in French, and six hours of advanced work in a second modern language.

II. Major in French. Requirement, 36 hours in French, of which 24 hours must be in upper division courses.

The requirement for a minor in French, Spanish, or German is 24 hours in one language.

FRENCH

Introductory Courses

101. Elementary French (Fall) 3 Hrs.
102. Elementary French (Winter) 3 Hrs.
103. Elementary French (Spring) 3 Hrs.
104. Intermediate French (Summer) 5 Hrs.

These courses are designed for students who do not present entrance credits in French, but desire a working knowledge of the language. They comprise the essentials of grammar, the acquisition of a working vocabulary, practice in irregular verbs and idioms, and in speaking and reading the language. Special stress is laid on the mastery of a good pronunciation by the use of phonetics. No credit is given for French 101 until French 102 is completed. Two sections, M. W. F., 7:30 or 1:30. French 101, Summer, 1:30. French 104, Summer, 10:00.
Advanced Courses

105. **Introduction to French Literature (Fall)** 3 Hrs.
106. **Survey of 18th and 19th Century Literature (Winter)** 3 Hrs.
107. **Modern Tendencies in French Literature (Spring)** 3 Hrs.
108. **Masterpieces of French Literature (Summer)** 3 Hrs.
   French 105, 106, and 107, treat of the literature of the Renaissance and Classical periods in relation to modern forms and influence on English literature; of the philosophic, romantic and realistic periods, and the democratic tendencies of modern literature. French 108 is a study of the masterpieces of French literature selected for summer school students. Prerequisite: Two units of high school French or French 101, 102, 103. M. W. F., 11:00.

120. **Composition (Fall)** 2 Hrs.
121. **Phonetics (Winter)** 2 Hrs.
122. **History of French Civilization (Spring)** 2 Hrs.
   These courses correlate with French 105, 106, and 107 and furnish practice in oral and written French. The course in phonetics (formerly French 124) is required of all expecting to teach French in high school, and French 122 (formerly French 121) is a course in the history of France from the earliest time to the present day from class texts and assigned reading. T. Th., 11:00.

109. **Early French Novel (Fall)** 3 Hrs.
110. **Nineteenth Century Novel (Winter)** 3 Hrs.
111. **Modern Novel (Spring)** 3 Hrs.
112. **French Poetry (Summer)** 3 Hrs.
   These courses offer a rapid reading survey of the French novel in intensive study of representative texts of different periods, and extensive collateral reading. French 112 is a survey of the lyric poetry from texts, music and phonograph records. Prerequisite: Two units of high school French or French 101, 102, 103. M. W. F., 2:30.

129. **Advanced Review Grammar (Fall)** 2 Hrs.
130. **Advanced Composition (Winter)** 2 Hrs.
131. **Advanced Conversation (Spring)** 2 Hrs.
   French 129 (formerly French 231) is a systematic study of French grammar from the teaching standpoint. French 130 consists of drill in the use of more difficult idioms and subtleties of the French language, with oral and written practice. French 131 (formerly French 229) deals with diction, "causeries," memorator work, and discussions in French from texts and outside assignments. Required of prospective teachers of French and majors in French. T. Th., 2:30.
201. **17TH AND 18TH CENTURY DRAMA (Fall)** 3 Hrs.
202. **19TH CENTURY DRAMA (Winter)** 3 Hrs.
203. **MODERN DRAMA (Spring)** 3 Hrs.
204. **DRAMA FOR HIGH SCHOOLS (Summer)** 3 Hrs.

These courses in drama (formerly French 13, 14, 25, and 32) are studies, both intensively and extensively, of the French drama with a view of showing the dramatic treatment of certain periods and social questions, and giving especial attention to some of the texts suitable for high school classes. These courses are third year college courses. Required of prospective teachers. M. W. F., 3:30.

215. **SOCIAL IDEALS IN EARLY FRENCH LITERATURE (Fall)** 2 Hrs.
216. **SOCIAL IDEALS IN 17TH AND 18TH CENTURIES (Winter)** 2 Hrs.
217. **SOCIAL IDEALS IN 19TH AND 20TH CENTURIES (Spring)** 2 Hrs.

Advanced elective courses in French literature correlated with French 226, 227, and 228, dealing with selections from the Middle Ages to the present day, especially the types of the “chevalier”; the “esclavon”; the “man of the Renaissance”; the “well-bred man” of the 17th century; the 18th century “philosopher”; the “romanticist” of the 19th century; and the “intellectualism” of Renan and Anatole France. T. Th., 9:00.

218. **SCIENTIFIC FRENCH (Winter)** 2 Hrs.

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

250. **TEACHING MODERN LANGUAGE (Spring)** 3 Hrs.

For general description of special methods courses see Division of Teacher Training.

**SPANISH**

*Introductory Courses*

101. **ELEMENTARY SPANISH (Fall)** 3 Hrs.
102. **ELEMENTARY SPANISH (Winter)** 3 Hrs.
103. **ELEMENTARY SPANISH (Spring)** 3 Hrs.
104. **INTERMEDIATE SPANISH (Summer)** 5 Hrs.

Advanced Courses

*105. Survey of Spanish Literature (Fall)  3 Hrs.
*106. Classical Writers (Winter)  3 Hrs.
*107. Modern Writers (Spring)  3 Hrs.
    The history of Spanish literature from the origins to the present time, with assigned readings from an anthology and collateral reading of different periods, with conversation based on the texts read. Alternate with Spanish 110, 111, 112. M. W. F., 9:00.

110. Survey of Spanish Drama (Fall)  3 Hrs.
111. Modern Spanish Drama (Winter)  3 Hrs.
112. Spanish Poetry (Spring)  3 Hrs.
    These courses furnish an intensive study of a number of representative dramatists and poets, with collateral reading and reports. M. W. F., 9:00.

113. Advanced Composition (Fall)  2 Hrs.
114. Commercial Spanish (Winter)  2 Hrs.
116. Spanish Conversation (Spring)  2 Hrs.
    These courses are intended to give the student a working knowledge of business forms and methods by use of correspondence representing actual business transactions. They correlate with Spanish 110, 111, 112.

GERMAN

Introductory Courses

101. Elementary German (Fall)  3 Hrs.
102. Elementary German (Winter)  3 Hrs.
103. Intermediate German (Spring)  3 Hrs.
104. Intermediate German (Summer)  5 Hrs.
    Pronunciation, essentials of grammar, composition, verb drill and easy graded reading preparatory to reading classical literature and scientific texts and periodicals. M. W. F., 7:30.

Advanced Courses

105. Survey of German Literature (Fall)  3 Hrs.
106. Modern Prose and Poetry (Winter)  3 Hrs.
107. Modern German Drama (Winter)  3 Hrs.
    An outline of German literature from the beginning to the present time. Selections chosen from different periods to show the trend and influence of German literature on the literature of other lands. M. W. F., 10:00.

* Not given in 1930-31.
110. **Schiller and Lessing (Fall)**  2 Hrs.
111. **Goethe (Winter)**  2 Hrs.
112. **The Romantic Period (Spring)**  2 Hrs.
   These three courses are given in alternate years with German 105, 106, 107. T. Th., 10:00.

113. **German Composition (Fall)**  2 Hrs.
   Practice in writing simple German. This course may be taken concurrently with German 105. T. Th., 9:00.

*118. **Scientific German (Winter)**  2 Hrs.
   This course endeavors by means of texts and scientific periodicals to enable the student to read technical literature. Required of pre-medical students. Prerequisite: Four quarters of German. T. Th., 9:00.

**Music**

**Professor Evans, Professor Lamale, Mr. Willihnganz, and Miss Moore**

(For complete description of the courses in the Department of Music see the music section of this catalogue.)

* Not given in 1930-31.
Physics

PROFESSOR BERGER AND ASSISTANTS

Courses 109, 110, 111; 213, 214; and at least 9 hours from
216, 217, and 218 must be included in a physics major. Students
planning to take a major in this department should schedule
mathematics 101, 103, and 105 during freshman year.

104. GENERAL PHYSICS (Fall) 5 Hrs.
105. GENERAL PHYSICS (Winter) 5 Hrs.
106. GENERAL PHYSICS (Spring) 5 Hrs.

A year of college physics for engineers. Prerequisite:
High school physics and mathematics 105. Recitations, M.
T. W. Th., 9:00; laboratory, any afternoon, one three-hour
period.

109. GENERAL PHYSICS (Fall) 5 Hrs.
110. GENERAL PHYSICS (Winter) 5 Hrs.
111. GENERAL PHYSICS (Spring) 5 Hrs.

A year of work in college physics. Open to sopho-
mores in Liberal Arts. Prerequisite: One year of high
school algebra and plane geometry. Recitation, M. T. W. Th.,
4:30; laboratory, any afternoon, one three-hour period.

213. ADVANCED MECHANICS (Fall) 5 Hrs.

A course in mechanics problems. Prerequisite:
Physics 111 and calculus. Daily, 10:00.

214. MATHEMATICS OF PHYSICS (Spring) 5 Hrs.

A course dealing with the application of mathematics
to physics and related sciences. Prerequisites: Physics
111 and calculus. Daily, 3:30.

216. ADVANCED LABORATORY: MECHANICS

217. ADVANCED LABORATORY: LIGHT, HEAT, SOUND

218. ADVANCED LABORATORY: ELECTRICITY

Credit is given in courses 216, 217, and 218 according
to the amount of work done. However, not more than 6
hours of credit may be earned in any one of the three
courses. Offered every quarter. Prerequisite: Physics
109, 110, 111 and mathematics 103. Calculus is recom-
mended. Two three-hour laboratory periods each week.

220. MODERN PHYSICS (Winter) 3 Hrs.

A lecture and quiz course involving fundamental ques-
tions on the nature of things, such as atomic structure,
electron theory, quantum theory, and the theory of relati-

250. TEACHING PHYSICS AND CHEMISTRY (Spring) 3 Hrs.

For general description of special methods courses see
Division of Teacher Training.
Political Science

Professor Binkley

The courses offered in Political Science are designed to provide the student with such an understanding as an educated citizen ought to have of the operation of society organized in bodies politic. It is expected that these courses will aid in equipping the student with the ability to interpret public problems, propose solutions for them, and eventually contribute to the formation of sound public opinion. Some of the courses are organized to prepare those who expect to enter the public service. Pre-law students are offered the courses particularly useful for the profession of law. Finally, the student who is planning to pursue graduate work in political science will find courses to prepare him for intensive study in this field.

101. American Government (Fall) 3 Hrs.
102. American Government (Winter) 3 Hrs.
103. American Government (Spring) 3 Hrs.

A brief survey of the origin of constitutional government in America followed by a somewhat detailed examination of our national and state governments; also a brief examination of municipal and other local governments. Due emphasis is placed upon the organization and activity of political parties as well as the important part played by public opinion in the operation of government. Two sections. M. W. F., 7:30 or 1:30; Summer, 7:30.

120. Current Problems (Fall) 2 Hrs.
121. Current Problems (Winter) 2 Hrs.

Political problems that command public attention are considered with a view to preparing the student to think independently in seeking solutions and contributing to a sound public opinion. T. Th., 3:30.

204. Municipal Government (Winter) 3 Hrs.
205. Municipal Administration (Spring) 3 Hrs.

Two courses dealing with a comparative and historical study of the activities, functions and problems of European and American cities. Special emphasis is placed on recent tendencies toward change in the form of city government and on meeting the new problems arising therefrom. In studying the government of European cities special consideration is given to such features as may be used to advantage in the cities of the United States. Prerequisite: Political Science 101, 102, 103. M. W. F., 2:30.
207. **COMPARATIVE GOVERNMENT (Fall)**  5 Hrs.
A study of the problems of foreign governments based upon a comparison of the modern constitutions of European and American states with a view to testing our own constitutional principles and practice by such comparison. Prerequisite: Political Science 101, 102, 103. Daily, 2:30.

*210. **AMERICAN POLITICAL PARTIES (Winter)**  3 Hrs.
A brief survey of the development of political parties in the United States followed by an investigation of the psychological, sociological, and practical aspects of the phenomena of political parties. Prerequisite: Nine hours of political science or the consent of the instructor. M. W. F., 10:00.

211. **POLITICAL SCIENCE PROBLEMS**  3 Hrs.
Individual investigation in the field of political science. Open to qualified seniors majoring in this department.

*212. **AMERICAN POLITICAL THEORIES (Spring)**  3 Hrs.
The development of American political theories from the Colonial period to the present with a view to providing a basis for rational approach to the solution of our present political problems. Prerequisite: Nine hours of political science or the consent of the instructor. M. W. F., 10:00.

213. **AMERICAN CONSTITUTIONAL LAW (Spring)**  3 Hrs.
A non-technical approach to the fundamental principles of American constitutional law including a study of the most important cases. Prerequisite: Nine hours of political science or the consent of the instructor. M. W. F., 10:00.

214. **PUBLIC ADMINISTRATION (Winter)**  3 Hrs.
A study of the problems and fundamental principles of administration in modern governments, national, state, and local. Prerequisite: Political science 101, 102, 103 or the consent of the instructor. M. W. F., 10:00.

224. **CONSTITUTIONAL HISTORY OF THE UNITED STATES (Fall)**  2 Hrs.
225. **CONSTITUTIONAL HISTORY OF THE UNITED STATES (Winter)**  2 Hrs.
226. **CONSTITUTIONAL HISTORY OF THE UNITED STATES (Spring)**  2 Hrs.
A study of the political ideas of the American Revolution; the controversies over the framing of the Constitution and the establishing of the national government; the slavery controversy; the Civil War and resulting problems and the further constitutional development to the present day. Prerequisite: Political Science 101, 102, 103, and History 113, 114, 115. T. Th., 1:30.

* Not given in 1930-31.
Psychology and Sociology

PROFESSOR GRAY

The purpose of this department is to acquaint the student with the traits of human nature and the problems of social organization in order that he may become (1) a better citizen, (2) a more efficient teacher, and (3) better able to further his interests and studies either in private life or in institutions of learning.

101. GENERAL PSYCHOLOGY (Fall) 5 Hrs.
A general study of mental processes, aiming to train the student to observe these processes in his own and the experiences of others. Prerequisite: One year of college work. Two sections, Daily, 7:30 or 3:30.

102. APPLIED PSYCHOLOGY (Winter) 5 Hrs.
A course dealing with the relationship of modern psychology to the personality and competence of individuals regardless of their activity. Prerequisite: Psychology 101. Daily, 11:00 or 3:30.

104. SOCIAL PSYCHOLOGY (Spring) 3 Hrs.
This course treats of the processes of interpersonal relations and their resultant by analyzing personal experiences. Prerequisite: Psychology 101. M. W. F., 3:30.

135. EDUCATIONAL PSYCHOLOGY (Fall) 3 Hrs.
A course designed for students who wish to continue the study of educational psychology; heredity and environment, physical basis of behavior; intelligence, instincts, emotions, attitudes; learning process; association; memory; transfer of training; mental work and fatigue. Formerly course 202. Prerequisite: General psychology 101 or educational psychology 101. M. W. F., 10:00.

136. ADOLESCENT PSYCHOLOGY (Winter) 3 Hrs.
An intensive study of the problem of growth; systematic psychology and personality of adolescence; applied problems in junior and senior high schools. Formerly course 204. Prerequisite: General psychology 101, or educational psychology 101. M. W. F., 10:00.

137. PSYCHOLOGY OF SECONDARY SCHOOL SUBJECTS (Spring) 3 Hrs.
A study of the mental processes involved in learning the secondary school subjects. Formerly course 206. Prerequisite: General psychology 101, or Educational psychology 101. M. W. F., 10:00.
210. **ABNORMAL PSYCHOLOGY (Spring)** 5 Hrs.

   This course is an introduction to the study of problems of mental health, and is designed to meet the needs of students of education and pre-professional courses. Prerequisite: Psychology 101, 102. M. W. F., 11:00.

212. **PSYCHOLOGICAL PROBLEMS** 1-3 Hrs.

   Open only to qualified seniors taking a major or minor in psychology.

201. **GENERAL SOCIOLOGY (Fall)** 3 Hrs.

202. **GENERAL SOCIOLOGY (Winter)** 3 Hrs.

   A study of the phenomena of social life; the basis of society in nature; the social person; social institutions; social order and process. The course is designed to give an introduction to theoretical and practical sociology, and to systematize the reading, observation, and thinking of the student. Courses 201 and 202 are prerequisite to other courses in sociology. Open to juniors and seniors. M. W. F., 1:00.

203. **AMERICAN SOCIETY (Spring)** 3 Hrs.

   A survey of the causes of the maladjustments of modern society, including such problems as child labor, poverty, crime, race, public health, dependency, and personality. Prerequisite: Sociology 201, 202. M. W. F., 1:00.

### Speech

**PROFESSOR DEMING AND PROFESSOR FREEMAN**

Whatever the life work of a student may be, contacts with people must be made. Elegant speech is an art and should be acquired. Pre-professional students are strongly advised to elect courses in Speech.

101. **PUBLIC SPEAKING (Fall)** 3 Hrs.

   The technical side of speech is emphasized; the fundamentals of voice production, action and platform deportment; speech construction, principles and practice; selection and arrangement of material; and the development of self-confidence in thinking while before an audience. M. W. F., 7:30.

102. **PUBLIC SPEAKING (Winter)** 3 Hrs.

103. **Literary Interpretation (Spring)**  
3 Hrs.

The analysis of literary selections for thought and emotion content; practice in the use of the voice to interpret mental and emotional states. The work of the course deepens the student’s own literary appreciation and helps him to awaken others to a fuller sense of the beautiful in literature. M. W. F., 1:30.

110. **Argumentation (Fall)**  
3 Hrs.

111. **Argumentation (Winter)**  
3 Hrs.

Two courses given to a detailed study of the principles of argumentation; practice in brief-making and debating. No credit is given unless both courses are completed. Formerly listed as English 103 and 123. Prerequisite: English 101, 102. M. W. F., 2:30.

112. **Dramatic Technique (Fall)**  
2 Hrs.


113. **Recital (Spring)**  
3 Hrs.

The work of this recital is of sophomore grade. Hours by arrangement with instructor.

220. **Interpretative Reading (Fall)**  
3 Hrs.

The art of effective oral reading. Analysis of forms of literature; technical and psychic exercises and problems; modulations of voice; speech correction; and presentation of the intellectual and emotional content of the printed page. Each student is assigned literary selections for vocal interpretation. This course is especially recommended for those who expect to teach English. M. W. F., 9:00.

221. **Play Directing (Winter)**  
3 Hrs.

A laboratory course dealing with the problems of the actor of amateur plays. Practice in organizing players and presenting plays. It is expected that those who desire membership in the Northern Players will register for this course. Prerequisite: Speech 103, 220. T. W. Th., 2:30.

*222. **Extempore Speaking (Spring)**  
2 Hrs.

This course for advanced students aims at developing facility in organization and presentation of various kinds of speech material, for example: Courtesy, expository, after-dinner, pulpit, campaign, and commemorative. Platform etiquette and practice in speech are stressed. Prerequisite: Speech 101, 102. T. Th., 2:30.

* Not given in 1930-31.
223. **Orators and Oratory (Spring)**

A study of the history of the outstanding periods; an examination of the methods of the orator, and an analysis and presentation of selected speeches dealing with political, legal and social problems. The platform delivery of an original oration is required. Prerequisite: Speech 101. T. Th., 2:30.

230. **Intercollegiate Debate (Fall)**

Members of the debate teams are selected by competitive tryouts to which any student in good standing is eligible. Intensive study, investigation and practice on intercollegiate questions. The work is carefully supervised and credited according to the quality and quantity of work done.

231. **Shakespearian Reading (Winter)**

Plays are critically studied from standpoint of platform presentation; relation of personation and impersonation; plot, incident and character analysis. Expressional reading of selected speeches and scenes from the platform. Prerequisite: Speech 103. T. W. Th., 3:30.

232. **High School Dramatics (Spring)**

A careful study of the problems of amateur dramatics relating to the technique of acting and stagecraft as they affect the teacher who is called upon to direct high school plays. The director's responsibilities and opportunities in the public school and community. Prerequisite: Some training in the speech arts or by consent of the instructor. T. Th., 3:30.

233. **Advanced Recital (Spring)**

For students majoring in Speech who expect to do platform work. The work is selected to meet the particular needs of the individual, and consists of the preparation and presentation of one long program in public.

*Private Lessons*

Individual attention is given to students who are preparing for platform work. Individual demands for which classroom work is inadequate are met. Students may register for private lessons on a credit basis of one hour credit for twelve lessons, the total number of credit hours earned depending upon the quantity of work done. Fee, $1.50 for each private lesson.
DIVISION OF TEACHER TRAINING

Professor Frank L. Loy
Director of Teacher Training

Professor Walter Gray

Professor Winona Pearl Geeting

Professor Maud Haley

(To be supplied)

The Teacher Training work at Ohio Northern University, organized within the College of Liberal Arts, is designed to aid its students in forming clear conceptions of the dignity and importance of the teacher's work; to trace in the history of education the origin and development of modern principles of teaching; to present in theory and practice approved and rational methods of instruction; to create and maintain high professional standards among present and prospective teachers; and to offer such courses for the professional training of teachers as will broaden their horizon and advance them to higher planes of usefulness, ability and service.

The Ohio Northern University is accredited by the State Department of Education to train teachers in the regular Elementary and Secondary Fields and to train supervisors and teachers of Health and Physical Education and Public School Music. Those who complete the courses described in the following pages will be granted the state Four-Year Provisional Certificate, and, after twenty-four months of successful teaching experience, the certificate may be made permanent by the State Board of Examiners of Ohio.
I. ELEMENTARY EDUCATION

Grades One to Six

Ohio Northern University offers two and four-year curricula for the training of elementary teachers. The two-year curriculum leads to a diploma, and the four-year curriculum leads to the degree, Bachelor of Science in Education. Either curriculum entitles the student to the State Elementary Four-Year Provisional Certificate.

It is desirable that students enroll for at least two years of training. Teachers whose period of training has been brief, will experience difficulty in finding a position.

During the freshman year, the student will be required to take diagnostic tests in arithmetic, geography, history and English to determine his knowledge of the content of these subjects. Students failing in any of these tests will be assigned to non-credit courses until their deficiencies are made up.

In the training of elementary teachers, two specialized curricula are offered: one trains especially for kindergarten-primary work, while the other is designed for those desiring to teach in the intermediate grades. As the certification laws now stand, the student taking the elementary curriculum can teach in grades seven and eight. It is recommended that students desiring to teach in the junior high school take the four-year course for the training of junior and senior high school teachers. The High School Standards now require four years of training for both junior and senior high school teachers.
### Two-Year Curriculum for the Training of Primary Teachers

#### First Year

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<tr>
<th>FALL QUARTER</th>
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<tbody>
<tr>
<td>Physical Education 101</td>
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<tr>
<td>Educational Biology 123</td>
<td>Educational Psychology 112</td>
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<tr>
<td>English 101</td>
<td>English 102</td>
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<tr>
<td>Primary Literature and</td>
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<tr>
<td>Teaching of Reading 117</td>
<td>Teaching of Reading 117a</td>
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<tr>
<td>Public School Music 124</td>
<td>Professionalized Course in</td>
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<td>Arithmetic 120</td>
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<td>Professionalized Course in</td>
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<td>Public School Music 125</td>
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#### SPRING QUARTER

| Physical Education 103               | 1 |
| Elementary Observation 122           | 5 |
| Health Education 117                 | 3 |
| Professionalized Course in Arithmetic 119 | 3 |
| Child Psychology 152                 | 3 |
| Public School Music 126               | 1 |

#### Second Year

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<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
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<tr>
<td>Principles of Education 152</td>
<td>Principles of Education 153a</td>
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<tr>
<td>History 101</td>
<td>History 102</td>
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<tr>
<td>Interpretative Reading and Speech Improvement 105</td>
<td>Professionalized Course in Geography 156</td>
</tr>
<tr>
<td>American Poetry 121</td>
<td>English Grammar 201</td>
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<tr>
<td>Professionalized Course in Geography 155</td>
<td>Organization and Administration of Elementary Schools 107</td>
</tr>
<tr>
<td>Professionalized Course in Industrial Arts 140</td>
<td>Professionalized Course in Industrial Arts 141</td>
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#### SPRING QUARTER

| Physical Education 106               | 1 |
| Student Teaching and Technique of Teaching 170 | 6 |
| Teaching of History 176               | 3 |
| Theory and Practice of Plays and Games 156 | 3 |
| History 103                           | 3 |
| Professionalized Course in Industrial Arts 142 | 1 |
**Two-Year Curriculum for the Training of Intermediate Teachers**

**First Year**

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<tr>
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<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
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<td>Educational Biology 123</td>
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<td>Teaching of Reading 118</td>
<td>Teaching of Reading 118a</td>
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<td>Public School Music 124</td>
<td>Professionalized Course in</td>
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<td>Public School Music 125</td>
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**SPRING QUARTER**

| Physical Education 103                |
| Elementary Observation 123            |
| Health Education 117                  |
| Professionalized Course in            |
| Arithmetic 120a                       |
| Child Psychology 152                  |
| Public School Music 126               |

**Second Year**

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<td>Physical Education 104</td>
<td>Physical Education 105</td>
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<td>Geography 157</td>
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<td>English Grammar 201</td>
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<td>Organization and Administra-</td>
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<td>Geography 155</td>
<td>tion of Elementary School</td>
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<td>Professionalized Course in</td>
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<tr>
<td>Industrial Arts 140</td>
<td>Industrial Arts 141</td>
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**SPRING QUARTER**

| Physical Education 106                |
| Student Teaching and Technique of Teaching 171 |
| Teaching of History 176               |
| Theory and Practice of Plays and Games 156 |
| History 103                           |
| Professionalized Course in            |
| Industrial Arts 142                   |
Graduates from the Two-Year Elementary Curricula may receive the degree, BACHELOR OF SCIENCE IN EDUCATION, by completing the following curriculum:

### Third Year

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<tr>
<th>FALL QUARTER</th>
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<tbody>
<tr>
<td>History of Education 209</td>
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<tr>
<td>Economics 121 or American Government 101</td>
<td>Educational Psychology 202</td>
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<tr>
<td>History 113 or 121</td>
<td>Economics 122 or American Government 102</td>
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<tr>
<td>Zoology 101 or Botany 107</td>
<td>History 114 or 122</td>
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<td>Zoology 102 or Botany 108</td>
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### SPRING QUARTER

| Educational Sociology 201      | Economics 123 or American Government 103 |
| History 115 or 123             | Zoology 103 or Botany 109                |
| Electives                     |                                             |
| 3                             | 3                            |
| 3                             | 3                            |
| 3                             | 3                            |
| 4                             |                                             |

### Fourth Year

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<tr>
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<tr>
<td>Philosophy of Education 3</td>
<td>Educational Measurements</td>
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<tr>
<td>English</td>
<td>and Statistics 229</td>
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<td>Electives</td>
<td>English</td>
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### SPRING QUARTER

| Supervision of Instruction 253 | Student Teaching 4 |
| Electives                      | 9                   |

For sequence of major and minor courses see pages 111 to 113.
II. SECONDARY EDUCATION

A. PROFESSIONAL REQUIREMENTS

(1) Educational Psychology—six hours.
    Psychology 135, 136, or 137.

(2) Principles of Education—six hours.
    Principles 207, 208.

(3) School Administration—three hours.
    Administration 251, or 252.

(4) Special Methods or professionalized subject matter courses in teaching major—three to five hours.
    Education 250.

(5) Observation and Participation, including Classroom Management—five hours.
    Education 215.

(6) Student Teaching, including Technique of Teaching—six hours.
    Education 270.

(7) Electives. Fifteen hours may be offered as electives in Education from the following:
    General Psychology 101, Education 136, or 137, 138, 139, 211, 229, 251, or 252, 253.

The above courses meet the professional requirements of the Ohio Department of Education.

The minimum professional requirements are 36 quarter hours.

The professional requirements for the various states may be secured from the Director of the Division of Teacher Training.

In order to secure the proper correlation with academic courses the student is expected to distribute the work in Education over several quarters. The following sequence is very desirable:

Second year: Educational Psychology 135, 136, or 137.
Third year: Principles of Education 207, 208; Special Methods and Observation.
Fourth year: Administration 251, 252; Observation (if not completed), and student teaching.
B. MAJOR AND MINOR SUBJECTS

All candidates for the degree of Bachelor of Arts who expect to teach must have a teaching major of 36 quarter hours and two minors of 18 quarter hours each. Students should confer with their advisers before electing their major and minor subjects. Twenty-four hours constitute a minor in English and Modern Languages.

LIST OF MAJORS OR MINORS

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>H. S. Units</th>
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<tbody>
<tr>
<td>English (including Public Speaking)</td>
<td>3</td>
</tr>
<tr>
<td>History (including Political Science)</td>
<td>2</td>
</tr>
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<td>Home Economics</td>
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<td>Mathematics</td>
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<td>2</td>
</tr>
<tr>
<td>Latin</td>
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<tr>
<td>Social Science (including Economics, Sociology, etc.)</td>
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<tr>
<td>Biological Science (Physiology, Botany, Zoology, etc.)</td>
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<tr>
<td>Physical Science (Chemistry, Physics, General Science, etc.)</td>
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<tr>
<td>Earth Science (Geology, Physiography, Geography)</td>
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</table>

Students should take the courses in the major and minor subjects in the order given below. Failure to follow the major and minor sequences may result in loss of credit.

SEQUENCES OF COURSES IN MAJORS AND MINORS

BIOLOGICAL SCIENCE

Major

First Year—Biology 107, 108, 109 or 101, 102, 103.
Second Year—Biology 101, 102, 103 or 107, 108, 109, 110.
Third year—Biology 106, 113, 218 or 222; 224; 250.
Fourth Year—Biology 217; 219, 220.

Minor

Second Year—Biology 101, 102, 103.
Third Year—Biology 110, 217.
Fourth Year—Biology 219.
Note: Entrance requirement 1 unit of science.
CHEMISTRY

Major
First Year—Chemistry 101a, 102a, 103a or 101, 102, 103.
Second Year—Chemistry 104, 105, 106.
Fourth Year—Chemistry 211.

Minor
First Year—Chemistry 101a, 102a, 103a or 101, 102, 103.

ENGLISH

Major
First Year—English 101, 102, 102a.
Second year—English 121, 122, 122a or Speech 110 and 111.
Third year—English 217, 218, 219; 205, 225; 250.
Fourth Year—English 211, 215, 216 or 204, 224.

Minor
First Year—English 101, 102, 102a.
Second Year—English 121, 122 or Speech 103, 123.
Third Year—English 210, 211.
Fourth Year—English 216.
Note: Entrance requirement 3 or 4 units.

FRENCH

Major
First Year—French 105, 106, 107 or 120, 121, 122.
Second Year—French 109, 110, 111.
Third Year—French 201, 202, 203, 204; 250.
Fourth year—215, 216, 217.

Minor
First Year—French 105, 106, 107; 120, 121, 122.
Second Year—French 109, 110, 111.
Third year—French 201, 202, 203.
Note: Entrance requirement 2 units.

GERMAN

Minor
First Year—German 105, 106, 107.
Second Year—German 113, 118.
Third Year—German 110, 111, 112.
Note: Entrance requirement 2 units.

HISTORY

Major
First Year—History 113, 114, 115 or 101, 102, 103.
Second Year—History 104, 105, 106 or 121, 122, 123.
Third Year—History 210, 211, 212; 250.
Fourth Year—History 222, 223, 226, 227.

Minor
First Year—History 113, 114, 115.
Second year—History 104, 105, 106.
Third year—History 210, 211, 212.
Note: Entrance requirement 2 units.
HISTORY-ECONOMICS

Major
First Year—History 113, 114, 115 or 101, 102, 103.
Second Year—Economics 121, 122, 123.
Third Year—Economics 204 and History 210, 211, 212.
Fourth Year—Economics 207 and History 210, 211, 212.
Note: Combined major 50 hours, 30 hours of which must be History.

HISTORY-POLITICAL SCIENCE

Major
First Year—History 113, 114, 115 or 101, 102, 103.
Second Year—Political Science 101, 102, 103.
Third Year—Political Science 207, 204, 205; History 250.
Fourth Year—Political Science 213, 214 and History 210, 211, 212.
Note: Entrance requirement 2 units.
Note: Combined major 50 hours, 30 hours of which must be History.

LATIN

Minor
First Year—Latin 110, 111, 112.
Second year—Latin 115, 116, 117.
Third year—Latin 120, 121, 122; 250.
Note: Entrance requirement 4 units.

MATHEMATICS

Major
First Year—Mathematics 101, 103, 105.
Second Year—Mathematics 102; 107, 108, 109
Third year—Mathematics 104; 106, 212; 250.
Fourth Year—Mathematics 213, 216, 217.

Minor
First Year—Mathematics 101, 102.
Second Year—Mathematics 105.
Note: Entrance requirement 2½ units.

PHYSICS

Minor
Second year—Physics 109, 110, 111.
Third year—Physics 213, 214, 220.
Note: Entrance requirements, mathematics 2½ units and physics 1 unit.

HEALTH AND PHYSICAL EDUCATION

Minor
First Year—Physical Education 115, 116.
Second Year—Physical Education 151, 152.
Third Year—Physical Education 201, 202, 203 and 221 or 222 or 223.
Fourth Year—Physical Education 252, 258.

SPANISH

Minor
First year—Spanish 105, 106, 107.
Second year—Spanish 110, 111, 112.
Third year—Spanish 113, 114, 115 or 116, 117, 118.
Note: Entrance requirement 2 units.
Public School Music

This course is designed for students who wish to prepare themselves for the teaching and supervision of music in the public schools. Students completing this course will receive the degree Bachelor of Science in Education and the Four-Year Provisional Certificate from the State Department of Education.

**Curriculum for Teachers and Supervisors of Public School Music**

**Note:** For description of music courses see Department of Music.

### First Year

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<thead>
<tr>
<th>FALL QUARTER</th>
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<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
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<tr>
<td>History of Civilization 101</td>
<td>History of Civilization 102</td>
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<tr>
<td>English 101</td>
<td>English 102</td>
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<tr>
<td>Survey of Music 101</td>
<td>History of Education 138</td>
</tr>
<tr>
<td>Elementary Sight Singing and Ear Training 101</td>
<td>Elementary Sight Singing and Ear Training 102</td>
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<tr>
<td>Piano 101</td>
<td>Piano 102</td>
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<tr>
<td>Voice 101</td>
<td>Voice 102</td>
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### Spring Quarter

| Physical Education            | Physical Education              |
| History of Civilization 103   | History of Civilization 103     |
| English 102a                  | English 102a                    |
| Educational Psychology 152    | Educational Psychology 152      |
| Elementary Sight Singing and Ear Training 103 | Elementary Sight Singing and Ear Training 103 |
| Piano 103                     | Piano 103                       |
| Voice 103                     | Voice 103                       |

### Second Year

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<tr>
<th>FALL QUARTER</th>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Intermediate Sight Singing and Ear Training 104</td>
<td>Intermediate Sight Singing and Ear Training 105</td>
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<tr>
<td>Harmony 111</td>
<td>Harmony 112</td>
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<tr>
<td>Principles of Education 152</td>
<td>Principles of Teaching 154</td>
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<tr>
<td>Piano 104</td>
<td>English 122 or Speech</td>
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<td>Voice 104</td>
<td>Piano 105</td>
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<tr>
<td>Electives</td>
<td>Voice 105</td>
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<td>Psychology 136</td>
</tr>
</tbody>
</table>
### Spring Quarter
- Physical Education: 1
- Intermediate Sight Singing and Ear Training 106: 2
- Harmony 113: 3
- Botany 110: 3
- Piano 106: 1
- Voice 106: 1
- Electives: 5

### Third Year

#### Fall Quarter
- Advanced Sight Singing and Ear Training 207: 3
- Harmony 214: 3
- Choral Music 201: 3
- Conducting 241: 2
- Reed Instruments 201: 1
- Electives: 3

#### Winter Quarter
- Harmony 215: 3
- Romantic Period 202: 3
- Primary Methods and Observation 202: 4
- Conducting 242: 2
- Reed Instruments 202: 1
- Brass Instruments 202: 1
- Electives: 2

### Spring Quarter
- Harmonic Analysis 216: 3
- Modern Music 203: 3
- Intermediate Methods and Observation 203: 4
- Supervised Teaching (Primary) 213: 3
- Brass Instruments 203: 1
- Electives: 2

### Fourth Year

#### Fall Quarter
- Musical Form 211: 3
- Jr. & Sr. H. S. Methods and Observation 204: 4
- Supervised Teaching (Intermediate) 214: 3
- Orchestration 251: 3
- Voice Class 255: 2
- String Instruments 251: 1

#### Winter Quarter
- School Music Supervision 255: 3
- Supervised Teaching (Jr. & Sr. H. S.) 215: 3
- Orchestration 252: 3
- String Instruments 252: 1
- Electives: 6

### Spring Quarter
- School Administration 251: 3
- Physics of Sound 253: 2
- Band and Orchestra 258: 2
- Piano Class 256: 2
- Glee Clubs and Chorus 259: 2
- Electives: 4
Health and Physical Education

Students completing the following curriculum will be granted the degree of Bachelor of Science in Education with a major in Physical Education. The purpose of this curriculum is the preparation of teachers and supervisors of Physical Education, athletic coaches, and recreation directors. Students majoring or minoring in Physical Education must have their schedules approved by their advisor in the Department of Health and Physical Education.

Curriculum for Students Majoring in Health and Physical Education

Note: For description of Physical Education courses see Department of Health and Physical Education.

First Year

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<tr>
<td>Physical Education 101a</td>
<td>Physical Education 102a</td>
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<tr>
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<td>English 101</td>
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<td>Bible 101</td>
<td>Personal Hygiene 115</td>
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<td>Foreign Language or Elective</td>
<td>Bible 102</td>
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<tr>
<td>Physical Education 104a</td>
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<tr>
<td>Comparative Anatomy 106</td>
<td>Mam. Anatomy and</td>
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<tr>
<td>*Educational Psychology 112</td>
<td>Physiology 113</td>
</tr>
<tr>
<td>Health Education 151</td>
<td>*Educational Psychology 204</td>
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<td>English 121</td>
<td>Health Education 152</td>
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<td>Elective</td>
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Spring Quarter

| Physical Education 106a   | 1 |
| Kinesiology 155           | 2 |
| Psychology 152            | 3 |
| Theory and Practice of    |   |
| Plays and Games 156       |   |
| English 122a              | 3 |
| Elective                  | 5-6 |
**Third Year**

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<tr>
<th>FALL QUARTER</th>
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<tbody>
<tr>
<td>Principles and Methods of Physical Education 201</td>
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<td>Sociology 201</td>
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<td>*Principles of Education 152</td>
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<tr>
<td>Football Coaching 221</td>
<td>Basketball Coaching 222</td>
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<tr>
<td>Coaching (Women) 221</td>
<td>Coaching 222 (Women)</td>
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<td>Electives</td>
<td>*Observation and Participation</td>
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<tbody>
<tr>
<td>Principles and Methods of Physical Education</td>
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<tr>
<td>Sociology 203</td>
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<tr>
<td>*History of Education 215</td>
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<tr>
<td>Baseball and Track</td>
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<tr>
<td>Coaching 223</td>
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<td>Coaching 223 (Women)</td>
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<td>Electives</td>
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<tr>
<td>Normal Diagnosis 252</td>
<td>Normal Diagnosis 253</td>
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<tr>
<td>*School Administration</td>
<td>Organ. and Adm. of</td>
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<tr>
<td>Advanced Coaching Practice</td>
<td>Physical Education 254</td>
</tr>
<tr>
<td>History of Physical Education</td>
<td>*Student Teaching 263</td>
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<td>Education 260</td>
<td>Advanced Coaching Practice</td>
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<td>*Student Teaching 263</td>
<td>Electives</td>
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<tr>
<td>Individual Gymnastics 255</td>
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<tr>
<td>First Aid and</td>
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<tr>
<td>Ath. Training 258</td>
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<tr>
<td>Psychology of Coaching 262</td>
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<tr>
<td>Advanced Coaching Practice</td>
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<td>Electives</td>
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**Fourth Year**

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<tr>
<td>Advanced Coaching Practice</td>
<td>Physical Education 254</td>
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<tr>
<td>History of Physical Education</td>
<td>*Student Teaching 263</td>
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<td>*Student Teaching 263</td>
<td>Electives</td>
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**Note:** Public Speaking 101, 102, and 222 may be substituted for English 121, 122, and 122a.

Thirty-six hours of credit in educational subjects are required of all teachers in secondary education.

*Subjects required by the State for special certificates in Health and Physical Education.

Students offering less than one unit of Chemistry for entrance must schedule Chemistry 101a, 102a, and 103a, not later than the Sophomore year.

It is recommended that students majoring in Health and Physical Education complete a minor in some field such as social science, or physical or biological science.
DESCRIPTION OF PROFESSIONAL COURSES IN EDUCATION

EDUCATIONAL PSYCHOLOGY

112. EDUCATIONAL PSYCHOLOGY, INTRODUCTORY

(Winter) 3 Hrs.
Introductory courses for students of education. A study of the basic facts and principles of psychology which have a bearing upon educational problems. T. W. F., 2:30.

135. EDUCATIONAL PSYCHOLOGY, ADVANCED (Fall) 3 Hrs.
A course designed for students who wish to continue the study of educational psychology; heredity and environment; physical basis of behavior; intelligence, instincts, emotions, attitudes; learning process; association, memory; transfer of training; mental work and fatigue. Prerequisite: Education 112. M. W. F., 10:00.

136. ADOLESCENT PSYCHOLOGY (Winter) 3 Hrs.
An intensive study of the problem of growth, reaction, systematic psychology and personality of adolescence; applied problems in junior and senior high schools. M. W. F., 10:00.

137. PSYCHOLOGY OF SECONDARY SCHOOL SUBJECTS

(Spring) 3 Hrs.
A course similar to the psychology of elementary school subjects; mental processes involved in learning the secondary school subjects. Prerequisite: Psychology 135. M. W. F., 10:00.

152. CHILD PSYCHOLOGY (Spring) 3 Hrs.
Source and characteristics of original nature; social and non-social instincts; attention, sense perception, imagination, thinking, habit, play, moral development, physical development; exceptional children. T. Th. F., 11:00.

PRINCIPLES AND HISTORY OF EDUCATION

152. PRINCIPLES OF ELEMENTARY EDUCATION (Fall) 3 Hrs.
This course will analyze modern educational procedures to discover the principles involved. Consideration will be given to the theories and their realization in current educational practice of such leaders as Comenius, Pestalozzi, Froebel, Dewey, Kilpatrick, and others. Prerequisite: Education 112. M. W. F., 2:30.
154. **Principles of Teaching in the Elementary Grades (Winter)**  3 Hrs.

Consideration will be given to the various types of lessons and the most approved methods of teaching in the elementary schools; an evaluation of the present-day curriculum in furthering the child's growth; power and appreciation; needed changes in the organization and administration of the elementary school. Prerequisites: Education 112; Principles of Education 152; M. W. F., 1:30.

153a. **Principles of Education—Kindergarten-Primary Theory (Winter)**  3 Hrs.

Survey of the psychology of the kindergarten-primary child; new types of school organization based on children's needs as interpreted by psychology; principles of education applied; modern methods based on children's experiences including; the game, the story, the project, constructive and artistic training; concluding with the organizing of a philosophy for the teaching of kindergarten-primary children. Prerequisite: Principles of Education 152. M. W. F., 2:30.

207. **Principles of Secondary Education (Fall)**  3 Hrs.

The object of this course is to give a fundamental conception of the secondary school; the function of the school in meeting the needs of adolescent years; a study of the educative process and the contributions of modern educational philosophers to educational theory and practice. Prerequisite: Psychology 101. M. W. F., 9:00.

208. **Principles of Teaching (Secondary) (Winter)**  3 Hrs.

This course deals with the different types of teaching in secondary schools; the selection and arrangement of subject matter; economy in classroom management; the conduct of the recitation under various plans; the disciplinary problem; the use of text books; and the most approved methods of teaching in high school. Prerequisite: Psychology 101. M. W. F., 9:00.

138. **History of Education (Winter)**  3 Hrs.

A survey of ancient, mediaeval, and modern education with the object of acquiring a better understanding of modern educational problems. M. W. F., 3:30.

139. **History of Education in the United States (Spring)**  2 Hrs.

This course traces the development of public education in the United States. T. Th., 10:00.

211. **Educational Sociology (Secondary) (Spring)**  3 Hrs.

A study of the application of the scientific spirit, methods and principles of sociology to education. The social basis of the school in its relation to the home, community, church and state. The social value of the educational surveys and vocational courses from the utilitarian viewpoint. Prerequisites: Sociology 201 and 202. M. W. F., 11:00.
SCHOOL ADMINISTRATION AND ORGANIZATION

107. ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOLS (Winter) 3 Hrs.

A study and discussion of the organization and control of elementary schools, relation of the elementary schools to higher schools, economy of time and effort, the larger problems of the elementary schools as a preparation of the student for service in the elementary field. Attention will be given to Ohio school laws relating to elementary schools and elementary teachers. M. W. F., 10:00.

251. SCHOOL ADMINISTRATION (Spring) 3 Hrs.

This course attempts to acquaint the student with a knowledge of the state, city and county as administrative units. The Ohio School Law is given consideration. Prerequisite: Education 207 or 208. M. W. F., 1:30.

252. HIGH SCHOOL ADMINISTRATION (Fall) 3 Hrs.

Problems of major importance; the high school principal and his duties; the staff; the curriculum; program building; extra-curricular activities; problems of management; systems of grading; and records and reports are considered. Prerequisite: Education 207 or 208. M. W. F., 1:30.

253. SUPERVISION OF INSTRUCTION (Spring) 3 Hrs.

The aims of this course are to acquaint the teacher and supervisor with the function of supervision; its problems; the supervisor and improvement of teaching; evaluating the work of the supervisor; the training and personality of the supervisor. Prerequisites: Education 208, 252 or 107, 104, or 105. M. W. F., 9:00.

229. EDUCATIONAL MEASUREMENTS (Spring) 3 Hrs.

Standardized tests as a means of classifying and promoting pupils; use of standard tests in improving instruction; elementary principles of statistical methods in education. M. W. F., 3:30.

PROFESSIONALIZED SUBJECT MATTER COURSES

117. PRIMARY READING AND CHILDREN'S LITERATURE (Fall) 5 Hrs.

A study of children's readiness for reading; materials and methods best adapted to teach children how to read and to increase their interest in reading; history of the development of the subject; study of one system of teaching reading; reference readings, observations, and class discussions; supervised practice in teaching reading to class.

Brief history of the English language; an inductive study of a need for the subject; principles of selecting material for teaching language; preparation of teaching materials; methods of procedure most helpful in securing growth in oral and written expression. Daily, 9:00.
117a. **Primary Reading and Children's Literature**

*(Winter)*  5 Hrs.

Principles of selecting materials for teaching reading and literature; preparation of the teaching materials; experimental studies in reading and literature; creative work; lesson plans, diagnostic tests and remedial work; group and individual work; comparison of courses of study; evaluation of textbooks; two systems of teaching reading. Daily, 9:00.

118. **Juvenile Literature and Teaching of Reading**

*(Fall)*  5 Hrs.

This professionalized course deals with materials and methods of teaching reading, language, and spelling in the intermediate grades. A study of recent investigations and experiments in the teaching of reading, together with their bearing on recent practice will be made. The following topics will also be included: The history and psychology of reading, comparison of courses of study, and correlated creative work. Daily, 9:00.

118a. **Juvenile Literature and Teaching of Reading**

*(Winter)*  5 Hrs.

This is a continuation of course 118. Diagnostic tests and remedial work in reading, language and spelling. A brief survey of primary methods; comparison of graded book lists, of courses of study, of various silent reading text books. Continuation of the study of literature for the intermediate grades and junior high school. Teaching units, observation, creative work and picture study will be considered. Daily, 9:00.

105. **Interpretative Reading and Speech Improvement**

*(Fall)*  2 Hrs.

Use of carefully chosen prose and poetry selections suitable to be read to primary pupils. Suggestions for interpretation are given. A study of the correct moulding of English sounds and suggestions for the correction of such speech errors as stammering, stuttering, lisping, nasal twang, dialect, localisms, etc. This course is designed for primary teachers. T. Th., 7:30—Mr. Deming.

106. **Interpretative Reading and Speech Improvement**

*(Fall)*  2 Hrs.

A course similar to Speech 105, but designed for teachers of the intermediate grades. T. Th., 4:30.—Mr. Deming.

118. **Mathematics for Elementary Teachers**

*(Winter)*  3 Hrs.

A professionalized course designed to give the prospective teacher a thorough mastery of the subject matter of arithmetic. The methods used in the teaching of the fundamental operations, fractions, and decimals, to harmonize with psychological laws and principles. Practical applications of algebra and geometry. Modern business methods and mental arithmetic will be considered. M. W. F., 10:00.
119. **Arithmetic in the Kindergarten-Primary**

   **Grades (Spring)**  3 Hrs.

   Modern methods of teaching arithmetic to kindergarten-primary children; psychology of the teaching of arithmetic; diagnosing and remedying difficulties; literature of the subject; experimental studies in the teaching of the subject; comparison of courses of study; evaluating textbooks. Prerequisite: Mathematics 118. M. W. F., 10:00.

120a. **Arithmetic in the Intermediate Grades (Spring)** 3 Hrs.

   A continuation of course 120. The following topics will be included: A brief history of the subject, the psychology of the subject, tests and measurements, remedial work, a presentation of the practical implications of important mathematical investigations and a comparison of the courses of study. Recent text books in arithmetic will be evaluated. Prerequisite: Mathematics 118. M. W. F., 10:00.

155. **Geography for Elementary Teachers (Fall)** 4 Hrs.

   Weather observations; geographical controls; continental study of N. A., S. A., and Europe; relationship between man and his environment; industry as the key to a region, a brief history of the growth of geography. M. T. W. Th., 11:00.

156. **Teaching Geography in Primary Grades (Winter)** 4 Hrs.

   Modern methods of teaching geography in the primary grades; principles of selecting materials for teaching geography in the primary grades; preparation of this material for teaching purposes; experimental studies made in the teaching of geography; writing lesson plans; activities suitable for primary children to gain an understanding of geographical principles; comparison of courses of study; evaluation of text-books. Prerequisite: Geography 155. M. T. W. Th., 11:00.


   In this course the following topics will be included: Modern methods, principles of geography, geographic relations, experimental studies and selection of materials for teaching, such as pictures, raw materials and maps. The principles of teaching geography will be applied to the study of definite regions. Tests and measurements, courses of study and text book evaluation will be considered. Prerequisite: Geography 155. M. T. W. Th., 11:00.

176. **Teaching of Elementary History (Spring)** 3 Hrs.

   Principles of selecting material for teaching history in each of the six elementary grades; preparation of this teaching material; comparison of courses of study; study of modern methods of teaching history; a study of the application of these methods with groups of children, through observation; the use and value of aids of all kinds; library references; tests and remedial work; evaluation of textbooks. M. W. F., 3:30. T. Th. F., 11:00.
123. Educational Biology (Fall) 5 Hrs.
This course includes such study of plants and animals as is necessary for an understanding of the principles which are functional for teachers. The aims of the course are: (1) to give a general outline of the scope of biology and its relation to the other sciences and to education; (2) to develop scientific attitudes which may aid the teacher in evaluating educational theories and problems; (3) to provide a biological basis for a better appreciation and understanding of other teacher-training subjects. M. W. F., 7:30.

117. Health Education (Spring) 3 Hrs.
This course deals with the health program of the public schools, and the teaching of habits, attitudes and knowledge conducive to good health. M. W. F., 1:30—Miss Bruckheimer.

156. Theory and Practice of Plays and Games (Spring) 3 Hrs.
The need, purpose and function of play in education are studied. This includes a consideration of the social, educational and biological aspects of play and recreation. Activities adaptable to various age levels of the elementary and secondary schools are learned. Two hours of theory and two hours of laboratory per week. M. T. W. Th., 2:30—Miss Bruckheimer.

140. Public School Drawing and Industrial Arts (Fall) 1 Hr.
This course includes a brief survey of the history of the fine arts, a history of industrial arts, the relation of fine arts to industrial arts, a recognition of and appreciation for better pictures. Home industries will be used as a means of personal contact, and to develop an understanding and an appreciation of the subject. T. Th., 1:30.

141. Public School Drawing and Industrial Arts (Winter) 1 Hr.
This course deals with the psychology of the teaching of art, the principles of education applied to the teaching of art; the relation of industrial arts to nature study, reading, literature, arithmetic, geography, and history. T. Th., 1:30.

142. Public School Drawing and Industrial Arts (Spring) 1 Hr.
Selection of the materials to be used in the teaching of drawing and industrial arts, organizing their material for teaching purposes, study of textbooks in art, study of courses of study and concluding with the making of a course of study for the elementary grades. T. Th., 1:30.

124. Public School Music (Fall) 2 Hrs.
This course begins with the presentation of notation and develops independent sight-reading ability through the use of Public School Music materials presented according to the class methods employed in Public Schools. M. W. F., 11:00, and also M., 2:30.—Miss Moore.
125. **Public School Music (Winter)** 2 Hrs.
A study of the use of the child's voice in singing, including the treatment of defective singers; methods of selecting and presenting rote songs and sight-reading material for grades 1, 2, 3, and 4. Some acquaintance with methods of rhythmic development and materials for the listening lesson. Observation is required. Prerequisite: Public School Music 124. M. W. F., 11:00, and also M., 2:30.
—Miss Moore.

126. **Public School Music (Spring)** 1 Hr.
A study of the child's singing voice in grades 5 and 6; selection and presentation of rote, listening and sight-reading material for these grades. Observation is required. Prerequisite: Public School Music 126. M. W., 11:00.
—Miss Moore.

**SPECIAL METHODS IN HIGH SCHOOL SUBJECTS**
These courses are professionalized subject-matter courses and deal with subject-matter that is necessary for the successful teaching of high school subjects. They also cover the selection of materials, methods of instruction, and the organization of the work in each subject under consideration. Prerequisite: Education 207 or 208. Credit 3 to 5 hours.

250. **Teaching English**
250. **Teaching History and Social Sciences**
250. **Teaching Mathematics**
250. **Teaching Latin**
250. **Teaching Modern Languages**
250. **Teaching Biological Sciences**
250. **Teaching Physics and Chemistry**

**OBSERVATION AND PARTICIPATION**

122. **Observation and Participation (Winter)** 5 Hrs.
A systematic study of actual classroom practice and management in the primary grades of the training school. Participation in the work of the school; readings; reports on observations and conferences. Prerequisite: Education 162. Conferences, T. Th.

123. **Observation and Participation (Spring)** 5 Hrs.
A course for those desiring to teach in the intermediate grades, similar to Course No. 122. Prerequisite: Education 162. Conferences, T. Th.

215. **Observation and Participation (Fall, Winter)** 5 Hrs.
Systematic observations of actual classroom practice, and school management in the junior and senior high school; readings, reports on observations and conferences. Prerequisite or concurrent course: Education 207 or 208. Conferences T. Th.
STUDENT TEACHING

Student teaching will be required of all candidates for the degree, Bachelor of Science in Education or Bachelor of Arts, who expect to teach, and of all candidates for the diploma in elementary education. The Training School is the center around which all the courses are organized.

PREREQUISITES

1. Students preparing for teaching in the elementary field, may do student teaching in the sophomore year, or in later years of their college course. High school student teaching may be done in the senior year.

2. Beginning September, 1929, a student will be required to have a general scholarship rating of one and one-fourth (1 ¼) quality points per hour. This means that a student must have a rank of C plus before student teaching can be done in any school.

3. A student who wishes to do student teaching in the elementary field, must be able to make a score of 80 on the Ayers Scale for Handwriting.

4. A senior who wishes to do student teaching in the high school, must have completed 24 hours of work including special methods in his major subject, or not less than 18 hours in a minor subject. It is highly recommended that student teaching be done in a major subject in which the student's scholarship ranks highest. A rating of less than C plus or B should be looked upon as disqualifying one for student teaching.

5. The student must have the recommendation of both his major and minor professors and the Director of Teacher Training. Continuance in student teaching depends upon the attitude, preparation, and progress of the student teacher.

170. STUDENT TEACHING—GRADES 1, 2, 3

(Fall, Winter, or Spring) 6 Hrs.

A course for students specializing in the primary grades. Students are required to write a syllabus of the work to be covered; prepare lesson plans and teach them in the Training School; hold conferences with Critic Teacher; spend two hours per week on the campus in studying the technique of teaching. Prerequisite: Education 122.
171. **Student Teaching—Grades 4, 5, 6**  
*(Fall, Winter, or Spring)*  
6 Hrs.  
This is a course for students specializing in the teaching of the intermediate grades. A syllabus and bibliographies for both children's and teachers' use will be worked out by the practice teacher along with the teaching units used in the class-room. The technique of teaching will be discussed in general conferences two hours per week on the campus. Prerequisite: Education 123.

270. **Student Teaching—Junior and Senior High School**  
*(Fall, Winter, or Spring)*  
6 Hrs.  
Students will prepare a syllabus of work to be covered; write lesson plans; prepare a bibliography of teaching helps; study the technique of teaching two hours per week on the campus; and attend conferences. Prerequisite: Education 215.

263. **Student Teaching—Physical Education Students**  
*(Fall, Winter, or Spring)*  
6 Hrs.  
Students taking the four year course for the training of physical education supervisors and teachers will be required to prepare a syllabus of work to be covered, write lesson plans, hold conferences with the professor in charge in the department, and teach in the University, Junior and Senior High School, and Elementary School.

215. **Student Teaching—Music**  
*(Fall, Winter, Spring)*  
6 Hrs.  
For description of course see Department of Music.
MUSIC

(On the A. D. Juilliard Foundation)

PROFESSOR WILLIAM P. LAMALE
PROFESSOR MARK EVANS
MR. WALTER WILHEMGANZ
MISS ALICE O. MOORE
MRS. ELLA IRICK

ORGANIZATION

The Department of Music, on the A. D. Juilliard Foundation, is organized within the College of Liberal Arts, and has the same rules of academic procedure. Credits earned in music are acceptable toward the Bachelor’s degree as specified elsewhere in this catalogue.

AIMS

Instruction is provided for those who desire to become professional musicians, either as performers or as teachers, and an opportunity is afforded to those who wish to devote themselves to the literature of music. Because training in music should be based upon a broad and thorough general education, the curricula have been so constructed as to secure a symmetrical balance between musical and academic subjects.

EQUIPMENT

Presser Hall, the home of the Department of Music, built in memory of Theodore Presser, an early faculty member, cost nearly $200,000. It contains the Willis Auditorium, with a seating capacity of 600, a large stage, 7 fine studios, 18 practice rooms, 3 classrooms, and 14 upright pianos. In Lehr Auditorium is a large organ and a grand piano.
OPPORTUNITIES IN MUSIC

1. Music Library. Orchestral scores, chamber music and piano scores, complete opera scores, collection of public school methods material, as well as recognized books of history, biography, and criticism are being added regularly to the rapidly expanding music library.

2. Recitals. Student recitals are held every two weeks during the year. In this manner students become acquainted with a larger number of musical compositions than they can themselves study, and by taking part as a performer may thus acquire a greater self-control and ease through such a public appearance. Faculty recitals are held each quarter. An Artist's Course is maintained by the University, and additional soloists and ensembles are introduced. Attendance at all recitals is required of students in music.

3. Musical Organizations. The Men's Glee Club and the Women's Glee Club are choral groups of the highest merit, and have achieved foremost prominence in contest and concert fields. Annually the Choral Society gives the oratorios Messiah and Elijah, as well as performing choral compositions of genuine value. A Chapel Choir of selected singers from the glee clubs sings regularly in chapel. The University Orchestra has the status of a "little symphony" in numbers as well as quality of performance. The University Band is an organization in which each student takes an individual pride, for it ranks high with similar organizations in collegiate circles. The Glee Clubs, Orchestra, and Band make many concert trips over the state, and appear in formal concerts each quarter at the University. Membership in these organizations is open to all students.

SCHOLARSHIPs

Four scholarships have been made available, two of which have been given by Mrs. Avanel C. Stambaugh. In accordance with a request the name of the donor of the other two scholarships is withheld. The President of the University and the Head of the Department of Music determine the awarding of these scholarships. Students desiring to follow a professional career in music are given a preference in these awards.
ADMISSION

The requirements for admission to degree courses are the same as those for the College of Liberal Arts. It is expected that applicants will have had enough preparation to serve as an adequate basis for future musical growth. All claims for advance credit must be presented to the Head of the Department of Music and the Dean of the College.

SPECIAL STUDENTS

A student who desires to register for work in applied music or theoretical subjects without having graduation in view, may register as a special student. There are no requirements for registration as a Special Student other than evidence of talent and the ability to pursue a selected course with success.

JUNIOR DEPARTMENT

The Applied Music department is open to children of public school age without any restriction other than an interest and a willingness to study. In all teaching the ideal of musical feeling is sought in companionship with those of beautiful tone, accurate intonation, and relaxation upon which it is based. Group playing is stressed as much as possible and students of orchestral instruments are encouraged to enter the local high school orchestra.

Classes are formed in Piano, Voice, and Orchestral Instruments provided that a minimum of five pupils enroll.

The usual private lesson periods of all instructors are available at special rates for those who prefer individual instruction.

REQUIREMENTS FOR GRADUATION

BACHELOR OF MUSIC

Through the College of Liberal Arts the degree of Bachelor of Music is granted to students who have satisfactorily completed the four-year curriculum with a major in Voice, Piano, Organ, or an Orchestral Instrument. At least one creditable recital is required as well as a thorough teaching knowledge of one other branch of practical music.
BACHELOR OF ARTS WITH MAJOR IN MUSIC

A major of 60 hours of music or a minor of 30 hours of music is accepted towards the Bachelor of Arts degree. The major consists of the following courses of Theoretical and Applied Music: Sight Singing and Ear Training, History of Music, Harmony, Musical Form, Counterpoint, Applied Music and Ensemble Participation. Theoretical Music should constitute about 40 hours of this major.

The courses listed above are not inflexible but may be changed to meet the requirements of the individual by consulting the Dean and the Head of the Department. Students selecting a major or minor in music should consult both the Dean and the Head of the Department before entering upon any work in this field.

PUBLIC SCHOOL MUSIC COURSE

This course is approved by the State Department of Education for the training of teachers and supervisors of Public School Music. The degree of Bachelor of Science in Education is granted to students completing the Public School Music curriculum, and such persons are granted the State Four-Year Provisional Certificate. An opportunity is given for specialization in the fourth year whereby the student may pursue definite practical work in his chosen field of vocal or instrumental supervision. See curriculum under Division of Teacher Training.

GRADUATE IN MUSIC

Students who are unable to offer the required number of entrance credits permitting work towards a degree may follow a course of professional studies in music and earn a Diploma as Graduate in Music. With the omission of the academic studies, the course is the same as that given for the Bachelor of Music degree, but may be completed in about three years. A public graduation recital must be given.

CERTIFICATE IN MUSIC

Students who do not desire to secure a Bachelor of Music degree nor a diploma as Graduate in Music may specialize in Organ, Piano, Voice, or an Orchestral Instrument. Two years of the required courses as outlined for the specific field and two years of theoretical work are required for this Certificate. A private recital must be prepared and presented before the faculty members.
### Degree: Bachelor of Music

#### Curricula

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<tr>
<td>Orchestration 251-252</td>
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<td>Electives</td>
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</table>
PUBLIC SCHOOL MUSIC COURSE

DEGREE: BACHELOR OF SCIENCE IN EDUCATION

(For Curriculum See Division of Teacher Training)

REGULATIONS

1. All tuition must be paid in advance.

2. Lessons missed with reasonable excuse may be made up when a student has given the instructor 24 hours notice of the intended absence.

3. Students registering within a quarter are charged for one extra lesson.

4. All students taking a major in music must enroll for either Choral Society or Orchestra.

TUITION AND FEES

(Tuition for a quarter of twelve weeks unless otherwise specified)

Voice, Piano, Organ, Violin, Reed or Brass Instruments,
Two lessons a week ........................................ $36.00
One lesson a week ......................................... 21.00

For either of the six-weeks summer terms,
Two lessons a week ........................................ 21.00
One lesson a week ......................................... 10.50

Single lesson ................................................ 2.00

Public School Music Course ................................ 75.00
Bachelor of Music Course .................................. 75.00

JUNIOR DEPARTMENT

High School Students, two lessons a week .............. $30.00
One lesson a week ........................................ 16.00
Single lesson ............................................. 1.50

Grade School Students, two lessons a week ............ 22.00
One lesson a week ........................................ 12.00
Single lesson ............................................. 1.25
CLASS LESSONS

All class instruction in Theoretical Music,
Three hours a week ........................................... $13.00
Two hours a week ........................................... 9.00
All class instruction in Applied Music,
Two lessons a week ......................................... 12.00
One lesson a week ........................................... 6.00

RENTALS

Pipe Organ, one hour a day ................................ $12.00
Piano, one hour a day ...................................... 3.50
Room for instrumental practice, one hour a day .... 2.00
Library Fee .................................................... .50
Orchestra Fee per quarter .................................... 1.00

GRADUATION FEES

Bachelor of Music ........................................... $10.00
Bachelor of Arts, with Major in Music ................ 10.00
Bachelor of Science in Education (Music) ............ 10.00
Diploma in Music ........................................... 7.00
Certificate in Music ........................................ 4.00

DESCRIPTION OF COURSES

THEORETICAL MUSIC

PROFESSORS STRICKLING, EVANS AND LAMALE, MR. WILHNGANZ AND MISS MOORE

101. ELEMENTARY SIGHT SINGING AND EAR TRAINING

(Fall) 3 Hrs.
Music terminology and elements of notation. Singing in all major and minor modes, diatonic melodies involving chromatic alterations and modulations to related keys, and in one and two parts. Drill in recognizing and writing rhythms, intervals, and melodies. Grade methods materials are used. M. W. F., 9:00.

102. ELEMENTARY SIGHT SINGING AND EAR TRAINING

(Winter) 3 Hrs.
Continuation of 101. M. W. F., 9:00.

103. ELEMENTARY SIGHT SINGING AND EAR TRAINING

(Spring) 3 Hrs.
Continuation of 102. M. W. F., 9:00.
104. **Intermediate Sight Singing and Ear Training**  
*(Fall) 2 Hrs.*  
Sight singing of music involving more than one part. Reading of choruses used in junior and senior high schools. Melodic dictation of same material. T. Th., 1:30

105. **Intermediate Sight Singing and Ear Training**  
*(Winter) 2 Hrs.*  
Continuation of 104. T. Th., 1:30.

106. **Intermediate Sight Singing and Ear Training**  
*(Spring) 2 Hrs.*  
Continuation of 105. T. Th., 1:30.

†111. **Elementary Harmony (Fall)**  
3 Hrs.  
A study of the building and naming of scales, intervals and chords. Harmonization of given melodies with the primary chords. Prerequisite: The ability to play common hymns at sight on the piano; Sight Singing 103. M. W. F., 7:30.

112. **Elementary Harmony (Winter)**  
3 Hrs.  

113. **Elementary Harmony (Spring)**  
3 Hrs.  

207. **Advanced Sight Singing and Ear Training**  
*(Fall) 3 Hrs.*  

211. **Musical Form (Fall)**  
3 Hrs.  
The musical sentence, its subdivisions and extensions; double periods, two and three part song forms. Analysis of Mendelssohn's "Songs without Words." Prerequisite: Harmony 216. M. W. F., 10:00.

*212. **Musical Form (Winter)**  
3 Hrs.  
The theme and variations, the suite, and the sonata. Analysis of selected Beethoven sonatas. M. W. F., 10:00.

*213. **Musical Form (Spring)**  
3 Hrs.  
Analysis of representative chamber music and symphonic compositions. The formal design of contemporary music. M. W. F., 10:00.

214. **Advanced Harmony (Fall)**  
3 Hrs.  
Transition and modulation. M. W. F., 1:30.

215. **Advanced Harmony (Winter)**  
3 Hrs.  

†Keyboard harmony will be emphasized each quarter during the regular work in Harmony.

* Not given in 1930-31.
216. **HARMONIC ANALYSIS (Spring)** 3 Hrs.
Analysis of the harmonic structure of compositions of various epochs. M. W. F., 1:30.

*201. COUNTERPOINT (Fall) 3 Hrs.
Strict counterpoint of all species in two and three voices. Prerequisite: Harmony 113. M. W. F., 3:30.

*202. COUNTERPOINT (Winter) 3 Hrs.
Free counterpoint in four and five voices. Imitation, double counterpoint, and canon. M. W. F., 3:30.

*203. COMPOSITION (Spring) 3 Hrs.
Writing for piano solos, and in the simpler forms for vocal and instrumental solos with piano accompaniment. M. W. F., 3:30.

251. **SCHOOL ORCHESTRATION (Fall)** 3 Hrs.
A practical course in arranging songs and piano music for small school orchestras, including a study of transposition, substitution of instruments, and the relationship of instruments as to range, tone quality, and groups. Prerequisites: Harmony 215; Advanced Sight Singing 207. M. W. F., 2:30.

252. **ADVANCED ORCHESTRATION (Winter)** 3 Hrs.
A continuation of 251, with scoring for full band and orchestra. The finished scores are played by the university organizations and each student will direct his own arrangement. Original compositions are scored. The orchestral scores of master compositions are carefully studied. Reference texts: Forsyth, Prout, Rimsy-Korsakoff. Prerequisite: School Orchestration 251. M. W. F., 2:30.

241. **CONDUCTING (Fall)** 2 Hrs.
Principles of conducting, use of the baton, grouping of voices and seating of instrumental combinations, selection of materials. Prerequisite: Harmony 113. T. Th., 10:00.

242. **ADVANCED CONDUCTING (Winter)** 2 Hrs.
Conducting full band and orchestra scores. One public appearance directing a university choral or instrumental organization. Prerequisite: Conducting 241. T. Th., 10:00.

201. **CHORAL MUSIC (Fall)** 3 Hrs.
Vocal polyphony from its beginning in descant to its culmination in the motet and madrigal, with emphasis resting on the music of the XVth and XVIth centuries. Motets, madrigals and masses are examined and sung. M. W. F., 10:00.

202. **THE ROMANTIC PERIOD (Winter)** 3 Hrs.
Nationalism in music, the classic reaction in France and Germany, with a careful analysis of Romanticism. Study of the compositions of Schubert, Schumann, Mendelssohn, Chopin, Berlioz, and Liszt. M. W. F., 10:00.

* Not given in 1930-31.
203. **Modern Music** (*Spring*)  
A consideration of the modern trends of music, both choral and instrumental. The compositions of late XIXth and present centuries composers are observed. M. W. F., 10:00.

101. **Survey of Music** (*Fall*)  
An introduction and comprehensive view of music in its development and tendencies from a historical basis. Public school music in United States and the training of music teachers is discussed briefly. M. W. F., 1:30.

202. **Primary Music Methods and Observation**  
(*Winter*)  
The use of the child voice in singing, including treatment of defective singers; selection and presentation of rote material; various methods of presenting staff notation and developing sight reading ability. Materials and methods for the listening lesson. Four observations each week are required. Prerequisites: Advanced Sight Singing 207, Harmony 214. M. W. F., 11:00.

203. **Intermediate Music Methods and Observation**  
(*Spring*)  
Materials and methods. Further development of music reading, introducing the tonal and rhythmical problems common to grades 4, 5, and 6. Evaluation of important texts and recent approaches. Four observations each week are required. Prerequisite: Primary Methods 202. M. W. F., 11:00.

204. **Junior and Senior High School Methods and Observation** (*Fall*)  
The adolescent voice and its care; testing and classification of voices; selection of materials; public performances; school assembly; listening lesson; class instrumental teaching. Organization and direction of chorus, glee club, orchestra and band. Four observations each week are required. Prerequisite: Intermediate Music Methods 203. M. W. F., 11:00.

255. **School Music Supervision** (*Winter*)  
Elementary school curriculum; coordination of the work of a special subject with the general field of education; outlining of work in music; grade meetings; visiting teachers; evaluating and checking results. The meaning, purpose, and special problems of supervision. Prerequisite: Junior and Senior High School Methods 204. M. W. F., 3:30.

213. **Supervised Teaching in the Primary Grades**  
(*Spring*)  
The making of syllabi and daily and weekly lesson plans which are submitted in advance of actual teaching. A minimum of one period a day of actual teaching is required in each of the three primary grades, also one group and one private conference each week with the training teacher. Prerequisite: Primary Music Methods 202. Hours to be arranged.
214. Supervised Teaching in the Intermediate
    Grades (Fall) 3 Hrs.
    Same objectives as stated in 213. Teaching is done in
    grades 4, 5, and 6. Prerequisite: Intermediate Methods 203.
    Hours to be arranged.

215. Supervised Teaching, Junior and Senior High
    School (Winter) 3 Hrs.
    Same objectives as stated in 213. Teaching is done in
    junior and senior high school field. Prerequisite: Junior
    and Senior High School Methods 204. Hours to be arranged.

258. Band and Orchestra (Spring) 2 Hrs.
    A special study of the organization, training, materi-
    als, and objectives of such ensembles. Practical work in
    arranging music and conducting. Prerequisites: School

259. Glee Clubs and Chorus (Spring) 2 Hrs.
    A special study of the organization, selection of voices,
    materials, and training of choral groups. Conducting will
    be emphasized. Prerequisites: Conducting 241 and Junior
    and Senior High School Methods 204. T. Th., 2:30.

255. Voice Class (Fall) 2 Hrs.
    A practical course in handling the voices of students
    of secondary school age. Groups are organized. Selection
    of voices and materials. T. Th., 11:00.

256. Piano Class (Spring) 2 Hrs.
    A practical course in observation and practice of class
    instruction in piano, with a survey of methods and materi-
    als used in public schools. T. Th., 10:00.

251. String Instruments (Fall) 1 Hr.
    Class study of the violin. Fundamental problems of
    bowing and fingering common to all string instruments.
    T. Th., 2:30.

252. String Instruments (Winter) 1 Hr.
    Continuation of 251. T. Th., 2:30.

201. Reed Instruments (Fall) 1 Hr.
    A study of the Boehm system clarinet. Fingering and
    tone production of other reed instruments explained.
    T. Th., 1:30.

202. Reed Instruments (Winter) 1 Hr.
    Continuation of 201, with practice on one other reed
    instrument. T. Th., 1:30.

202. Brass Instruments (Winter) 1 Hr.
    A study of cornet. Relationship of fingering of other
    brass instruments explained. T. Th., 2:30.
203. **BRASS INSTRUMENTS (Spring)**
1 Hr.
Continuation of 202, with practice on one other brass instrument. T. Th., 2:30.

101-106. **PIANO**

101-106. **VOICE**

**APPLIED MUSIC**

**VOICE**
**PROFESSOR EVANS**

These courses aim primarily to establish correct principles of breathing, tone production, diction, style, and all those phases of the work essential to success in any branch of the art of singing. A considerable amount of memorizing is required throughout the course. All vocal students are advised to study at least one modern language: French or German.

**VOICE 151, 152, 153**
Breathing. Tone production. Exercises. Easy songs in English and foreign languages.

**VOICE 154, 155, 156**
Continuation of first year. Vocalises. Easier recitatives and arias from standard operas and oratorios. Songs in several languages.

**VOICE 251, 252, 253**

**VOICE 254, 255, 256**
PIANO

PROFESSOR LAMALE AND MRS. IRIK

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

PIANO 151, 152, 153


PIANO 154, 155, 156


PIANO 251, 252, 253


PIANO 254, 255, 256


ORGAN

PROFESSOR LAMALE

No student will be accepted who has not reached the fourth grade in piano.

The course of study provides for thorough training in preparation for church and concert work. The course has been arranged to give a knowledge of the French schools of organ music through the study of the works of the best composers in this particular school.
ORGAN 151, 152, 153

ORGAN 154, 155, 156

ORGAN 251, 252, 253

ORGAN 254, 255, 256

VIOLIN

MR. WILLIHNGANZ

Elementary

A thorough grounding in the fundamentals of violin playing in the first position as to bowing, intonation and tone. Fischer's Graded Course, Books I and II; scales, double stop studies, and suitable solos with piano accompaniment are the materials used.

Intermediate

The higher positions, further development of bowing, intonation, and tone. Fischer's Graded Course, Books III and IV. Mazas' Etudes, Schradieck's School of Technic are used in conjunction with useful recital pieces and student concertos.

VIOLIN 151, 152, 153
Kreutzer's Etudes, Fischer's Scales, Casorti's "Technique of the Bow." Handel's Sonatas, Mozart's Sonatas, Kreutzer and Viotti's concertos, smaller numbers by Kreisler, De Beriot, Burleigh and others.

VIOLIN 154, 155, 156
VIOLIN 251, 252, 253

Rode and Gaviniès' Etudes, Wieniawski and Vieuxtemp's Concertos, Sonatas and solo material from nineteenth and twentieth century repertoire.

VIOLIN 254, 255, 256


REED AND BRASS INSTRUMENTS

PROFESSOR STRICKLING

The course of instruction covering three years, includes both private and class lessons, and daily band rehearsals. Private instruction on a solo instrument to be selected by the student, constitutes the major subject. Class instruction in which the student is given a playing knowledge of every band instrument is also included.
COLLEGE
OF
ENGINEERING

JOHN ALFRED NEEDY
Dean
HISTORY

The first catalogue of the University included a course in surveying. In 1880 a Department of Civil Engineering was organized. Departments in Mechanical and Electrical Engineering were established. In 1906, the Department of Chemical Engineering was inaugurated. Since then all the courses of the various curricula have been revised and greatly strengthened.

PURPOSE

Engineering has been defined as "the art and science of directing the great sources of power in nature for the use and convenience of mankind." As a rule engineering appeals to the student who is especially interested in science and mathematics. With this in mind, the aim of the College of Engineering of Ohio Northern University is to give ambitious young men of ability an opportunity to secure a thorough training in this field of education.

TIME TO ENTER

Those desiring to enter at the beginning of any quarter other than the fall quarter are advised to correspond with the Dean of the College relative to the advisability of admission at that particular time.

ADMISSION

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

1. **Certificate.** Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted, without examination, on presentation of properly signed entrance certificates. Distribution of fifteen units must be as follows:
English .................................................. 3
Mathematics, including solid geometry ...... 3
Physics .................................................. 1
Electives ................................................. 6

Two units to be chosen from the following list:
English 
Mathematics 
Science 

Applicants deficient in advanced algebra, solid geometry, or physics are assigned upgrading work.

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

3. Advanced Standing. An applicant from another college, seeking for advanced standing must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credit. He should submit a catalogue of his college of the current issue at the time of his admission to that college. Some credit may be allowed for practical experience in drafting, surveying, and shop work. Applicants for such credit must submit a satisfactory statement from their employer, giving time of service, nature of work, name and address of employer.

Advance credit will not be given for more than 162 quarter hours (108 semester hours).

4. Special Student. Mature persons not candidates for a degree, may be admitted, if on consultation the Dean is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as Special Students. Upon completion of their work, a certificate showing the course of study pursued and the amount of work covered is presented to them.
The official form for Certificate of Entrance, which may be had on application to the University Entrance Examiner, should be used in all cases, in order to insure the presentation of necessary information.

The standard load in the College of Engineering is 18 hours, no student being permitted to carry less than 15 hours. Extra hours based upon scholarship attainments may be granted by the Dean.

GRADUATION AND DEGREES

Two hundred and sixteen (216) credit hours are required for graduation. The student must have a scholarship rating of at least one quality point for each credit hour. A student cannot be a candidate for more than one degree at any one time.

The University is empowered to grant the customary scholastic degrees, which in the College of Engineering are Bachelor of Science in Civil Engineering, (B. S. in C. E.); Bachelor of Science in Mechanical Engineering, (B. S. in M. E.); Bachelor of Science in Electrical Engineering, B. S. in E. E.); and Bachelor of Science in Chemical Engineering, (B. S. in Chem. E.) Three years after graduation, upon the presentation of evidence of a creditable record, an approved thesis and a comprehensive examination, the professional degree is conferred.

SENIOR HONORS

Two forms of senior honors are recognized and conferred at graduation: honors (with distinction) granted to those who have a quality point average of 2.0 with no grade below D; and honors (with high distinction) granted to those who have a quality point average of 2.5 with no grade below C. These honors in scholarship are recorded on the diplomas, recognition being given at commencement. The names of students receiving such honors are printed in the college catalogue. No student may receive senior honors who has not been in residence at Ohio Northern for at least nine quarters.
CIVIL ENGINEERING

In the broader sense civil engineering includes all divisions of the field. Although many of the former divisions have grown into separate departments, civil engineering offers greater opportunities than ever before. No sharp line of distinction can be drawn in the fundamental training of civil, mechanical, electrical and chemical engineering, for the reason that the basic engineering sciences—mathematics, physics, chemistry, and some applied science—are essential in all departments of engineering.

The department is supplied with high grade instruments and appliances necessary for first class instruction and practice. The laboratories are well equipped, the drafting room large and modern, the scientific library excellent. A fully equipped senior design room has recently been completed.

CIVIL ENGINEERING CURRICULUM

First Year

FALL QUARTER

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<th>Credits</th>
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<tr>
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<td>College Algebra 101</td>
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</tr>
<tr>
<td>Engineering Drawing I</td>
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<tr>
<td>Chemistry 101a or 101</td>
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<tr>
<td>English 101</td>
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WINTER QUARTER

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<tr>
<td>Trigonometry 103</td>
<td>5</td>
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<tr>
<td>Chemistry 102a or 102</td>
<td>5</td>
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<td>English 102</td>
<td>3</td>
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<td><strong>Total</strong></td>
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SPRING QUARTER

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<tr>
<td>Engineering Drawing II</td>
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<tr>
<td>Qualitative Analysis 103a</td>
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<td>or 103</td>
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<tr>
<td>English 102a</td>
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## Second Year

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<tbody>
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<td>Differential Calculus 107 4</td>
<td>Differential and Integral Calculus 108 4</td>
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<tr>
<td>Physics 104 5</td>
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<td>Engineering Drawing III 5</td>
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## SPRING QUARTER

| Physical Education 1             |                                     |
| Economics 123 3                  |                                     |
| Integral Calculus 109 4          |                                     |
| Physics 105 5                    |                                     |
| Surveying II 5                   |                                     |
|                                  |                                     |
|                                  |                                     |
|                                  |                                     |
| **Total:** 18                    | **Total:** 18                       |

## Third Year

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<tr>
<td>Mechanics 5</td>
<td>Mechanics of Materials I 5</td>
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<td>Railroad Engineering I 5</td>
<td>Railroad Engineering II 3</td>
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<td>Geology 3</td>
<td>Hydraulics 5</td>
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## SPRING QUARTER

| Mechanics of Materials II 5      |                                     |
| Highway Engineering 3            |                                     |
| Testing of Materials 2           |                                     |
| Elementary Electric Machines I 5 |                                     |
| Elective 3                       |                                     |
|                                  |                                     |
|                                  |                                     |
| **Total:** 18                    | **Total:** 18                       |

## Fourth Year

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<td>Structural Engineering II 6</td>
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<tr>
<td>Reinforced Concrete I 4</td>
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<td>Financial Engineering 3</td>
<td>Water Supply 5</td>
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<tr>
<td>Sewerage 5</td>
<td>Foundations 3</td>
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<td><strong>Total:</strong> 18</td>
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## SPRING QUARTER

| Structural Engineering III 6     |                                     |
| Reinforced Concrete III 4        |                                     |
| Irrigation 5                     |                                     |
| Contracts and Specifications 3   |                                     |
|                                  |                                     |
|                                  |                                     |
| **Total:** 18                    | **Total:** 18                       |

Total number of hours for graduation 216.
Attendance at Engineering Lectures required.
Attendance on Inspection Trip required during third year.
ELECTRICAL ENGINEERING

The courses offered in this branch of engineering require a thorough study of theoretical and applied electricity. The first half of the prescribed course of study, is, in the main, the same as that in Civil and Mechanical Engineering curricula, including the fundamental engineering sciences, mathematics, drawing, and surveying. The second half consists of a study of strength of materials, hydraulics, thermodynamics, advanced work in the theory of electricity, laboratory testing of D. C. and A. C. machines, machine drafting and designing, power plant and wiring layouts, and a thorough course in electrical machine design.

The theoretical work is supplemented with practical application in the laboratory and 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. The University power plant comprises steam and gas engine units, a complete and modern steam heating, electric lighting, and water pumping plant, installed in 1922. In the laboratory both direct and alternating currents are available for testing purposes. A Western Electric 5A Oscillator and 52A Artificial Line have been given to the department and form a valuable addition for the investigation of communication and transmission circuits.

ELECTRICAL ENGINEERING CURRICULUM

First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>College Algebra 101</td>
<td>College Algebra 102</td>
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<td>Mechanism</td>
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<td>Hydraulic Machinery</td>
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Total numbers of hours for graduation 216.
Attendance at Engineering Lectures required.
Attendance on Inspection Trip required during third year.
MECHANICAL ENGINEERING

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

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

The University has its own steam and gas-engine-driven lighting plant and a central steam heating plant, lighting and heating all the University buildings. The equipment is installed with special conveniences for making laboratory tests on boilers, heating and power apparatus under operating conditions.

A machine shop supplements the laboratory equipment, giving opportunity for training in the use of tools and general machine shop practice.

MECHANICAL ENGINEERING CURRICULUM

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| Physical Education 1                     |
| Analytical Geometry 105 5                |
| Engineering Drawing II 4                 |
| Qualitative Analysis 103a or 103 5       |
| English 102a 3                           |
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### Second Year

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<td>Physics 104</td>
<td>Calculus 108</td>
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<td>Surveying I</td>
<td>Physics 106</td>
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<td>Engineering Drawing III</td>
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**SPRING QUARTER**

| Physical Education            | 1 |
| Economics 123                 | 3 |
| Integral Calculus 109         | 4 |
| Physics 105                   | 5 |
| Elementary Electric           |   |
| Machines I                    | 5 |
| **18**                        | **18**                       |

### Third Year

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**SPRING QUARTER**

| Mechanics of Materials II     | 5 |
| Steam Power Plants II         | 4 |
| Testing of Materials          | 2 |
| Machine Shop                  | 3 |
| Machine Design I              | 4 |
| **18**                        | **18**                       |

### Fourth Year

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<td>Hydraulics</td>
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<td>Mechanical Laboratory II</td>
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<td>Valve Gears</td>
<td>Power Plant Operation</td>
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<td>Gas and Oil Engineering</td>
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**SPRING QUARTER**

| Gas Engine Design             | 5 |
| Hydraulic Machinery           | 5 |
| Heating, Ventilation and     | 5 |
| Refrigeration                 |   |
| Seminar                       | 1 |
| Elective                      | 2 |
|                              | **18**                       |

Total number of hours for graduation 216.
Attendance at Engineering Lectures required.
Attendance on Inspection Trip required during third year.
CHEMICAL ENGINEERING

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

CHEMICAL ENGINEERING CURRICULUM

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# Third Year

### FALL QUARTER
- Organic Chemistry 107 5
- Geology 3
- Mechanics 5
- Thermodynamics 5

Total: 18 credits

### WINTER QUARTER
- Organic Chemistry 108 5
- Mechanics of Materials I 5
- Engineering Drawing III 5
- Elective 3

Total: 18 credits

### SPRING QUARTER
- Organic Chemistry 109 5
- Mechanics of Materials II 5
- Chemical Mathematics 4
- Elementary Electric Machines I 5

Total: 19 credits

# Fourth Year

### FALL QUARTER
- Physical Chemistry 215 3
- Qualitative Analysis 211 5
- Metallurgy 4
- Surveying I 5

Total: 17 credits

### WINTER QUARTER
- Chemical Preparations 5
- Industrial Organic Chemistry 210 5
- Hydraulics 5
- Physical Chemistry 216 3

Total: 18 credits

### SPRING QUARTER
- Physical Chemistry 217 3
- Industrial Inorganic Chemistry 217 5
- Chemical History 4
- Elective 6

Total: 18 credits

Total number of hours for graduation 216.

Attendance at Engineering Lectures required.

Attendance on Inspection Trip required during third year.
TECHNICAL ORGANIZATIONS

The Ohio Northern Student Chapter of the American Society of Civil Engineers holds bi-monthly meetings. All civil engineering students are eligible for membership.

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

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

The Ohio Northern Branch of the American Society of Mechanical Engineers holds bi-monthly meetings at which original papers in this field of engineering are read and discussed by the members of the society. Students enrolled in the department of mechanical engineering are eligible for membership.

The Ohio Northern University Radio Club maintains a short-wave station, 8PP, gives code practice and short-wave operating experience and holds bi-monthly meetings at which papers and talks on radio subjects are presented.

The Ohio Northern section of the American Chemical Society, comprising Hardin, Hancock, Putnam, Allen, and Auglaize counties, holds meetings every month. Scientific men of national and often international renown appear before this group from time to time.

During the past year the following prominent engineers and teachers lectured to the students: Frank E. Eno, Research Professor of Highway Engineering, Ohio State University; Lynn A. Scipio, Dean of Engineering, Roberts College, Constantinople; Grover A. Hughes, Engineering Department, The Truscon Steel Co., Youngstown, Ohio; A. A. Potter, Dean of the College of Engineering, Purdue University; R. B. Moore, Dean of Science, Purdue University, Lafayette, Indiana; George W. Lumm, Director of Aviation and Lubricating Engineer, Standard Oil Co., of Toledo, Ohio.
THE ANNUAL INSPECTION TRIP

The junior class devotes one week to an extended visit to some large commercial center. The class spends its time profitably in the study of various phases of engineering and industrial activity in Chicago, Milwaukee, South Bend, Detroit, Pittsburgh, or Cleveland areas.

POSITIONS

Past experience shows that the demand for graduates of the College of Engineering exceeds the supply. Often representatives of leading utilities and industries visit the University to interview seniors relative to employing them upon graduation. However, the University does not guarantee positions to its graduates.

DESCRIPTION OF COURSES

PROFESSORS NEEDY, ELBIN, CAMPBELL, SLEESMAN, WEBB, BERGER AND FAIRCHILD

CHEMISTRY

113. CHEMICAL PROBLEMS AND EQUATIONS (Spring) 4 Hrs.

The bond method for balancing equations is emphasized. Chemical calculations follow closely the needs of the student who may later find occupation in chemical laboratory work. This includes alligation medial and alligation alternate. M. T. W. Th., 10:00.

Note: See Department of Chemistry under College of Liberal Arts for other courses in chemistry.
CIVIL ENGINEERING

1. **Surveying I (Fall)**
   Use of chain, level and transit. Prerequisite: Trigonometry. Recitations, M. W. F., 10:00; laboratory, T. Th., 1:30-4:30 or M. W., 2:30-5:30.
   5 Hrs.

2. **Surveying II (Spring)**
   Land surveying, topographic surveying by stadia and transit, city surveying and measurements of volumes. Prerequisite: Surveying I. Recitations, T. Th. F., 10:00; laboratory, M. W., 2:30-5:30.
   5 Hrs.

3. **Railroad Engineering I (Fall)**
   Simple curves, compound curves, reverse curves, spirals, switches and turnouts. Prerequisite: Surveying II. Recitations, M. T. W. Th., 11:00; laboratory, F., 1:30-4:30.
   5 Hrs.

4. **Railroad Engineering II (Winter)**
   Organization, rules, ballast, ties, rails, track design, trestles, culverts, roadway machines, work of the maintenance of way department. Prerequisite: Railroad Engineering I. Recitations, M. W. F., 2:30.
   3 Hrs.

5. **Highway Engineering (Spring)**
   Design, construction and maintenance of earth roads, paved roads and streets. Prerequisites: Geology and Surveying II. Recitations, M. W. F., 11:00.
   3 Hrs.

6. **Geology (Fall)**
   A study of the earth's crust dealing with rock form and structure, and the formation of mineral deposits, mountain folds and faults. Prerequisite: General Chemistry. Recitations, M. W. F., 7:30.
   3 Hrs.

7. **Sewerage (Fall)**
   General course on sewerage system and disposal of sewerage. Prerequisite: Hydraulics. Daily, 11:00.
   5 Hrs.

8. **Irrigation (Spring)**
   History, use of water for irrigation, collecting and distributing works, construction and maintenance. Prerequisite: Hydraulics. Daily, 9:00.
   5 Hrs.

9. **Hydraulics (Winter)**
   Static water pressure, flotation, buoyancy, laws of falling bodies applied to hydraulics, measurements of flow. Prerequisites: Physics, Calculus 109 and Mechanics. Daily, 10:00 or 11:00.
   5 Hrs.

10. **Mechanics (Fall)**
   This course covers concurrent forces, nonconcurrent forces, center of gravity, moment of inertia. Prerequisites: Physics 104 and Calculus 109. Daily, 10:00.
General principles of stresses, elastic limit, shear, riveted joints, torsion, beams, stresses in beams, deflection in beams. Prerequisites: Calculus 109 and Mechanics. Daily, 9:00 or 11:00.

12. **Mechanics of Materials II (Spring)** 5 Hrs.
Beams with more than two supports, shear in beams, special beams, bending combined with tension or compression, column theory, column formulas used by engineers, resilience in bending or shear, combined stresses, theory of elastic limit and failure, curved beams and hooks. Prerequisite: Mechanics of Materials I. Daily, 9:00 or 11:00.

13. **Structural Engineering I (Fall)** 6 Hrs.
An introductory course covering by analytical and graphical methods the determinations of reactions, moment, shears and stresses in simple trussed structures for fixed and moving loads. Design steel and wood beams, and design and make detail drawings of simple roof truss. Prerequisites: Mechanics of Materials I, II M.W.F., 1:30-4:30.

14. **Structural Engineering II (Winter)** 6 Hrs.
An extension of structural engineering I. Credit 6 hours covering the use of influence lines and the design of plate girders and columns. Design and make detail drawings of a plate girder viaduct. Prerequisite: Structural Engineering I. M.W.F., 1:30-4:30.

15. **Structural Engineering III (Spring)** 6 Hrs.
A continuation of Structural Engineering II. Covering analytical and graphical methods of determining stresses due to fixed and moving loads in simple span railway bridge trusses of the larger type. Design and make detail drawings of a railway pin-truss span. Prerequisite: Structural Engineering II. M.W.F., 1:30-4:30.

17. **Reinforced Concrete I (Fall)** 4 Hrs.
Design of concrete beams, girders, slabs, columns and footings. Prerequisite: Mechanics of Materials, M.T.W. Th., 9:00.

18. **Reinforced Concrete II (Winter)** 4 Hrs.
Design of buildings and retaining walls. Prerequisite: Reinforced Concrete I. Recitation 2 hours; drafting room 4 hours. T. Th., 1:30-4:30.

19. **Reinforced Concrete III (Spring)** 4 Hrs.
Design of retaining walls and bridges. Prerequisite: Reinforced Concrete II. Recitations, 2 hours; drafting room 4 hours. T. Th., 1:30-4:30.

20. **Water Supply (Winter)** 5 Hrs.
Requisites of a water supply, quality of water, collecting and distributing works, studies of rainfall and runoff, works for treating water. Theory of dams. Prerequisite: Hydraulics. Daily, 9:00.
21. TESTING MATERIALS (Spring) 2 Hrs.
   Testing cement mortars, tests of small wooden beams and columns with deflection instrument, tension test of steel and iron extensometer, tests for impurities in concrete aggregates, sieve analysis of concrete aggregates. Prerequisite: Mechanics of Materials I. Laboratory, T. Th., 1:30-3:30.

22. FOUNDATIONS (Winter) 3 Hrs.
   A descriptive course dealing with pile foundations, pile driving, sheet piling caissons, open and pneumatic caissons, open wells, types of piers and abutments and underpinning. Prerequisite: Reinforced Concrete I. M. W. F., 10:00.

23. CONTRACTS AND SPECIFICATIONS (Spring) 3 Hrs.
   A study of the principle of specification writing and law of contracts. Examination and criticism of different current standard contracts and specifications. Cannot be taken before the seventh quarter. M. W. F., 10:00.

24. FINANCIAL ENGINEERING (Fall) 3 Hrs.
   An analysis of the problems of investment, with discussion of interest, depreciation, first costs and business statistics. M. W. F., 10:00.

DRAWING

1. ENGINEERING DRAWING I (Fall, Winter) 4 Hrs.
   Use of instruments. Applied geometry, lettering, orthographic projections, and pictorial drawing. Ten hours drafting room work each week.

2. ENGINEERING DRAWING II (Spring) 4 Hrs.
   Developments, intersections, perspective and working drawings. Prerequisite: Engineering Drawing I. Ten hours work in drafting room each week.

3. ENGINEERING DRAWING III (Winter) 5 Hrs.
   Descriptive geometry, advanced orthographic projections, problems of point, line, plane and curved surfaces. Shades and shadows. Prerequisite: Engineering Drawing II. Recitations, 3 hours. Six hours drafting room work each week.
ELECTRICAL ENGINEERING

1. **Elementary Electric Machines I** *(Spring)* 5 Hrs.
   Introductory course for all engineering students. The electric and magnetic circuits, D. C. generators and motors, train lighting and storage batteries. Prerequisites: Plane Trigonometry and Physics 106. Daily, 7:30.

2. **Elementary Electric Machines II** *(Fall)* 4 Hrs.
   Continuation of course 1. Alternating current circuits, alternators, transformers, induction motors, transmission, illumination. Prerequisite: Elementary Electric Machines I. M. T. W. Th., 7:30.

4. **Elementary Electric Machines Lab.** *(Fall)* 4 Hrs.

5. **Electric Machines I** *(Fall)* 5 Hrs.
   The magnetic and electric currents, self and mutual induction, D. C. motors and generators, meters, batteries. Prerequisite: Elementary Electric Machines I. Daily, 9:00.

6. **Electric Machines II** *(Winter)* 5 Hrs.
   A. C. circuits, instruments, generators, transformers, induction motors, synchronous motors and converters. Prerequisite: Elementary Electric Machines II and Electric Machines I. Daily, 7:30.

7. **Electric Machines III** *(Spring)* 5 Hrs.
   A laboratory course in D. C. dynamo testing. Prerequisite: Electric Machines I. M. T. W. Th., 1:30.

8. **Electric Machines IV** *(Winter)* 4 Hrs.
   Direct current machine design. Prerequisite: Electric Machines I. M. T. W. Th., 10:00.

9. **Electric Machines V** *(Winter)* 5 Hrs.
   Alternating currents, the solution of circuits containing resistance, inductance and condensers. Power in single and polyphase circuits, transformers. Prerequisite: Elementary Electric Machines II. Daily, 9:00.
10. **Electric Machines VI (Spring)** 5 Hrs.

Alternating current machines. Induction motors, alternators, synchronous motors, rotary converters and single phase commuter motors. Daily, 10:00.

11. **Electric Machines VII (Fall)** 5 Hrs.

Insulation, the dielectric circuit, short transmission lines, phase control, commercial wave forms. Prerequisites: Electric Machines V, VI. Daily, 10:00.

12. **Electric Machines VIII (Fall)** 4 Hrs.

Alternating current machine design. M. T. W. Th., 11:00.

13. **Electrical Machines IX (Winter)** 5 Hrs.

A laboratory course in the testing of alternating current machinery. M. T. W. Th., 1:30.

14. **Electrical Machines X (Spring)** 4 Hrs.

Polyphase systems, various forms of notation, short and long transmission lines. Prerequisite: Electric Machines VII. M. T. W. Th., 9:00.

15. **Shop Projects** 2 to 5 Hrs.

Required for graduation. Practical projects involving calculation, drafting, engineering judgment and skill in construction or repair work. These projects may vary from armature winding and motor repairing to the design and construction of laboratory apparatus. This course involves no class room or text book work and the course is usually covered in two hours per quarter for one or more quarters. Individual assignments are made to each student.
MECHANICAL ENGINEERING

1. THERMODYNAMICS (Fall) 5 Hrs.

2. STEAM POWER PLANTS I (Winter) 4 Hrs.
   A study of the combustion, handling and storage of fuel, and of steam generating machinery including boilers, stokers, steam engines and condensers. Prerequisites: Physics 105 and Thermodynamics. M. T. W. Th., 10:00.

3. STEAM POWER PLANTS II (Spring) 4 Hrs.
   A continuation of Steam Power Plants I with consideration given to complete installations, the cost of power, typical specifications and the power test codes. M. T. W. Th., 9:00.

4. STEAM TURBINES (Winter) 4 Hrs.
   Nozzle and blade design, mechanical losses, impulse turbines, reaction turbines, impulse reaction turbines, governing, economics of turbine operation, and the gas turbine. Prerequisite: Thermodynamics. M. T. W. Th., 9:00.

5. GAS AND OIL ENGINES (Fall) 3 Hrs.
   Liberation of heat energy, combustion, engines burning gas, kerosene and gasoline, semi-Diesel and Diesel engines, automobile engines, carburetion, ignition and testing. Prerequisite: Thermodynamics. M. W. F., 10:00.

6. VALVE GEARS (Fall) 2 Hrs.
   The Bilgram and Zeuner diagrams, port openings and passage areas, slide valves, colliess valve gears, poppet valves, shaft governing, valve setting, reversing gears. Prerequisites: Eng. Drawing III and Thermodynamics. T. Th., 10:00.

7. METALLURGY (Fall) 4 Hrs.
   The manufacture of pig iron, wrought iron and steel, mechanical treatment of steel, iron and steel founding, physical and chemical constitution of iron and steel, alloy metals, metallography. Prerequisite: Chemistry 103. M. T. W. Th., 11:00.
8. **Heating, Ventilation and Refrigeration**  
*(Spring)* 5 Hrs.  
Heating and ventilation. Heat losses from buildings, methods of heating, boilers, radiators, and accessories, steam systems, hot water systems, automatic temperature control, hot air furnace heating, fan systems, air washers and air conditioning. Cold and its production, commercial systems of refrigeration, compression systems, ice making systems, installation and operation of a refrigerating system, capacity of refrigerating machines, cold storage duty. Prerequisite: Thermodynamics. M. T. W. Th., 2:30.

9. **Hydraulic Machinery** *(Spring)* 5 Hrs.  
Hydraulic turbines. Types of turbines and setting, water power, tangential water wheels, reaction turbines, governors, testing, selection of type. Centrifugal pumps, description, installation and operation, theory, classification, disk friction, efficiency, testing, costs, application, design. Prerequisites: Calculus 108, Hydraulics I. Daily, 10:00.

10. **Mechanism** *(Winter)* 5 Hrs.  
Mechanisms, motion and velocity, kinematic chains, instantaneous centers, velocity diagrams, parallel and straight line motion, cams, gearing, bevel gears, gear trains, belting, intermittent motions. Daily, 2:30.

11. **Machine Design I** *(Spring)* 4 Hrs.  

12. **Machine Design II** *(Winter)* 4 Hrs.  
Complete design and detail of machine units. M. T. W. Th., 11:00.

13. **Gas Engine Design** *(Spring)* 5 Hrs.  
Design of gas or oil engine. Complete calculations and detail drawings required of each member of the class. Prerequisites: Gas and Oil Engines and Machine Design I. Daily, 11:00.

14. **Mechanical Laboratory II** *(Winter)* 3 Hrs.  
Calibration of instruments, use of planimeter, study of engine indicators and their use, determination of steam quality, proximate coal analysis, heating value of coal by use of bomb calorimeter, flue gas analysis, testing of lubricating oils for flash point, fire point and viscosity. Prerequisite: Thermodynamics. T. Th., 1:30-3:30.
15. **MECHANICAL LABORATORY II (Winter)** 3 Hrs.
   Boiler evaporative test, engine indicator and brake horsepower tests, indicator card analysis, efficiency tests of injector, electric motor, ventilating fan, centrifugal pump and automobile motor. Prerequisite: Mechanical Laboratory I. T. Th., 1:30-3:30.

16. **MACHINE SHOP (Spring)** 3 Hrs.

17. **POWER PLANT OPERATION (Winter, Spring)** 5 Hrs.
   Practical work in the operation and maintenance of the University Power Plant. Prerequisites: Steam Power Plants I and II. Daily, 7:00-5:00.

18. **SEMINAR** 1 Hr.
   Preparation of original papers and discussion of important subjects relating to mechanical engineering.
WARRENG. HARDING

COLLEGE

OF

LAW

WILLIAM PRICE HENDERSON

Dean
History

The College of Law was organized as a department of the University in 1885, and has been in continuous operation since that date. It numbers among its alumni and former students many of the most prominent lawyers in Ohio and other states. Its graduates have been successful beyond the average as candidates for admission to the Bar at the State Bar Examinations, and as practitioners afterwards.

Purpose

The aim of its founders, continued through the ensuing years, was to afford an opportunity for students, both men and women, of limited means, to obtain a collegiate training in Law, and by connection with the University to offer them the added opportunity for the general preliminary education indispensable to its successful study and practice. Tuition rates, therefore, are low and reasonable. The courses are planned primarily to train students for the practice of law, but they may also be pursued advantageously by any one desiring to acquire a knowledge of the principles and history of law, either as part of a liberal education, or as part of the foundation for a business career.

In training students for the practice of law, the College of Law has three chief aims:

1. To impart a systematic and complete grounding in the history and fundamental principles of law, and a readiness and accuracy in the application of these principles to the complicated relations, rights and duties arising in our modern commercial social organization.

2. To impart a thorough and ready working knowledge of the Common law and of Statute law (particularly the Statutes and decided cases of Ohio) to the end that the young lawyer may be prepared to serve his clients efficiently.

3. To inculcate the principles of legal ethics and of the lawyer's public responsibility, so that the young lawyer may be prepared to take his place as a trusted leader, counselor, and guide in his community.
EQUIPMENT

The new building for the College of Law, built of ornamental brick in the classical style, and costing with furniture and other equipment about $100,000, has been in use for a few years. It is designed to furnish a convenient, commodious home for the College of Law, and has ample facilities to meet the needs of increasing enrollment. The law library is up-to-date, modern, well selected, and with its systems of reports and digests affords fullest means and facilities for detailed legal research. The reading room, in connection with the law library, is commodious, well-lighted and pleasant, and carries current copies of the leading law periodicals.

METHODS OF INSTRUCTION

Instruction is based upon the case-book method. To the cases found in the case-book are added selected cases from Ohio and other jurisdictions. The lecture hour includes a thorough questioning of the student upon the cases studied and informal discussions by instructors and students upon the underlying and distinguishing principles illustrated by the cases.

MOOT COURT

There is a court room in the law building, completely and correctly furnished and equipped for modern court proceedings, and Moot Court, under the direct supervision of the faculty, forms a regular part of the work in which each student must participate. Students are required to prepare all the papers necessary in the case, and to follow the customary order of procedure. Pleadings, writs, motions and journal entries are thus prepared; juries impaneled, witnesses examined and cross-examined, arguments made to Court and jury, and in short, every step is taken in the moot case conforming to the procedure followed in a litigated action in a court of record; in a similar way, the Moot Court requires practice in the Appellate Courts, giving practical acquaintance with the proceedings and preparation of the necessary papers, in instituting and carrying on to completion cases appealed or brought up for review on petition in error.

In connection with the Moot Court, a course in the use of law books, legal bibliography and legal research is given.
ADMISSION

Students entitled to admission may enter the College of Law at the beginning of any quarter; but to receive the fullest benefit of the regular law course, students who are entering as candidates for a degree are urged to enter in September, the beginning of the academic year.

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

1. Certificate. To enter the freshman year of law the requirements are (1) graduation from a first grade high school, and (2) two years of collegiate study in an approved College of Liberal Arts (60 semester hours or 90 quarter hours, exclusive of physical education). A student desiring to enroll in the College of Law should cause to be sent to the University Entrance Examiner, at least ten days prior to the beginning of the quarter, his certificate of high school graduation and his transcript of collegiate work; these two papers must be on file, either for entrance to the College of Law or for registration as a law student upon the rolls of the Supreme Court; in no case can a deficiency in pre-law study be made up concurrently with the work of the College of Law.

A Pre-Law course is required by order of the Supreme Court of Ohio. The Arts-Law combination course, while not required, demands but one more year of study, and is strongly recommended by the law faculty, as valuable and profitable preliminary training. (See pages 63 and 64 of this catalogue for description of Pre-Law and Arts-Law courses.)

2. Advanced Standing. Advanced credit will be given for not more than two years of law study in residence at any reputable law school in the United States maintaining a three-year full-time course; proper credit will be given upon certificate, for study in residence at any reputable law school in the United States maintaining a full-time course of study less than three years in length. Proper credit will be given by certificate or by examination upon subjects for which advanced standing is desired for work done in reputable part-time schools, having regard to the time devoted to such subjects in such schools, as compared to the time required for them in the course of study prescribed here.
All examinations required under the next preceding paragraph must be taken within two weeks after matriculation, and are subject to the usual fee for special examinations.

3. Special Student. Persons who are not candidates for a degree and who have sufficient education and experience to study law with profit may enter the College of Law as special students, even though they cannot meet the entrance requirements for a degree. Any one desiring to enter as a special student or to secure fuller information in regard to preliminary education should write to the University Entrance Examiner.

GRADUATION

The degree of Bachelor of Laws is conferred on students (1) who have completed satisfactorily the prescribed courses outlined in the law curriculum, or who have received credit therefor in accordance with the section entitled “Advanced Standing,” and (2) who have studied in residence at this College for at least three quarters immediately preceding graduation, and (3) who have at least 134 quality points.

GENERAL REGULATIONS

1. Special students may select from the courses offered such work as they desire, with the approval of the Dean, not to exceed a maximum of 16 credit hours per quarter. Special students may not become candidates for a degree.

2. Hours above 18 are considered as excess and are subject to special tuition rates. Only in exceptional cases are regular students allowed excess hours.

3. Chapel and class attendance are compulsory. The rules given under the heading “Government” in an earlier section of this catalogue are strictly enforced.

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

SPECIAL BULLETIN

The special bulletin of the College of Law, published annually and containing detailed information concerning courses and other matters of interest to a prospective student, will be sent upon application to the Office of the President.
## Law Curriculum

### First Year

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<td>Constitutional Law</td>
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<td>Practice</td>
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<td>Legal Ethics</td>
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DESCRIPTION OF COURSES

PROFESSORS HENDERSON, WEBER, PETTIT, AND SMITH

FIRST YEAR

CIVIL PROCEDURE (Fall) 3 Hrs.
The purpose of this course is to introduce beginners to the language of the law; the processes and functions of courts, analysis of cases, the source books and search books of the law, and in general, to acquaint the beginner with the scope of the courses involved in a law course. M. W., 11:00 and Th., 10:00.

PERSONAL PROPERTY (Fall) 3 Hrs.
This course deals with the distinctions between real and personal property; of the title to personal property and its transfer by convention and by law; its use and liabilities arising therefrom. T. Th. F., 11:00.

DOMESTIC RELATIONS (Fall) 3 Hrs.
This course includes the law of marriage and divorce, parent and child, the rights and liabilities of husband and wife, the rights and liabilities of infants, and a thorough study of the statutes of Ohio in regard thereto. M. W. F., 10:00.

CONTRACTS I (Fall) 5 Hrs.

CONTRACTS II (Winter) 4 Hrs.
Fundamental courses dealing with the nature of a contract; the capacity of the parties, offer and acceptance; consideration; requisites of contracts under seal; the performance of contracts, including conditions and impossibility of performance; the discharge of contracts; rights of beneficiaries, joint and several contracts; assignment of contracts; illegal contracts; and the statute of frauds. Daily, 9:00.

AGENCY (Winter) 5 Hrs.
The nature and purposes of the agency relation, parties, methods of creating the relationship, the nature and extent of the authority, the duties and liabilities of the agent to the principal and third persons, the duties and liabilities of the principal to the agent and third persons, also a consideration of workman's compensation legislation, and other phases of the subject of master and servant.

TORTS I (Winter) 3 Hrs.

TORTS II (Spring) 4 Hrs.
Personal rights and duties, both absolute and those arising from social relations; violations of such rights, either by direct force or indirectly by fraud, negligence; different kinds and classes of torts; defenses, excuse, justification, and other defenses by way of confession and avoidance; self-defense, contributory negligence, its scope and limitations by modern Employer's Liability statutes; pleading, evidence and measure of damages.
REAL PROPERTY I (Winter) 3 Hrs.
REAL PROPERTY II (Spring) 3 Hrs.

These courses treat of the historical origin of land law, tenure, seizin, the differentiation of estates in land, rights in air, water, easements, covenants running with land, licenses, rents, waste and public rights.

CRIMINAL LAW AND PROCEDURE (Spring) 5 Hrs.

This course aims to give a comprehensive view of the general nature and theory of crimes, with a detailed study of the particular crimes against persons and property, and also of the machinery set up to enforce the criminal law, from the complaint and arrest through the trial to the execution of sentence.

QUASI-CONTRACTS (Spring) 3 Hrs.

The nature of the obligation; restitution at law for benefits conferred under mistake of fact or mistake of law; benefits conferred under a contract where impossibility, illegality, the statute of frauds or wilful default is involved; benefits conferred without a contract; or benefits conferred under compulsion; waiver of tort.

SECOND YEAR

WILLS AND ADMINISTRATION OF ESTATES (Fall) 5 Hrs.

The course treats of the nature of testamentary dispositions.

REAL PROPERTY III (Fall) 3 Hrs.
REAL PROPERTY IV (Winter) 3 Hrs.

The title to real property and its transfer by act of parties and by operation of law.

NEGOTIABLE INSTRUMENTS (Fall) 4 Hrs.

This course involves the consideration of the general principles governing bills of exchange, promissory notes, and checks, and the uniform negotiable instruments law.

FUTURE INTERESTS (Winter) 3 Hrs.

A study of future interests, vested and contingent, in real property.

PARTNERSHIP (Fall) 3 Hrs.

This course deals with the formation of the relationship, partner's interest and title in partnership property; powers of partners; rights of creditors both against partners and their property; actions between partners at law and in equity; dissolution and distribution of partnership property; limited partnerships.

MUNICIPAL CORPORATIONS (Spring) 3 Hrs.

This course treats of the general nature, and rights and liabilities of public corporations, (cities, villages, counties and townships).
DAMAGES (Winter) 3 Hrs.
In this course the rules governing the measure of damages in actions of contract and tort are considered.

SALES (Winter) 3 Hrs.
The topics included in this course are formation of the contract, the statute of frauds, the passing of the property, fraud and retention of possession, illegality, conditions and warranties, performance, rights of the seller and the buyer in case of breach.

PRIVATE CORPORATIONS (Winter) 3 Hrs.
The nature of the corporation and its legal differentiation from partnership, joint stock associations and individuals. Special attention is given to the recent Ohio Corporation Code, including all the statutory steps requisite to incorporation.

EQUITY I (Spring) 5 Hrs.
EQUITY II (Fall) 5 Hrs.
These courses involve the consideration of the rise of the court of equity; the powers of such court; principles governing the exercise of equitable powers.

MORTGAGES (Spring) 3 Hrs.
The various theories of the mortgage including the historical evolution thereof in equity; recording statutes; and other problems in connection with the law of mortgages.

SURETYSHIP (Spring) 4 Hrs.
This course includes the creation of the relationship, the contract, the statute of frauds, the rights and remedies, the defenses, guaranty contracts and letters of credit, private and corporate sureties, and incidentally a consideration of the different kinds of bonds.

THIRD YEAR

PLEADING I (Fall) 3 Hrs.
PLEADING II (Winter) 3 Hrs.
Common law pleading and code pleading, with outstanding differences in systems. Pleadings in appellate courts, in error proceedings and in criminal cases.

EVIDENCE I (Fall) 3 Hrs.
EVIDENCE II (Winter) 3 Hrs.
Competency of witnesses at common law and under modern statutes; burden of proof, prima facie cases and presumptions of law; the best evidence rule, hear-say rule and exceptions, parole evidence rule and exceptions.
CONSTITUTIONAL LAW I (Fall)  4 Hrs.
CONSTITUTIONAL LAW II (Winter)  2 Hrs.

Courses include the interpretation of the constitutional limitations for the protection of life, liberty and property, police power, taxation, eminent domain, obligation of contracts; and a consideration of the law of the American federal system, with special reference to inter-state commerce, the powers of Congress and the jurisdiction of the federal courts.

TRUSTS (Winter)  5 Hrs.

This course treats of the origin and development in courts of equity of the theory of trusts and trustees.

INSURANCE (Spring)  3 Hrs.

This course includes the nature and requisites of the contract, parties, insurable interest, premiums, representations and warranties, agents and their powers, waiver and estoppel, rights under the policy, a study of the standard fire policies, life insurance, marine and accident.

CONFLICT OF LAWS (Spring)  2 Hrs.

This course treats of the principles of private international law; jurisdiction of courts; the law governing torts, contracts, divorce, transfers of property by deed, will and intestate succession; penal statutes; marriage, adoption, domicile; foreign judgments and such procedural matters as statutes of frauds and of limitations.
HISTORY AND PURPOSE

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

This college is a member of the American Association of Colleges of Pharmacy, the object of which is to promote the interests of pharmaceutical education. All institutions holding membership in the association must maintain certain minimum requirements for entrance and graduation. Many of the states by law or board ruling have adopted the standards of the association as a minimum requirement for admission to the licensing examinations.

The student is carefully instructed in the duties of the pharmacist in connection with his services to the public, in the duties of the pharmacist in his relation to the physician, in the duties of the pharmacists to each other, and in his duties to the profession at large.

Many states either by law or ruling of the Board of Examiners require graduation from a recognized College of Pharmacy as a prerequisite to examination for registration. Graduates from either of the courses offered here enjoy broad and liberal recognition.

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

LABORATORIES AND EQUIPMENT

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

The laboratories for practical chemical work are equipped with the accessories necessary for chemical analysis and syn-
thesis. In these laboratories the student is required to perform a satisfactory amount of analytical and synthetical work under personal supervision.

The microscopic laboratory is equipped with fine instruments for individual microscopic investigation.

Recent changes have been made in the pharmaceutical dispensing and quantitative chemistry laboratories. The pharmaceutical dispensing laboratory has been moved into new quarters, special work tables made by one of the leading drug store fixture manufacturers have been added and each work table is equipped with a complete set of such apparatus as is needed in extemporaneous compounding and dispensing. The quantitative chemistry laboratory has been greatly enlarged, and new types of apparatus added to each work desk. Chainomatic balances are the predominating type of analytical balances used.

**TIME TO ENTER**

The College of Pharmacy opens on Thursday, September 18, 1930, and continues thirty-six weeks, with an intermission at Christmastide. All matriculants must enter the College of Pharmacy on opening date and attend the introductory exercises unless excused by proper authority.

Students who are entitled to advanced standing shall enter at the time approved by the Dean.

**ADMISSION**

Candidates who are at least seventeen years of age and of good moral character may apply for admission upon the following plans:

1. *Certificate*. Graduates from first grade high schools, accredited normal schools or academies are admitted, without examination, on presentation of properly signed entrance certificates. These certificates must be made out and signed by the proper official of the school from which the applicant comes, and show in detail (1) the text book used in each subject, (2) the amount of work completed, (3) the number of weeks
spent thereon, (4) the length in minutes of the recitation period, (5) the mark or grade secured, and (6) a certificate of preliminary education issued by the Entrance Examiner of the Ohio Board of Pharmacy. Blanks for this purpose may be had by addressing the University Entrance Examiner.

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

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

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

Advanced credit is given for not more than 135 quarter hours (90 semester hours), exclusive of physical education in the four-year course and 90 quarter hours (60 semester hours) exclusive of physical education, in the three-year course.

4. Special Student. Persons who can qualify to take the examination for pharmacist under the laws existing on or before July 1, 1917, and who do not desire to earn a degree may enter any department and pursue the studies they choose, if, on consultation, the head of the department is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as special students.

Persons who meet the requirements for admission as indicated in the preceding paragraphs are issued a Permit to Enter the College of Pharmacy. To enter any of the regular courses of study the candidate, after being granted a Permit to
Enter, must matriculate, prepare a schedule of study with the aid of an adviser and approval of the Dean, and pay tuition and fees as stated elsewhere in this catalogue.

Requirement for Graduation

Every person upon whom a degree is conferred must (1) be of good moral character, (2) satisfactorily complete all prescribed work, (3) spend the last year in resident study in this college, (4) have as many quality points as credit hours, and (5) be present at the commencement exercises unless officially excused.

Electives

To reach more effectively the objective of the student, electives may be chosen from the following departments: Pharmacy, Law, Business Administration, Modern Language, Biology, Teacher Training. (Note the description of these courses elsewhere in this catalogue.)

Electives cannot be substituted for any of the major subjects in the Materia Medica, Chemistry, or Pharmacy sections. In the three-year course, fifteen quarter-hours may be elected; in the four-year course thirty quarter-hours may be elected. All elections are subject to the approval of the Dean.

Major subjects in the materia medica, chemistry, and pharmacy sections are as follows: Pharmacognosy I, II, III, Materia Medica III, Toxicology, Chemistry 101, 102, 103, 104, 105, 107, 108, Pharmaceutical Arithmetic, Pharmacy 1, 1a, 2, 3a, 3b and 10.

Curricula

The great demand from the pharmacists for a degree that is distinctly pharmaceutical and not likely to be confused with other degrees led the American Association of Colleges of Pharmacy to adopt the degree of Pharmaceutical Graduate, Ph. G., as the appropriate degree for the minimum three-year course.
# Three-Year Course in Pharmacy

## Degree: Pharmaceutical Graduate

### First Year

#### Fall Quarter
- Physical Education 1
- Pharmaceutical Botany I 5
- Chemistry 101 or 101a 5
- Pharmaceutical Technique 5

#### Winter Quarter
- Physical Education 1
- Pharmaceutical Botany II 5
- Chemistry 102 or 102a 5
- Pharmacy I 5

#### Spring Quarter
- Physical Education 1
- Physiology 5
- Chemistry 103 or 103a 5
- Pharmaceutical Latin 2
- Pharmaceutical Arithmetic 3

### Second Year

#### Fall Quarter
- Physical Education 1
- Pharmacognosy I 5
- Chemistry 107 or 104 5
- Pharmacy Ia 5

#### Winter Quarter
- Physical Education 1
- Pharmacognosy II 5
- Chemistry 108 or 105 5
- Pharmacy II 5

#### Spring Quarter
- Physical Education 1
- Pharmacognosy III 5
- Chemistry 109 or 106 5
- Pharmacy IV or XI 5

### Third Year

#### Fall Quarter
- Materia Medica III 2
- Toxicology 3
- Chemistry 104 or 107 5
- Pharmacy V or VIIa 3
- Pharmacy IIIa 2

#### Winter Quarter
- Materia Medica II 5
- Chemistry 105 or 108 5
- Pharmacy VI or VIIb 3
- Pharmacy IIIb 2

#### Spring Quarter
- Bacteriology 5
- Chemistry 106 or 109 5
- Pharmacy IV or VIIc 3
- Pharmacy IIIc 2
- Pharmacy X 5

At least 3,018 clock-hours are required to complete this course, 898 clock-hours in lectures and recitations and 2,120 clock-hours in the laboratory.
### Four-Year Course in Pharmacy
**Degree: Bachelor of Science in Pharmacy**

#### First Year

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<td>Physics 111</td>
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#### Second Year

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<tr>
<td>Pharmaceutical Botany I</td>
<td>Pharmaceutical Botany II</td>
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<tr>
<td>Chemistry 104 or 107</td>
<td>Chemistry 105 or 108</td>
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<td>Pharmaceutical Technique</td>
<td>Pharmacy I</td>
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<td>Pharmaceutical Arithmetic</td>
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#### Third Year

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#### Fourth Year

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<tr>
<td>Toxicology</td>
<td>Pharmacy VI or VIIb</td>
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<tr>
<td>Pharmacy V or VIIa</td>
<td>Pharmacy IIIb</td>
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<td>Pharmacy IIIc</td>
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At least 4,036 clock-hours are required to complete this course, 1,023 clock-hours in lectures and recitations and 3,013 clock-hours in laboratory.
DESCRIPTION OF COURSES

MATERIA MEDICA SECTION

PROFESSOR HAMSHER AND ASSISTANTS

PHARMACEUTICAL BOTANY I (Fall)  5 Hrs.

The aim of this course is to acquaint the student with the main groups of plants, their characteristics, economic importance, cell and cell contents. The course is progressive, beginning with the lowest types and ending with the highest. Lectures and recitations, M. W. F., 1:30; 36 hours. Laboratory, T. Th., 48 hours.

PHARMACEUTICAL BOTANY II (Winter)  5 Hrs.

The general anatomy of the parts of the plant, such as root, stem, leaf, flower, fruit and seed, are the subjects of this course. A few drugs from each classification are considered with special reference to the terminology used in the U. S. P. and N. F. Lectures and recitation, M. W. F., 1:30; 36 hours. Laboratory, T. Th., 48 hours.

PHYSIOLOGY (Spring)  5 Hrs.

A brief course in human physiology preparatory to the study of the action of drugs. The digestive, circulatory, respiratory, and nervous systems are the chief subjects considered. This course lays the foundation for the terms used in pharmacognosy and materia medica. Lectures and recitation, M. W. F., 1:30; 36 hours. Laboratory, T. Th., 1:30-3:30; 48 hours.

PHARMACOGNOSY I (Fall)  5 Hrs.

In this course the student is taught how to identify, select, and value drugs microscopically. He learns the official names, habitat, and constituents of each U. S. P. drug. Lectures and recitations, M. W. F., 10:00; 36 hours. Laboratory, T. Th., 7:30-10:00; 48 hours.

PHARMACOGNOSY II (Winter)  5 Hrs.

The study of vegetable drugs is continued. The student learns the official names, habitat, and constituents of each National Formulary drug. Attention is given to preservation, adulteration, and identification of powdered drugs. A liberal use of the compound microscope is required in the course. Lectures and recitations, M. W. F., 10:00; 36 hours. Laboratory, T. Th., 7:30-10:00; 48 hours.
PHARMACOGNOSY III (Spring) 5 Hrs.
This course completes the study of vegetable drugs. The more important non-official drugs receive attention. Lectures and recitations, M. W. F., 10:00; 36 hours. Laboratory, T. Th., 7:30-10:00; 48 hours.

MATERIA MEDICA I (Fall) 5 Hrs.
A course in inorganic Materia Medica. Special attention is given to official names, physiological action and doses. The physical and chemical properties of these drugs receive attention. Lectures and recitations, M. W. F., 7:30; 36 hours. Laboratory, T. Th., 3:30-5:30; 48 hours.

MATERIA MEDICA II (Winter) 5 Hrs.
This is a course in organic Materia Medica (vegetable). The organic drugs are classified according to their action upon the human body. Attention is given to official names, constituents, action, and dosage. Lectures and recitations, Daily, 7:30; 60 hours.

MATERIA MEDICA III (Fall) 2 Hrs.
In this course the U. S. P. and N. F. drugs of animal origin are studied. Attention is given to official names, definitions, source, action, and dosage. This course does not include the serums, antitoxins, and other substances commonly known as biological products. Lectures and recitations, T. Th., 7:30; 24 hours.

TOXICOLOGY (Spring) 3 Hrs.
A study of the principles of poisoning, classification of poisons, and effects of each class. Lectures and recitations, M. W. F., 7:30; 36 hours.

BIOLOGICAL ASSAYING 5 Hrs.
Attention is given to biological assay methods and standardization of the U. S. P. drugs that are most satisfactorily valued by this method. Lectures and recitations, 12 hours. Laboratory, 96 hours.

BACTERIOLOGY (Spring) 5 Hrs.
This course presents the fundamentals of bacteriology as applied to the pharmacist. Training is given in the preparation of culture media, staining, and recognition of pathogenic and non-pathogenic bacteria.

CHEMISTRY SECTION

The student is referred to pages 74 to 76 of this catalogue.
PHARMACY SECTION
PROFESSOR RAABE, MR. CLOSE AND ASSISTANTS

PHARMACEUTICAL TECHNIQUE (Fall) 5 Hrs.
An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations. M. W. F., 7:30; 36 hours. Laboratory, T. Th., 48 hours.

PHARMACY I, GALENICAL (Winter) 5 Hrs.
The chief topics of this course are waters, infusions, decoctions, mucilages, syrups, liniments, mixtures, and other classes of preparations of quite similar nature. Lectures and recitations, M. W. F., 7:30; 36 hours. Laboratory, T. Th., 1:30-4:30; 72 hours.

PHARMACEUTICAL LATIN (Spring) 2 Hrs.
A course covering such essentials of inflection and syntax as to familiarize the student with the etymology and construction of the nomenclature used in the United States Pharmacopoeia and National Formulary and to enable him to intelligently interpret prescriptions. Prerequisite: Two units of high school Latin. Lectures and recitations, T. Th., 7:30; 24 hours.

PHARMACEUTICAL ARITHMETIC (Spring) 3 Hrs.
A course in calculation pertaining to Pharmacy. The student is taught current weights and measures. Metric system, proportion, alligation, specific gravity, specific volume, and comparison of thermometer scales are the chief topics. Special attention is given to the metric system of weights and measures and their relationship with the English system of weights and measures. Lectures and recitations, M. W. F., 7:30; 36 hours.

PHARMACY Ia, GALENICAL (Fall) 5 Hrs.
This course is a continuation of Pharmacy I. Attention is given to such official preparations as emulsions, pills, troches, powders, and similar preparations. Lectures and recitations, M. W. F., 9:00; 36 hours. Laboratory, T. Th., 9:00-12:00; 72 hours.

PHARMACY II
Liquors, elixirs, tinctures, fluid extracts, acids and preparations listed under the classifications mentioned under Pharmacy I and Pharmacy Ia, which require special skill and careful manipulation. Prerequisites: Pharmacy I, Pharmacy Ia, Chemistry 101 and 102. Lectures and recitations, M. W. F., 9:00; 36 hours. Laboratory, T. Th., 9:00-12:00; 72 hours.
PHARMACY IIIA, DISPENSING (Fall)  2 Hrs.
PHARMACY IIIB, DISPENSING (Winter)  2 Hrs.
PHARMACY IIIC, DISPENSING (Spring)  2 Hrs.

Prescriptions, compounding of prescriptions and recipes, incompatibilities, and dispensing are the subjects of this course. These courses are Pharmacy III divided, slightly broadened and manipulated under new laboratory conditions. Five credit hours in Pharmacy III will be accepted as equivalent to Pharmacy IIIA and IIIB. Lectures 12 hours, F., 7:30. Laboratory, M. W., 2:30-4:30; 36 hours.

PHARMACY IV (Spring)  5 Hrs.

A course in drug store business methods. Attention is given to arrangement of fixtures and stock, sources of supplies, distribution to the physician, dentist, veterinarian, the public, to hospitals, to the profession, and to other phases of business essential to successful drug store management. Daily, 9:00.

PHARMACY V (Fall)  5 Hrs.

Manufacture and standardization of inorganic pharmaceutical preparations. Lectures, W., 9:00; 12 hours. Laboratory, M. T. Th. F., 8:30-11:30; 120 hours.

PHARMACY VI (Winter)  5 Hrs.

Manufacture and standardization of tinctures, fluid extracts and extracts. Lectures, M., 9:00; 12 hours. Laboratory, T. W. Th. F., 8:30-11:30; 120 hours.

PHARMACY VIIA (Fall)  3 Hrs.
PHARMACY VIIB (Winter)  3 Hrs.

Manufacture of pharmaceuticals on a commercial basis. Lectures, 12 hours, and laboratory 72 hours. Five credit hours in Pharmacy VII is considered as equivalent to Pharmacy VIIA and VIIb.

PHARMACY VIIIC (Spring)  3 Hrs.

This course is a continuation of Pharmacy VIIA and VIIIB. The student is required to visit the laboratory of at least one reputable pharmaceutical manufacturer and to write a thesis. The subject of the thesis and the manufacturer to be visited, must be approved by the student's faculty adviser and Dean.

PHARMACY VIII (Fall)  5 Hrs.

Attention is given to the inorganic substance of the U. S. P. and N. F. from the standpoint of the pharmacist. Chemistry 101 and 102 are prerequisites. Lectures and recitations, M. W. F., 9:00, 36 hours. Laboratory, T. Th., 9:00-12; 72 hours.
PHARMACY IX (Spring) 5 Hrs.

A study in the organic synthetic substances of the U. S. P. and N. F. General Organic Chemistry 101 is a prerequisite. Lectures and recitations, M. W. F., 9:00; 36 hours. Laboratory, T. Th., 9:00-12:00, 72 hours.

PHARMACY X (Spring) 5 Hrs.

A technical survey of the latest U. S. P. and N. F. Prerequisites: General Chemistry, Quantitative Analysis, Organic Chemistry, Pharmacognosy I, II, and III, Pharmacy I, Ia, and II. Lectures and discussions, 60 hours.

PHARMACY XI (Spring) 5 Hrs.

This course includes all official pharmaceutical preparations not included in Pharmacy I, Ia, and II. Prerequisites: Chemistry 101, 102, 103, Pharmacy I. Lectures and recitations, M. W. F., 9:00; 36 hours. Laboratory, T. Th., 9:00-12:00; 72 hours.
SENIOR CLASS OFFICERS, 1929

Hugh Cramer, President
Albina Resetar, Vice President
Robert Wilson, Valedictorian

Beatrice Powell, Secretary
M. L. Monnott, Treasurer

SENIOR HONOR STUDENTS, 1929

COLLEGE OF LIBERAL ARTS

Lautenbach, H. W.
Harvey, Louise

Melroy, J. Don
Dutton, Charles O.

COLLEGE OF EDUCATION

Graff, Orin
Kiblinger, Amba

Shade, Audrey
Gilliland, Dale

COLLEGE OF ENGINEERING

Hensel, Waldo
Thurber, Arnold

Light, Eugene
Wooley, Clair

COLLEGE OF LAW

Fuller, Robert
Crowe, David
Pfalzgraf, F. D.

Wilson, Harold
Jacobs, M. L.

COLLEGE OF PHARMACY

Cistone, Joseph
Cramer, Hugh

Shigley, H. H.
Grayson, Thomas
Degrees Conferred in 1929

HONORARY DEGREES

Samuel Allen Hoskins, Columbus, Ohio, Doctor of Laws
Robert Hamric Huff, Barboursville, W. Va., Doctor of Laws
Wade Hampton Cooper, Washington, D. C., Doctor of Laws
Oliver Maximillian Urbain, Columbus, Ohio, Doctor of Science
George Drury Smith, Richmond, Kentucky, Doctor of Science
Clarence Herbert LaRue, Findlay, Ohio, Doctor of Divinity
Emil Baumann, Dayton, Ohio, Doctor of Divinity

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

Aberle, Genevieve
Andrews, C. Garry
Barnes, Florence
Black, Corvin V.
Church, Ruth
Clark, Leola
Cohen, Dena
Cotner, Arthur
Cripps, Ruth
Dutton, Charles O.
Ewing, Lillo R.
Fogle, Nelle E.
Freeman, Mildred
Fulford, Robert C.
Geist, Donald E.
Golden, Edward
Harvey, Louise
Herron, Mildred
Huddle, Grace
Hughes, George Glen
Johnson, Harry
Klingler, Donna
LaBorde, William B.
Lautenbach, Henry W.
McCleary, Ray L.
McCurdy, Trola
McElroy, Cleola
Melroy, J. Don
Miser, J. Kermit
Moore, Georgia
Moorman, Dorothy J.
Navaroli, August D.
Rundell, Ethel
Powell, Beatrice
Sherrick, Marian F.
Shook, Eldon C.
Smith, LuVerne
Smith, Margaret E.
Spreen, Ida Marie
Steininger, Cleo L.
Swartz, Eunice M.
Truex, Pauline
Truex, Romaine
Vitorl, Anthony
Webb, Helen M.
Wilson, Robert Pifer
Young, Marie J.
COLLEGE OF EDUCATION

BACHELOR OF SCIENCE IN EDUCATION

Cady, Lucy B.
Chart, Frank Duane
Dimler, Clark L.
Elliott, Ethel
Ellis, Catherine
Fallow, Ulva G.
Gilliland, Dale V.
Graff, Orin
Harmon, John Milton
Hawk, Alberta
Jameson, Robert
Kibbling, Amba
Linker, Eugene
Martin, Chloe
Moore, L. Gertrude
Neville, Margery M.
Nussbaum, Howard
Resetar, Albina
Resetar, Emma
Roszman, Foster
Shade, Audrey
Simmons, Edna
Stepleton, Cerelda E.
Williams, Fred J.

GRADUATE IN PEDAGOGY

Bailey, Hazel Sleek
Blanke, Orrin
Bodkin, Marie
Boroff, Flo
Boyer, Lois L.
Brown, Bertha
Burns, Leonidas
Carlson, Agnes
Carnes, Doris
Charlton, Anna Christine
Clark, Ellen
Conn, Ruth
Conrad, Kathryn Pepple
Cotner, Mildred
Criblez, Lucille
Cummins, Ada Pauline
Decker, Grace
Detrick, Mary Celina
Diegel, Dorothy
Diegel, Lois
Dubbs, Mary
Fialla, Helen
Fletcher, Deva
Fisher, Louise
Fisher, Mildred
Francis, Louis H.
Frank, Olive
Frazier, Mabel
Fryinger, Hazel
McAlpin, Margaret
McCleary, Ralph
McCleary, Ruth Bell
McLaughlin, Io
Marsh, Llewena
Miller, Ruth
Moore, Mabel
Morgenroth, Eleanor
Morlan, Anna M.
Morrison, Mabel
Olson, Frances
Owen, Arleen
Newell, Edna Yentzer
Pfaadt, Howard
Reinke, Selma
Rogers, Gladys
Sanderson, Ruby
Sayers, Emerald
Schramm, Emma
Shondel, Lena L.
Sielschott, Mildred
Slattery, Ruth
Slater, Russel
Smith, Delpha
Snavely, Mabel
Sparklin, Elinor
Spiess, Geraldine
Springer, Lois Ramga
Stahler, Worth
George, Eva
Hammitt, Audrey
Hawk, Mary
Houser, LaVon Monroe
Kerr, Mildred
King, Vaun
Kishler, Faye
Krohmer, Hester
Landfair, Ruth M.
Latham, Thelma
Loffer, Frances
Lowmiller, Helen

Tapscott, Frances
Thomas, Gladys
Tullis, Mary
Varner, Hope
Wade, Elmer
Warrington, Margery
Welshimer, Evelyn
Whitaker, Elizabeth Grim
Wilcox, Genevieve
Winegardner, Winona
Yentzer, Ethel

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Burgbacher, John J.
Sent, Norman D.
Patterson, Edwin S.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Craig, Russell F.
Grimm, Tolbert L.
Herendeen, James, Jr.
Kohli, Chas. S.
Light, Eugene P.
McCaughey, C. W.
Marmon, Kenneth

Scanlin, Ralph H.
Seaborn, Joseph
Skerrett, Ricardo
Sloan, Albert C.
Stoll, Alfred P.
Thurber, Arnold
VanReekum, Vernon

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Brooks, Paul J.
Clayton, John T.
Garn, Harry R.
Gummo, Ralph L.
Hensel, W. G.
Hill, Leslie W.
Lash, Ross A.

Poole, George D.
Rice, Robert F.
Ruehrmund, Lloyd
Rundell, Theodore
Schifino, Anthony
Snedeker, M. L.
Wooley, Clair

Elder, Maurice E.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Emmons, C. Dale
Griffith, Walter E.
Keener, Howard K.
Krengel, Richard E.
McIvor, Don H.
Merkel, Charles O.

Parcell, Paul
Pope, Winslow
Stoner, Charles W.
Watson, R. A.
Westfall, John
COLLEGE OF LAW

BACHELOR OF LAWS

Adelman, Sol
Barone, A. Samuel
Beck, Robert E.
Brewer, James D.
Burris, Gordon
Celebreeze, August F.
Clark, Lyman P.
Collett, Charles H.
Cookston, Raymond E.
Cory, Charles H.
Crowe, David E.
DeVorkin, Morris D.
Evans, Stanley M.
Fertman, Isadore
Fischer, Clarence G.
Freedman, Louis E.
Fuller, Robert E.
Gabalac, Stephen
Germano, Salvator
Handelman, Harry H.
Harrigan, Ralph E.
Horchig, Julius
Himebaugh, Willis E.
Jacobs, Morris L.
Kucera, Leo J.
Miller, Rudy R.
Pfalzgraf, F. D.
Reiser, Luther M.
Rich, Frank
Shapiro, Carl
Sivers, Harold Joseph
Steele, Raymond
Swanson, Milton H.
Terwilliger, Howard E.
Walpole, Edward L.
Wilson, Harold M.
Wood, Russel G.
Zurz, Vincent

COLLEGE OF PHARMACY

BACHELOR OF SCIENCE IN PHARMACY

Conrade, Frederick
Haury, Edna C.

PHARMACEUTICAL CHEMIST

Anderson, Wilbur C.
Barnes, Kenneth W.
Bauer, Elmer George
Bloom, Isadore
Brown, Alma
Brubach, Tibertius
Capestaney, Max, Jr.
Ceasar, Edward
Chaky, Francis G.
Cistone, Joseph A.
Cramer, Hugh L.
Cratty, Guy G.
Durliat, Cloyce M.
Erbaugh, William A.
Fitzpatrick, William E.
Fleisher, Herman R.
Flocken, Virgil L.
Keplinger, Karl
Krieger, Ben
Lorentz, Everett R.
Lowe, Lester H.
Maldonado, Rigoberto
Masterson, Ray L.
Miller, Delmo C.
Molitoris, Nicholas
Orr, Rene P.
Porus, Henry
Rainier, George W.
Rawers, Barthold
Rice, Herbert L.
Richardson, J. S.
Robbins, Hyman L.
Rowland, Wallace
Flowers, Clarence  Samolar, Sidney O.
Frye, Carl         Sanfillippo, Thomas
Grayson, Thomas    Shellinski, Max
Haight, Gordon E.  Shigley, Henry H.
Hoffman, Frederick Shipan, Joseph
Holbein, Curtis A. Shoemaker, Paul J.
Hroneck, Joseph J. Sosa, Jacinto
Jackson, Earl W.   Sugranes, Jose G.
Johnson, Paul G.    Stallkamp, T. H.
Jones, Archie R.    Tippin, Charles
Karlinsky, Michael Trageser, Edward
Kates, David        West, Harmon
Keenan, Willard     Yaeger, Andrew

COLLEGE OF MUSIC

GRADUATE IN PIANO

Calvert, Ethel Miller  Irick, Betty

SCHOOL OF EXPRESSION

BACHELOR OF ORATORY

Botkin, Aldora        Huntsman, Cecil C.
Charlton, Iantha Naomi McVey, Pauline
Hatfield, Margaret    Todd, Martha
Howison, Bernice

GRADUATE IN EXPRESSION

Craig, Odetta

SCHOOL OF COMMERCE

GRADUATE IN COMMERCE

Forry, Eloise         Sloan, Isabel
Fry, Margaret L.      Smith, Neil
Jones, Jeanette       Wilder, Mary
Newland, Gerald L.

SCHOOL OF FINE ARTS

GRADUATE IN FINE ARTS

Schmitz, Lois E.      Stambaugh, Alma
## College of Liberal Arts

<table>
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<tr>
<th>Name</th>
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<td>Plymouth, O.</td>
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Guyton, Mary ............ Alger, O.
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Harrod, Paul ............. Ada, O.
Harvey, Louise .......... Ada, O.
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Hawkins, Ethel .......... Lima, O.
Herring, Findley ........ Ada, O.
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Hilty, Luella ............ Ada, O.
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Horst, William L. ....... Harrod, O.
Hostetter, Glaris ......... Ottawa, O.
Hubbell, Mary C. ........ Ada, O.
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Huffman, Janet .......... Ada, O.
Hughes, George Glen .. Ada, O.
Hughes, Ruth Dailey .... Ada, O.
Hupp, Raymond .......... Lima, O.
Huston, Evelyn ........... Alger, O.
Huston, Victor S. ....... Alger, O.
Irey, Rosamond .......... Ada, O.
Jacoby, Matthew ....... Pittsfield, Mass.
Jameson, Robert ......... Ada, O.
Jaycox, Hartley E. ... McKeesport Pa.
Jeffries, Edna ....... Mendon, O.
Jenkins, M. B. ....... LeRaysville, Pa.
Johnson, Curtis E. .... Detroit, Mich.
Judkins, Lois Jean ....... Ada, O.
Kauffman, Ellison S. ... Columbus, O.
Keith, Lucille .......... Ada, O.
Kennedy, Irene .......... Ada, O.
Kennedy, Ralph .......... Ada, O.
Kleinfeld, John H. ... Cleveland, O.
Klingler, Donna ......... Ada, O.
Kroll, Ruth .............. Bryan, O.
LaBorde, William B. ... Canton, O.
Lady, J. E. .............. Ridgeway, O.
Laughrey, Coral ....... Kenton, O.
Lautenbach, H. W. ... Forestville, Conn.
Leonard, Vance .......... Ada, O.
Liggett, Robert M. .... Indiana, Pa.
Long, E. E. ............. Ada, O.
Long, Richard E. ....... Ada, O.
Long, Russell .......... Ada, O.
Lowman, Eunice ......... Ada, O.
McAlpin, Robert ....... Ada, O.
McCleary, Raymond L. ... Ada, O.
McCleary, Rush .......... Ada, O.
McCurdy, Flora .......... Ada, O.
McCurdy, Trola .......... Ada, O.
McElroy, Anna Cleola .... Ada, O.
McElroy, George .......... Ada, O.
McElroy, Lorene .......... Ada, O.
McHugh, James H. ..... Smithfield, O.
Martin, Betty Mae ....... Stanford, Ky.
Martin, Milton E. ....... Andover, O.
Mathews, Elizabeth .... Mansfield, O.
Melroy, J. Don .......... Ada, O.
Merhab, Louie ........ Columbus Grove, O.
Merlino, Benjamin B. ... Garfield, N. J.
Mertz, Forest .......... Ada, O.
Mikesell, Ralph H. ... New Paris, O.
Miller, Hubert C. ....... Ada, O.
Miller, William J. ....... Cairo, O.
Millette, Lola ........ Wapakoneta, O.
Miser, J. Kermit ....... Amsterdam, O.
Mitchell, Hamer ....... Bellefontaine, O.
Moore, Charles B. ....... Ada, O.
Moore, Georgia .......... Ada, O.
Moorman, Dorothy J. ... Ada, O.
Mort, R. B. G. ....... Niagara Falls, N. Y.
Mowen, Aleen K. ....... Lima, O.
Myers, Robert F. ....... Cleveland, O.
Navaroli, August ... McKeesport, Pa.
Neighbarger, Roy ....... Centerburg, O.
Peterson, Charles .......... Ada, O.
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Pilkinson, C. Dwight .... Gambier, O.
Poling, Ruth .......... Ada, O.
Povenmire, Dorothy ..... Ada, O.
Powell, Beatrice ........ Ada, O.
Price, Charles ........ Kenton, O.
Fridley, Joseph L. ... Van Wert, O.
Pugh, E. G. .............. Fostoria, O.
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Rau, Lawrence ....... Kittanning, Pa.
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Reed, Anne Eileen ...... Ada, O.
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**Arts-Law**

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Pre-Law

Adkins, Raymond Harlin — Lima, O.
Aronson, Norman S. — Circleville, O.
Blackford, James M. — Martins Ferry, O.
Brickman, Arthur J. — McComb, O.
Brofman, William — Cleveland, O.
Carey, Thomas J. — Girard, O.
Carpenter, Robert — Attica, O.
Clark, Edward — Fostoria, O.
Corbett, Chester — Magnolia, O.
Crullenre, John — Belleaire, O.
Deare, Manfull — Sharon, Pa.
Detrick, Celina — Lima, O.
Downing, Robert M. — Lima, O.
Eisenberg, Sidney — Cleveland, O.
Ettinger, E. D. — Cleveland, O.
Fleckner, Oscar L. N. — Baltimore, O.
Gerhardt, George E. — Circleville, O.
Hartzell, Daniel M. — Greenville, O.
Howells, Robert — Warren, O.
Iwinsky, Chester A. — Toledo, O.
Jacobson, Harry M. — Cleveland Heights, O.
Kaylor, Hugh — Detroit, Mich.
Kemp, Lewis J. — Magnolia, O.
Lease, Charles F. — Kenton, O.
McClain, B. Jr. — Belleaire, O.
McIntosh, Robert J. Jr. — Toledo, O.
Marsh, John F. — LaFayette, O.
Masters, Joseph M. — Hibbetts, O.
Morrow, William J. — Toronto, O.
Mushaw, Delmas — Alger, O.
Parish, John A. — Marion, O.
Petro, William — Cleveland, O.
Ray, Edwin — Ada, O.
Reiser, Lawrence D. — Napoleon, O.
Roberts, Charles — Youngstown, O.
Roof, James — Magnolia, O.
Schafer, Glendon E. — Medina, O.
Spitler, Emmett — McComb, O.
Stroup, Morris — Cleveland, O.
Suchland, Everett — St. Marys, O.
Taylor, Clyde — VanWert, O.
Thompson, Lowell G. — Minford, O.
Ublonsky, Morris R. — Cleveland, O.
Williams, Wayne H. — Elyria, O.
Witten, Walter — Ohio City, O.
Wray, Lawrence E. — Tippecanoe City, O.
Wysocki, Clifford E. — Toledo, O.

Pre-Medic

Barone, Andy — Jamestown, N. Y.
Baumgardner, Myron — Dalton, O.
Brace, Russell — Randolph, N. Y.
Budin, David A. — Cleveland Heights, O.
Carmosino, M. J. — Cleveland, O.
Castelli, Peter J. — Bridgeville, Pa.
Corso, S. Hubert — Cleveland Heights, O.
Curry, Augustus L. — Canton, O.
Flood, James M. — Sayre, Pa.
Friedman, David L. — Toledo, O.
Geist, Donald E. — Malinta, O.
Groth, Charley E. — Arcadia, O.
Hall, Marcus — Lima, O.
Harnar, Glendon — Lima, O.
Lavine, Elmont — Canton, O.
Lowry, Calvin — Raynhan, N. C.
MacDonald, Earl C. — Cleveland, O.
Mannhardt, Herman — Custer, O.
Martino, Anthony J. — Cleveland, O.
Miller, Daniel H. — Niles, O.
Schwartz, Sam — Cleveland, O.
Sheldon, Don L. — Fostoria, O.
Sweeney, James L. — Amsterdam, O.
Vitori, Anthony — Blythedale, Pa.
White, Charles — Harrod, O.
Wiles, Verland — Huron, O.
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Doak, Franklin _______ Cleveland, O.
Gallagher, John J. _______ Ironton, O.
Genevriere, Maurice _______ Bellaire, O.
Katz, Abe _____________ Cleveland, O.
Lucacevlik, Edward _______ Midland, Pa.

Medoff, Lawrence _______ Canton, O.
Simmons, Kermit D._______ Amsterdam, O.
Vaughn, George P. _______ Cleveland, O.
Welsh, Neal _____________ VanWert, O.

Pre-Commerce

Ash, Robert J. __________ Versailles, O.
Durbin, Harry _____________ Lima, O.

Hochman, Sol G. _______ Cleveland, O.

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Four-Year Course

Adams, Golda ____________ Lima, O.
Adrian, Lucille ___________ Lorain, O.
Badertscher, Mary _______ Bluffton, O.
Bailey, Winona __________ Wapakoneta, O.
Baker, Verda _____________ Patterson, O.
Battels, Harry ____________ Ada, O.
Beam, Lillian _____________ Ada, O.
Beamer, Delora __________ Arcadia, O.
Behrns, Frederick _______ Botkins, O.
Belston, Ethel _____________ Lima, O.
Benaglia, Amy ___________ Greenock, Pa.
Binkley, Walter __________ Ada, O.
Blanke, Lester __________ New Bremen, O.
Bower, Velma _____________ Lexington, O.
Bowers, Edith ____________ Ada, O.
Bowsher, Audrey __________ Lima, O.
Bozony, Mary _____________ Minjo Junction, O.
Branstetter, Eugene _______ Niles, Mich.
Brewer, Lois _____________ Ada, O.
Bricker, Paul _____________ Mt. Cory, O.
Brooks, Casper ___________ Patterson, O.
Burchfield, Marie _______ McClure, O.
Burgoon, Ethel ____________ Richwood, O.
Cady, Lucy _______________ Bellepre, O.
Campbell, Thora __________ Continental, O.
Cayton, Jasmine ________ Nelsonville, O.
Cayton, Mary _____________ Nelsonville, O.
Chalfin, Lloyd ___________ McGuffey, O.

Chandler, Ruth __________ Richwood, O.
Chart, Frank _____________ Addison, N. Y.
Childs, Harold __________ Ada, O.
Clark, Jesse _____________ Agosta, O.
Clinger, Inez _____________ Forest, O.
Conway, Mary _____________ Cleveland, O.
Cook, Opal _______________ Jenera, O.
Cox, Beulah _____________ Conover, O.
Cribbley, Lucille _______ Bluffton, O.
Cummins, Audrey __________ Lakeview, O.
Cummins, Paul ___________ Kenton, O.
Davis, Dorothy __________ LaFayette, O.
Davis, Jack ______________ Columbus, O.
Davis, Lawrence __________ Convoy, O.
Davis, May _______________ Mansfield, O.
Davis, Nelle ______________ Scott, O.
DeGregori, Rose Ruth ________

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Dimler, Clark ____________ Bryan, O.
DuBois, Russell ________ Continental, O.
Duncan, Virginia ________ Findlay, O.
Easterday, Eva ___________ Marengo, O.
Eaton, Darwin ___________ Grover Hill, O.
Eberhart, Anna _________ Williamstown, O.
Eddy, Mary _______________ Marysville, O.
Eley, Mary _________________ Ada, O.
Elliot, Ethel ______________ Ada, O.
Elliott, Hugh _____________ Homestead, Pa.
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Rogers, Everett Clarence ______
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Rogers, Gladys ____ Union City, Ind.
Rogge, Howard ____ Liberty Center, O.
Roszman, Foster D. _____ Morral, O.
Ruble, Elizabeth _____ Lancaster, O.
Rudolph, Harold _______ Forest, O.
Rumbaugh, Margaret E. ___ Alger, O.
Rupp, Josephine __________ Delta, O.
Russell A. P. ________ Raymond, O.
Sandrock, Howard _______ Belmont, O.
Schafer, Wilda __________ Botkins, O.
Schrider, Sarah Bernice __________ Grayton, O.
___________________________ Scothorn, John P. ______ Bluffton, O.
Shadley, Frances __________ Ada, O.
Shade, Audrey ___________ Lima, O.
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Shell, Charles ____________ Willshire, O.
Sherman, Helen H. _________ Elyria, O.
Shiek, Garnet _____________ Haviland, O.
Shoup, Naomi ____________ Richwood, O.
Sigler, Elizabeth __________ Harpster, O.
Simmons, Edna L. _________ Ada, O.
Slater, Russell R. __________ Lima, O.
Smith, Helen ______________ Lima, O.
Spitler, Emmett _______ McComb, O.
Stepleton, Cerelda E. ______ Lima, O.
Stonehill, Dawn __________ Williamstown, O.
Strawser, Dorothy _________ Marion, O.

Strine, Marie _____________ Waldo, O.
Suber, Leola C. ____________ Deshler, O.
Suber, Lorta ______________ Leipsic, O.
Tapscott, Frances _________ Lima, O.
Tidd, Helen ________ Belle Center, O.
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Tolford, Margery _________ Lima, O.
Troup, Ruby ______________ Bucyrus, O.
Tudor, Dorothy ____________ Lima, O.
Uncapher, Isabel F. _______ Marion, O.
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VanAtta, Ernest A. _________ Ada, O.
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Warren, A. Catherine _______ Belleaire, O.
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Wiggins, M. Paul. New Richmond, O.
Wkle, Prudence Eliz. _______ Dayton, O.
Williams, Fred J. ______ Rawson, O.
Williams, Mary _____ W. Liberty, O.
Willis, Allen T. _________ E. Liverpool, O.
Windle, J. H. _____________ Belmore, O.
Young, Dee _____________ Lima, O.
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Young, Wanita ___________ Ansonia, O.
Young, William K. _______ Belle Center, O.
Younkman, Earl H. ___LaFayette, O.

Special Students in Education

Burch, Nora May ___________ Nellie, O.
Cummins, Pauline _____Bellefontaine, O.
Daniels, Maude ____________ Kenton, O.
Fisher, Mildred __________ Lima, O.
Garrison, Millie ________ New Castle, O.
Gigandet, Esther ________ Sidney, O.
Honser, Edith ____________ Germantown, O.
Hughes, Mary Catherine ___________ Columbus, Grove, O.
McCurdy, Flora ___________ Ashley, O.
Reed, Allen E. __________ Mt. Vernon, O.
Steiner, Stanton W. ____ Bluffton, O.
Stockstill, Lotus _______ Maplewood, O.
Thomas, Emma __________ Lima, O.
Wright, Elsie V. __________ Sidney, O.

Two-Year Course

Amanda, Mary Alice _______ Galion, O.
Andrews, Mabel ________ Celina, O.
Arn, Golda Avonelle _______ Kenton, O.
Ault, Evelyn _____________ Willshire, O.
Austin, Evelyn __________ Willard, O.
Badertscher, Harvey ____ Bluffton, O.
Bailey, Corwin __________ Raymond, O.
Bailey, Hazel Sleck __________ Portsmouth, O.
Baker, Alma ___________ Radnor, O.
Baldwin, Lelah _______ Cardington, O.
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Sayers, Emerald — New Weston, O.
Schramm, Emma — Van Wert, O.
Sellers, James — Wapakoneta, O.
Shondel, Lena — Ottawa, O.
Showalter, Edith — Convoy, O.
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Stanley, Dorothy — Woodstock, O.
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Sutton, LaVon — Grover Hill, O.
Taylor, Elizabeth — Lorain, O.
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Teeters, Nelle — Celina, O.
Tremain, Marguerite — Ada, O.
Troyer, Mazie — Continental, O.
Tullis, Mary — Lima, O.
Varner, Hope — Continental, O.
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Wagner, Helen — Ada, O.
Walker, Hazel — Marion, O.
Walls, Edna — Fayette, O.
Warrington, Margery — Salem, O.
Watkins, Gladys — Ada, O.
Wehe, Linna — Ada, O.
Welshimer, Evelyn — St. Marys, O.
Whitaker, Elizabeth — Belle Center, O.
Widney, Marcele — Dunkirk, O.
Wiethoff, Clara — New Knoxville, O.
Wilcox, Genevieve — Palestine, O.
Williams, Faye — Versailles, O.
Wilson, Hazel — Bucyrus, O.
Winegardner, Winona — Waynesfield, O.
Wingett, Grace — Marion, O.
Worch, Vivian — Arcanum, O.
Worrell, Marie — Harrod, O.
Yentzer, Ethel — Wharton, O.
Zickafoose, Maude — Ada, O.
Ziegler, Wilma — Mendon, O.

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Noe, Glen — Findlay, O.
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Wagner, George E. — Utica, O.
Young, Donald D. — New Castle, Pa.
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Cretors, Ellsworth ............ St. Paris, O.
Deniston, George L. ............ Lima, O.
Dougherty, Donald ............ Dallastown, Pa.
Dunlap, Francis H. ............ Clark's Summit, Pa.
Ehner, Otto Leo ............ Lima, O.
Ellis, Edison ............ Alger, O.
Emerick, Marcellus ............ Celina, O.
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Fessler, Warren ............ Wapakoneta, O.
Glass, Wilbur ............ Lima, O.
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Grimm, Tolbert L. ............ Red Lion, Pa.
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Heffner, George A. ............ Lima, O.
Henning, Bertsell F. ............ Weston, O.
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Highland, Roland Mechanicsburg, O.
Hoffman, Charles F. ............ Lima, O.
Holtsapple, Arthur R. ............ Rushsylvania, O.
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Jacobs, Kenneth ............ Continental, O.
Jaffari, M. A. ............ Teheran, Persia
Johnson, Merle ............ Green Camp, O.
Jones, Donald ............ Salamanca, N. Y.
Jones, John Walter ............ Kansas, O.
Kaiser, Harold ............ Kenton, O.
Kimball, Harold B. ............ Clark's Green, Pa.
Kohl, Charles B. ............ Lima, O.
Kolb, John ............ Pardoe, Pa.
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Life, Harry L. ............ Elyria, O.
Light, Eugene P. ............ Lima, O.
MacCallum, James D. ............ Lima, O.
Mccaughey, Charles W. ............ Galena, O.
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Melnkerson, Nils ............ Cleveland, O.
Mendez, J. Hector .......... Santurce, P. R.
Mendez, Louis C. .......... Santurce, P. R.
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Raison, Harry ............ Portsmouth, O.
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Skidmore, Claude F. ............ West Mansfield, O.
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Stein, Robert Lee ............ Wheeling, V. Va.
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Vineke, Elvin F. ............ Lima, O.
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Weber, Gustave A. ............ Westbury, N. Y.
Weir, Donald A. ............ Ashtabula, O.
Yount, Dan ............ Ada, O.
Allen, Perry D. Richwood, O. 
Allensworth, Charles W. 

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Bondley, Ralph J. Marion, O. 
Burdick, Scott 

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Chandler, Robert C. 

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Dyer, Dwain D. Caldwell, O. 
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Edgar, Roland A. Elyria, O. 
Fischietto, Roxey Cleveland, O. 
Fowler, Dale M. Lima, O. 

________________________ Garn, Harry R. Helena, O. 
George, Olin Marion, O. 
Gideon, Wayne Payne, O. 
Goodman, Louis M. 

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Hawes, Orville Quincy, O. 
Hensel, W. G. Navarre, O. 
Hersberger, Charles Broadway, O. 
Hill, Leslie W. Avon Lake, O. 
Hocher, Harold B. Palmyra, Pa. 
Jackson, Raymond G. LeRay, O. 
Johnson, James R. Kirkersville, O. 
Kerst, Ralph R. Anna, O. 
Lash, R. A. Navarre, O. 
Leatherman, Henry A. Wadsworth, O. 
Leinard, Frank Paulding, O. 

Lisk, Milford H. Linesville, Pa. 
Luikart, Paul D. Sardis, O. 
Maddox, Horace L. Richwood, O. 
Mertz, Robert D. Lima, O. 
Messenger, Bill Ada, O. 
Michel, Frederick John Springville, N. Y. 

Millward, David D. Leckrone, Pa. 
Mustard, Jack Ada, O. 
Nico, George W. Lima, O. 
Nazario, Arturo Mayaguez, P. R. 
Pankow, Edwin East Otto, N. Y. 
Pepple, Robert Waynefield, O. 
Poole, George D. Dayton, O. 
Pringle, Donald Findlay, O. 
Pryor, Carl G. Caldwell, O. 
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Rice, Robert F. New Philadelphia, O. 

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Ross, George Wilkinsburg, Pa. 
Ruehrmund, Lloyd G. Marion, O. 
Rundell, Theodore Ada, O. 
Schiifino, Anthony 

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Shoop, Joseph Findlay, O. 
Skerrett, Hector Mayaguez, P. R. 
Smith, Albert J. F. Lima, O. 
Smyer, Loren Barberton, O. 
Snedeker, M. L. Bannock, O. 
Stewart, James M. Warsaw, O. 
Summerfield, Victor E. 

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Wooley, Clair E. Liberty, O. 
Wyandt, Burt Van Wert, O. 
Williams, Calvin Greenville, O. 
Yingling, Homer Lawsonham, Pa.
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Watson, R. A. _____________ Lima, O.
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Yee, On Koch __________ Canton, China

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__________ Jamestown, N. Y.
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Harrison, Ralph E. Lakewood, O.  
Hayes, Robert J. Springfield, O.  
Heath, William B. Lakewood, O.  
Herchig, Julius Dayton, O.  
Himebaugh, Willis E. Hartville, O.  
Holbein, Herbert Zanesville, O.  
Horton, H. H. Columbus, O.  
Huecker, Martha C. Lima, O.  
Hunsinger, Paul Fremont, O.  
Iddings, J. W. St. Clairsville, O.  
Jacobs, Morris L. Columbus, O.  
Johnson, Virgil E. Lima, O.  
Jones, Robert F. Cairo, O.  
Kelso, John P. New Lexington, O.  
Kennedy, Neil Chicago, Ill.  
Kramer, Manuel Canton, O.  
Kucera, Leo J. Bedford, O.  
Lappin, Leo L. Turtle Creek, Pa.  
Lawrence, Alfred E. Ravenna, O.  
Layton, Bernice Toledo, O.  
Leuthold, Ruth Bucyrus, O.  
Levy, Maurice M. Toledo, O.  
Levine, Max Dayton, O.  
Lipski, Harry E. Toledo, O.  
McBride, Thomas J. Youngstown, O.  
McElroy, Mozelle Ada, O.  
McCoy, Clarence C. Ada, O.  
McNamara, George Marion, O.  
Miller, John M. Lima, O.  
Miller, Rudy R. Cleveland, O.  
Modarelli, Joseph A. Jr. Girard, O.  
Monnett, M. L. Ford City, Pa.  
Moore, W. E. Jr. Woodsfield, O.  
Murphy, John L. Lima, O.  
Passen, William Elyria, O.  
Peters, James W. Youngstown, O.  
Pfalzgraf, F. L. Clarington, O.  
Pratt, Arvilia B. Shaker Heights, O.  
Prince, Charles A. Follansbee W. Va.  
Reiser, Luther M. Napoleon, O.  
Rice, Raymond New Philadelphia, O.  
Rich, Frank Lakewood, O.  
Robertson, Donald Warren, O.  
Ross, Michael Canton, O.  
Rossetti, John Canton, O.  
Shapiro, Robert A. Dayton, O.  
Shifman, Carl Canton, O.  
Shurman, Christian J. Lakewood, O.  
Silbaugh, Verne R. Lancaster, O.  
Sivers, Joseph Toledo, O.  
Steele, Raymond Martins Ferry, O.  
Stein, David Cleveland, O.  
Stickles, Edward Pittsfield, Mass.  
Summers, Samuel L. Ravenna, O.  
Swan, Charles H. Lakewood, O.  
Swanson, Milton H. Toledo, O.  
Taylor, George S. Youngstown, O.  
Terwilliger, Howard E. Wapakoneta, O.  
Underwood, Charles H. Caledonia, O.  
Van Dine, Okey Jamestown, O.  
Walpole, Edward L. Toledo, O.  
Washko, W. A. Cleveland, O.  
Welsh, Edward F. Jr. Youngstown, O.  
Wilson, Harold M. Toledo, O.  
Wilson, Robert P. Ada, O.  
Wines, John R. Akron, O.  
Wood, Russell G. Cuyahoga Falls, O.  
Young, Clair A. Caldwell, O.  
Zurz, Vincent Akron, O.
Special Law

Kyman, Marvin E. __ Cleveland, O.
Levitt, Manuel ________ Cleveland, O.
Reese, Walter P. __________ Lima, O.
Russell, Bernadette ______ Kenton, O.
Schreiber, David S. __________ Cleveland, O.
Vaughn, Eldred J. _______ Akron, O.

College of Pharmacy

Anderson, Wilbur C. __ Bluffton, O.
Asman, Luther W. _______ Marysville, O.
Atkins, Lester ________ Cleveland, O.
Barnes, Kenneth W. ____________ Youngstown, O.
Barton, Raymond E. ______ Cridersville, O.
Bauer, Elmer G. __________ Akron, O.
Beales, W. A. __________ Gettysburg, O.
Berard, A. D. _______ Youngstown, O.
Berman, Larry ________ Cleveland, O.
Bianchi, Victor __________ Galion, O.
Erbaugh, William A. ____________ Yellow Springs, Ohio
Bnau, Clarence R. ____________ Upper Sandusky, O.
Beem, Isadore _________ E. Cleveland, O.
Breese, William A. _______ Mt. Gilead, O.
Brown, Alma ___________ Alger, O.
Brunner, Tibertius ________ Lewisville, O.
Bryans, John F. __________ Cleveland, O.
Butch, Felix P. ___________ Leetonia, O.
Canzenette, Peter _________ Warren, O.
Capastani, Max ________ Mayaguez, P. R.
N Ceasar, Edward ________ Cleveland, O.
Chaky, Francis E. _________ Solon, O.
Charles, Joseph W. _______ Hillsboro, O.
Cieslak, Walter E. ___________ Cleveland, O.
Cistone, Joe A. ___________ E. Cleveland, O.
Geb, Frank __________ Cleveland, O.
Grayson, Thomas B. ____________ Steubenville, O.
Coco, Frank ___________ Cleveland, O.
Comella, Joseph ________ Shaker Heights, O.
Conrade, Frederick ______ Zanesville, O.
Cook, Charles B. ______ Nelsonville, O.
Craft, Maxwell ___________ Weston, O.
Cramer, Bernard _______ Cleveland, O.
Cramer, Hugh L. ____________ Tippecanoe City, O.

Cratty, Guy G. __________ Lima, O.
Dawson, Herbert Dale __ Kenmore, O.
Davis, A. Donovan ________ Lima, O.
Deisher, Richard _______ Lakewood, O.
Detwiler, Paul Leon _______ Kenton, O.
Domizi, David ___________ Cleveland, O.
Donnelly, Ross C. _______ Detroit, Mich.
Downs, Tommy J. ___________ Bryan, O.
Durliat, Cloyce M. _______ Weston, O.
Dworken, Leo M. ___________ Cleveland, O.
Elsasser, Glen R. __________ Bryan, O.
Erbau, William A. __________ Yellow Springs, Ohio
Erick, Harry F. ________ New Haven, Ind.
Falzone, Peter J. __________ Cleveland, O.
Farley, Edwin A. ____________ E. Cleveland, O.
Faroga, Leon ___________ Warren, O.
Felty, John D. ___________ Columbus, O.
Fighter, Dean ___________ Mansfield, O.
Finer, Harry P. ___________ Cleveland, O.
Fish, Myron E. ___________ Youngstown, O.
Fithen, Ernest L. _____________ Ada, O.
Fitzpatrick, William E. ____________ Wapakoneta, O.
Fleisher, Herman R. ___________ Cleveland, O.
Flocken, Virgil L. ___________ Marion, O.
Flowers, Clarence P. ____________ Portsmouth, O.
Franke, Albert L. ___________ Belleaire, O.
Frye, Carl ____________ Newark, O.
Gallo, Frank ___________ Cleveland, O.
Gelb, Theodore P. ____________ E. Cleveland, O.
Grayson, Thomas B. ____________ Steubenville, O.
Gresmer, Robert Lee _______ Crestline, O.
Grimm, Carl L. ___________ St. Marys, O.
Hafczuk, Witold _______ Cleveland, O.
Hahn, Richard ___________ Zanesville, O.
Haight, Gordon E. _______ Medina, O.
Hammond, Harry S. _______ Wadsworth, O.
Harner, T. Gilbert _______ Danville, O.
Haury, Edna ___________ Akron, O.
Hawkins, Calvin C. ___________ Fostoria, O.
Haye, Frank __________ Lima, O.
Heath, Howard P. ___________ Dorset, O.
Herman, Hyman ___________ Cleveland, O.
Herron, Don A. ____________ Zanesville, O.
Heth, Richard W.  __  Montpelier, O.
Hill, Kenneth S.  _______Huntsville, O.
Hoffman, Frederick A.  ____Canton, O.
Hoffman, Kenneth O.  __________

--------North Baltimore, O.
Holbein, Curtis A.  __________Wadsworth, O.
House, Dana D.  ____________Wapakoneta, O.
Hronen, Joseph J.  ______Cleveland, O.
Hunecker, Fred W.  _______Dalton, O.
Jackson, Earl W.  ___________McDonald, O.
Jaffe, Edward G.  ________Cleveland, O.
Johnson, Frank  ___________Cleveland, O.
Johnson, Paul G.  __________Fredericktown, O.
Jones, Archie R.  __________Custer, O.
Kaplan, Joseph  ___________Cleveland, O.
Karlnsky, Michael  ________Cleveland, O.
Kates, Dave  ____________Hamilton, Can.
Katz, Morris  ___________Cleveland, O.
Keen, Donald S.  ____________

--------Clark’s Summit, Pa.
Keenan, J. W.  ___________Columbus, O.
Keplinger, Karl  __________Sidney, O.
Kerr, Donald R.  ________Eau Claire, Pa.
Kithy, Renzo  ____________

--------Cambridge Springs, Pa.
Kohen, Charles M.  ______Cleveland, O.
Koldzik, Henry  __________Cleveland, O.
Krieger, Ben  ___________Cleveland, O.
Lapidus, Irvin  ________Youngstown, O.
Lease, Jena L.  __________Harper, O.
Lefkowitz, Ernest  ______Cleveland, O.
Lehman, Floyd  __________Paulding, O.
Leicy, Herbert  _______Crestline, O.
Levine, Benjamin B.  ______Cleveland, O.
Lewin, Sidney  __________Cleveland, O.
Lindau, Maurice D.  ______Napoleon, O.
Long, Rufus J.  __________Arlington, O.
Lorentz, Everett R.  __________Williamstown, W. Va.

--------Wheeling, W. Va.
Lowe, Lester H.  ____New Lexington, O.
Maldonado, Rigoberto  Ponce, F. R.
Mandel, Lodi John  ______Cleveland, O.
Marcyse, Samuel  __________Cleveland, O.
Margolis, Allen  _______Cleveland, O.
Margolis, Isadore  __________Akron, O.
Masterson, Ray L.  ______Marietta, O.
Mauk, Glen D.  ________Strasburg, O.
Messersmith, Louis  __________Cleveland, O.

--------Akron, O.
Michealec, Bronislaus A.  __________Akron, O.
Miller, Delmo C.  ____________Upper Sandusky, O.
Miller, Wade W.  ______Sandusky, O.
Molitoris, Nicholas  ______Cleveland, O.
Morgan, Charles G.  __________Martins Ferry, O.

--------Niles, O.
Moseley, Ray  ____________Cleveland, O.
Natalie, Carl V.  _______Lowellville, O.
Newbold, Edward W.  __________Kenton, O.
Newman, Sanford  ________Cleveland, O.
Orr, Rene P.  ___________Applecreek, O.
Panfili, Philip  __________Cleveland, O.
Parrino, John J.  ________Cleveland, O.
Paul, Robert J.  _______New Bremen, O.
Perlman, Albert  __________Cleveland, C.
Pew, Douglas B.  __________E. Cleveland, O.
Phillips, Donald P.  __________Bucyrus, O.
Pitkowski, Isadore  ______Cleveland, O.
Ports, W. G.  ____________Huntsville, O.
Porus, Henry R.  _______Cleveland, O.
Raeburn, Danny  __________Warren, O.
Rainer, George  __________Logan, O.
Rardin, Clarence L.  _______Akron, O.
Rawers, Barthold E.  __________Chickasaw, O.
Rice, Herbert L.  __________Tiltonville, O.
Richardson, J. Starlin  __________Vienna, W. Va.

--------Ada, O.
Ritman, Carl  ___________Ada, O.
Robbins, Hyman L.  ______Cleveland, O.
Rowland, Wallace  _______Akron, O.
Rudolph, Philip  _______Cleveland, O.
Ruxin, Albert  ___________Cleveland, O.
Saltsman, Clarence L.  __________Wellsville, O.

--------Cleveland, O.
Samolar, Sidney O.  ______Cleveland, O.
Sanfillippo, Thomas J.  ______Cleveland, O.
Schaal, W. F.  __________Logan, O.
Schechter, Jack F.  _______Cleveland, O.
Scott, Arthur T.  _______Carrollton, O.
Seaman, Thomas E.  ______Port Clinton, O.
Shannon, William  __________Dayton, O.
Shellinski, Max  _______Cleveland, O.
Shigley, Henry H.  _______Jamestown, O.
Shipan, Joseph  ___________Cleveland, O.
Shoemaker, Edgar J.  ______Akron, O.
Shoemaker, Paul J.  __________Columbus, O.
Siegell, Morris ______ Cleveland, 0.
Smith, Eula Linda ______ Fremont, O.
Smith, Roscoe L. ______ Tippecanoe City, O.
Smith, Ross P. ______ Tippecanoe City, O.
Smith, William J. ______ Steubenville, O.
Snell, John ______ Crooksville, O.
Solon, Howard J. ______ Logan, O.
Sosa, Jacinto ______ San Fernando, Cuba
Speice, Clarence ______ Cleveland, O.
Stallkamp, T. H. ______ Delphos, O.
Steiner, Weldon F. ______ Bluffton, O.
Stirn, Thurlo ______ Cloverdale, O.
Strazan, Stephen V. _________ Marshallville, O.
Stringer, David ______ Girard, O.
Sugranes, Jose G. ______ Maunabo, P. R.
Summers, Roland M. ______ Oberlin, O.
Speice, George N. ______ Cleveland, O.
Thomas, D. Walter ______ Niles, O.
Tippin, Charles ______ Mt. Blanchard, O.
Trageser, Edward ______ Niles, O.
Treby, William L. ______ Marion, O.
Trumbull, Clyde O. ______ Wood, O.
Valenti, Basil J. ______ Cleveland, O.
VonDuyke, Frank R. _________ Rocky River, O.
Wagner, Walter F. _______ Zanesville, O.
Ware, Walter C. _______ Martins Ferry, O.
Warren, Arthur E. _______ Cleveland, O.
West, Harmon ______ Salem, O.
Williams, Ward ________ Cadiz, O.
Wilson, Frederick ______ Steubenville, O.
Wineberg, Elmer ________ Cleveland, O.
Winkler, William T. ______ Dover, O.
Wise, Roy F. _________ Van Wert, O.
Yeager, Andrew _______ Cleveland, O.
Zugsda, George _______ Chicago, Ill.

COLLEGE OF MUSIC

Baker, Christine ________ Lima, O.
Bergman, Belva ________ Lima, O.
Betl, Alice ____________ Ada, O.
Calvert, Ethel Miller ___ Alger, O.
Coles, Mozelle _____ Upper Sandusky, O.
Fithen, Winifred ________ Ada, O.
Gehrisch, Falita _______ Ada, O.
Huber, Hope _________ Bluffton, O.
Hudson, Frances _______ Antwerp, O.
Irck, Betty _____________ Ada, O.
Pee, Julia _____________ Van Wert, O.
Puiskamp, Andrea ___ Chickasaw, O.
Rader, Virginia _______ Leipsic, O.
Ruddick, Wesley ___ Cincinnati, O.
Sutermeister, Everett __ Kenton, O.
Uhl, David ___________ Venedocia, O.
Watkins, Blodwen ______ Lima, O.
Wilcox, Evelyn __________ Ada, O.

Special Music

Allcroft, James Jr. ______ Ada, O.
Arbogast, Betty ________ Ada, O.
Arbogast, Wilhelmina ___ Ada, O.
Baker, Helen __________ Ada, O.
Baldwin, Wanda ________ Ada, O.
Betl, Alice ____________ Ada, O.
Binkley, Lowell ________ Ada, O.
Binkley, Robert ________ Ada, O.
Binkley, Wilma _________ Ada, O.
Boda, James Marvin ___ Ada, O.
Brewer, John Arthur ___ Ada, O.
Bureau, Edna __________ Ada, O.
Burnett, Robert ________ Ada, O.
Burnett, Rosamond ______ Ada, O.
Burns, Cosetta _________ Kirby, O.
Burns, Lillian __________ Kirby, O.
Burris, Mac ____________ Ada, O.
Carpenter, Ruth ________ Ada, O.
Chestosky, Mary Martha ___ Ada, O.
Clark, Doris ___________ Alger, O.
Clark, Lloyd ___________ Alger, O.
Clark, Mary ____________ Alger, O.
Clum, Golda ___________ Ada, O.
Cole, Martha Helen _____ Ada, O.
Doling, Margaret ________ Ada, O.
Durbin, Eva _____________ Harrod, O.
Eddy, Norma Jean ------- Ada, O.
Fisher, Charles -------- Ada, O.
Fisher, Elmer ---------- Ada, O.
Fisher, Helen --------- Ada, O.
Gant, Imogene --------- Ada, O.
Gant, Lucille --------- Ada, O.
Graves, Bobby -------- Ada, O.
Hare, Janet ---------- Ada, O.
Harrold, Rachel ------- Ada, O.
Hight, Alice --------- Ada, O.
Hively, James ------- McGuffey, O.
Hofer, Rosemary ------- Ada, O.
Hover, Olive ---------- Ada, O.
Hubbell, Charles ------ Ada, O.
Huber, Evan ---------- Ada, O.
Huber, Frances ------ Ada, O.
Huber, Harold ------- Ada, O.
Jameson, Herbert ----- Ada, O.
Jones, Irene Elizabeth Ada, O.
Juddkins, Lois Jean Ada, O.
Karrick, Marie ------- Ada, O.
Kelsey, Catherine ---- Ada, O.
Kerr, Eugene -------- Ada, O.
King, Catherine ----- Mt. Cory, O.
Klingler, Ruth ------ Ada, O.
LaMoore, Marguerite Ada, O.
Lowman, Billy ------- Ada, O.
McElroy, Elaine ------ Ada, O.
McElroy, Riley ------- Ada, O.
McElroy, Thelma ----- Ada, O.
McElwain, Eleanor Ada, O.
McElwain, Maxine Ada, O.
McQuown, Betty ----- Ada, O.
McQuown, Dorabel Ada, O.
Main, Robert -------- Ada, O.
Mertz, Virginia ----- Ada, O.
Michel, Robert ------ Ada, O.
Miller, Mary Delight Ada, O.
Mitchell, Ruth ------ Ada, O.
Morris, Clay ------- Ada, O.
Munford, Clarence Massillon, O.
Niswander, Kenneth Ada, O.
Niswander, Paul ------ Ada, O.
Orahood, Belle ------ Ada, O.
Orahood, Mary ------ Ada, O.
Owens, Elizabeth Ada, O.
Park, Geraldine --- Belle Center, O.
Patton, Ross -------- Ada, O.
Pratt, Catherine --- Ada, O.
Pratt, George ------- Ada, O.
Preston, Mary ------- Ada, O.
Pugh, Rosamond Ada, O.
Ramsey, Ruth ------- Ada, O.
Reed, Katherine Ada, O.
Richardson, Gertrude Ada, O.
Richardson, Tommy Ada, O.
Rockwell, Beatrice Ada, O.
Routson, Ruth ------- Ada, O.
Rutser, Raymond Ada, O.
Sailer, Parol ------- Ada, O.
Sautter, Louis ------ Ada, O.
Shaw, Joan -------- Ada, O.
Shrider, Park ------- Ada, O.
Sleeman, Caroline Ada, O.
Sleeman, Margaret Ada, O.
Smith, Esther ------- Ada, O.
Smull, Leland Ada, O.
Smull, Miriam May Ada, O.
Sousley, Harriet Ada, O.
Sousley, Leila ----- Ada, O.
Sousley, Walter Ada, O.
Stambaugh, Mrs. Jennings M. Ada, O.
Stonehill, Jane ------- Ada, O.
Strahm, Robert ------ Ada, O.
Tallman, Billy ------ Ada, O.
Tipple, Martha Ada, O.
Tipple, Robert Ada, O.
Turner, Milo ------- Ada, O.
Van Buren, Margaret Forest, O.
Van Buren, Mary ----- Forest, O.
Van Buren, Tresa Ada, O.
Warner, Pauline --- Dunkirk, O.
Wilson, Harold ------ Ada, O.
Wilson, Robert ------ Ada, O.
Wright, Mildred Ada, O.
Younkman, Beulah LaFayette, O.
Zickafosse, Maxine Ada, O.
Zickafosse, Ruth Ada, O.
SCHOOL OF COMMERCE

Allen, Robert  _________ Ada, O.
Boda, Clarinell  __________ Ada, O.
Bonham, Elizabeth  __W. Mansfield, O.
Carr, Leonard  __________ Antwerp, O.
Dickerson, Ernest  __________ Galion, O.
Dustin, Almira  __________ Galena, O.
Earl, Howard  __________ Ada, O.
Emmons, William E.  __ Norwalk, O.
Fritchle, Robert  __________ Upper Sandusky, O.
Fry, Margaret  __________ Ada, O.
Forry, Eloise  __________ Marysville, O.
Goss, Frank  __________ Bantam, Vt.
Harman, Dorothy F.  __Lakewood, O.
Harman, Tressa  __________ Bucyrus, O.
Harter, Golda M.  __________ Kenton, O.
Hay, Mary  __________ Harrod, O.
Hoffman, Howard B.  __Paulding, O.
Jones, Jeanette B.  __________ Ada, O.
Kattman, Henry W.  __________ Canton, O.
Klingler, Elizabeth  __________ Ada, O.
Kohn, Kenneth L.  __________ Van Wert, O.
Kreischer, Erma E.  __________ Van Wert, O.
Landon, LeIrma  __________ Ada, O.
Lanese, Nicholas  __________ Cleveland, O.
Lang, Alphonse  __________ Cleveland, O.
Lang, Theodore  __________ Cleveland, O.
Leslie, Harold J.  __________ Convoy, O.
McLaughlin, Mary C.  __________ Ada, O.
McWilliams, Winifred  __________ Ada, O.
Main, Richard  __________ Ada, O.
Martiny, Lawrence W.  __________ Allegheny, N. Y.
Montgomery, Ivan  __________ Bluffton, O.
Myers, Elizabeth  __________ Ada, O.
Newland, Gerald  __________ Alger, O.
Owczarek, Walter  __________ Elyria, O.
Phillips, Jay Emmons  __________ Chicago, Ill.
Raabe, Mary Ruth  __________ Ada, O.
Reese, Kathryn  __________ Ada, O.
Rettig, Eunice  __________ Arlington, O.
Sells, Lewis  __________ Kenton, O.
Shackelford, Doan  __________ Alger, O.
Shepherd, Alma Ames  __________ Ada, O.
Siniff, Dale R.  __________ Ohio City, O.
Sloan, Isabel  __________ Kenton, O.
Smith, J. Bradford  __________ Scenery Hill, Pa.
Smith, Evelyn  __________ Ada, O.
Smith, Neil E.  __________ Noble, O.
Spisak, Victor  __________ Girard, O.
Steinman, Emerson  __________ Jenera, O.
Switzer, Mary Catherine  __________ Van Wert, O.
Swope, Daniel  __________ Dayton, O.
Welsh, Kenneth  __________ Dola, O.
Whiteman, Helen  __________ Liberty Center, O.
Wilder, Mary  __________ Springfield, O.

SPECIAL STUDENTS

Florida, Fred  __________ Ada, O.
Martig, John  __________ Lewisville, O.
Steven, Katherine  __________ Forest, O.

Varga, Katherine  __________ Lima, O.
Varga, Joanna  __________ Lima, O.
SCHOOL OF EXPRESSION

Bodkin, Aldora  ______ Chickasaw, O.
Charlton, Iantha  1
Sulphur Springs, O.
Hatfield, Margaret 1 Lakeview, O.
Howison, Bernice 1 Waldo, O.
Huntsman, Cecil 1 Leipsic, O.
McVey, Pauline 1 Kenton, O.
Newman, Elsie May 1 Trinidad, Col.
Todd, Martha M. 1 McComb, O.

SCHOOL OF FINE ARTS

Harshbarger, Margaret 1
Swanders, O.
Schmitz, Lois E. 1 Toledo, O.
Stanfield, John M. 1
Rushsylvania, O.
Stambaugh, Alma 1 Ada, O.

Geographic Distribution, 1928-1929
(Fall Quarter, 1928, to Summer Quarter, 1929, Inclusive)

BY STATES

<table>
<thead>
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<th>State</th>
<th>Number</th>
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<tbody>
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<td>Ohio</td>
<td>1,466</td>
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<td>California</td>
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<td>Connecticut</td>
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<td>Illinois</td>
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<td>Indiana</td>
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BY FOREIGN COUNTRIES

<table>
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<th>Country</th>
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<tbody>
<tr>
<td>Canada</td>
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<td>Persia</td>
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</tr>
<tr>
<td>China</td>
<td>1</td>
</tr>
<tr>
<td>Porto Rico</td>
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<tr>
<td>Cuba</td>
<td>1</td>
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<td>Russia</td>
<td>1</td>
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<tr>
<td>Total</td>
<td>13</td>
</tr>
<tr>
<td>Grand Total (Four Quarters)</td>
<td>1,606</td>
</tr>
</tbody>
</table>
† Senior Class of 1930

COLLEGE OF LIBERAL ARTS

Artino, Carmen
Baker, Helen Lucille
Battels, Mildred
Bayes, Albert
Bronstein, Pauline
Brownell, Portia
Buehler, Edna
Castelli, Peter
Corso, S. Hubert
Crawford, Leonard
Cribley, Leslie
Davis, John
DeWitt, Helen
Ferris, Homer
Findley, Margaret Kopp
Ford, Chalmer
Freeman, Eleanor
Gray, Helen Henrietta
Gray, Zada
Herring, Findley
Hubbell, Mary
Hughes, Ruth Dailey
Jacoby, Mathew
Kennedy, Irene
Laughrey, Coral
Linderman, Mary
Long, Richard
McAlpin, Robert
Mikesell, Ralph
Miller, Hubert
O’Bruba, Andrew
Pastor, Julius
Rowe, Floyd
Runser, Mildred
Schwartz, Sam
Scelander, Margaret
Sleesman, Dorothy
Smith, Albert H.
Stone, Hubert
Strahm, Carol
Tarnoczi, Andrew
Warren, Ethel
Weir, Kenneth
Whisker, Vaughn
Whyman, Helen
Williams, Charles

COLLEGE OF EDUCATION

*Augsburger, Frances
*Austin, Evelyn
*Beery, Ruby Alice
*Bergman, Belva
*Black, Florence
*Blanke, Lloyd
Bolles, Dorothy
Bornmann, Ruth
*Bowman, Jennie
*Compton, Mildred
*Deringer, Audren
*Fishbaugh, Samuel
*Fox, Norma
Geer, Mary
*Gribben, Katherine
Gilliland, Dale

*Hammond, Genieve
*Hershner, Faye
*Huffman, Pearle
Huston, Evelyn
*Johnson, Beulah
Kell, Herbert
*Lemon, Carol
Lorentz, Bertha
*McElroy, Lorene
*Martin, Catherine
*Masters, Florence
Maxwell, Verna
Mitchell, Hamer
*Moore, Dorothy
Poe, Julia
Priddy, Richard

† This list includes members of the senior class at the beginning of the academic year.

* Two-Year Elementary
Rickenbacker, Wilma
*Riddle, Gayle
Rogge, Howard
Ruddick, J. Wesley
*Shultz, LaBerta
*Sigler, Elizabeth
*Steiner, Martha
*Taylor, Elizabeth
*Teeters, Nell

Tudor, Dorothy
*Underwood, Hope
*Van Meter, Mareta
Van Orsdall, George
*Witwer, Lillian
*Young, Iva
Younkman, Dale
Younkman, Earl

COLLEGE OF ENGINEERING

Adams, Robert
Biggs, Robert
Bondley, Ralph
Cameron, Wilbur
David, J. Robert
Ellis, Edison
Emery, Sheldon
George, Olin
Goodman, Louis
Graves, Joe Clinton Jr.
Green, Roy
Hartshorn, Rolfe
Henning, Bertsell
Hershberger, Carl
Lanese, Carmen

Leatherman, Henry
Luikart, Paul
McGahan, John
McKinley, Howard
Mertz, Robert
Mustard, Jack
Nazario, Arturo
Pankow, Edmund
Pospisil, Charles
Rhodes, Don
Rosebrook, Homer
Schwartz, John
Suber, Leo
Taylor, Willard
Weber, Gustave

COLLEGE OF LAW

Abramson, Jacob
Cooper, Thomas
Corso, Gaspare
Craig, Carl
Cummins, Kyle
Curtis, Donald
Dunwoody, Walter
Ewing, Claude
Fels, Lowell
Fetterman, Sol
Gerros, Peter
Glaros, Thomas
Kennedy, Nell

Layton, Bernice
Leuthold, Ruth
Lipski, Harry
McNamara, George
Morean, Robert
Pratt, Arvilla
Robertson, Donald
Ross, Michael
Schurman, Christian
Silbaugh, Verne
Stickles, Edward
Summers, Samuel
Thomas, Mozelle

*Two-Year Elementary
COLLEGE OF PHARMACY

Asman, Luther
Bartram, Robert
Bassichis, Jack
Blostein, Abraham
Butch, Felix
Chaky, Francis
Deisher, Richard
DeMarsh, Louis
Elsasser, Glenn
Erick, Harry
Frye, Carl
Gelb, Theodore
Harmer, Thomas G.
Hawkins, Calvin
Horwitz, Herman
House, Dana
Hunter, Betty
Johnson, Frank
Kaplan, Joseph
Keen, Donald
Koch, Sanford
Koldzik, Henry
Lapidus, Irwin
Leicy, Herbert
Lewin, Sidney
Lindau, Maurice
Livingston, Ralph
Margolis, Allen I.
Michalec, Bronislaus
Miller, Wade
Morgan, Charles
Moseley, Ray
Paul, Robert J.
Perlman, Albert
Phillips, Donald
Powers, Donald
Radenbaugh, John
Raeburn, Danny
Ridgway, Ray
Schaal, William
Smith, William
Speice, Clarence
Stringer, David
Summers, Roland
Treby, William
Valenti, Basilio
Von Duyke, Frank
Wilder, Milton
Wilson, Frederick
Youll, James

COLLEGE OF MUSIC

Irick, Betty

SCHOOL OF COMMERCE

Dustin, Almira
Harmon, Dorothy
Hay, Mary
Kohn, Kenneth
Lanese, Nicholas
Leslie, Harold
Shepherd, Sylvia
Register of Students, 1929-1930
(Fall Quarter, 1929, to Spring Quarter, 1930, Inclusive)

COLLEGE OF LIBERAL ARTS

Adkins, Raymond ______ Lima, O.  
Aldrich, Lamar _______ Sidney, O.  
Allen, George __________ Ada, O.  
Allen, John _____________ Ada, O.  
Anglade, Ismael _ Guayama, P. R.  
Arbogast, Margaret _____ Ada, O.  
Aronson, Norman _______ Circleville, O.  
Arter, Helen -- Upper Sandusky, O.  
Artino, Carmen _______ Cleveland, O.  
Auten, Vera ___________ Rawson, O.  
Badalmenti, James -- Cleveland, O.  
Baker, Elizabeth __________ Ada, O.  
Baker, Helen __________ Rawson, O.  
Ball, George Glen ________ Warren, O.  
Baransy, Florine __________ Ada, O.  
Barnes, Russell __________ Ada, O.  
Bartlett, Bert -- Springboro, Pa.  
Battels, Mildred __________ Ada, O.  
Bauman, Ruth ___________ Mt. Cory, O.  
Baumgartner, Myron ______ Dalton, O.  
Bayes, Albert __________ Farmer, O.  
Berger, Lewis ___________ Ada, O.  
Beyer, Alton J. _______ Somerset, O.  
Blackford, James -- Martins Ferry, O.  
Boardman, James ___________ Niagara Falls, N. Y.  
Bowen, Donald ____________ Wren, O.  
Bowers, Lucille ______ St. Marys, O.  
Bowers, Margaret __________ Ada, O.  
Brace, Russell _______ Randolph, N. Y.  
Brame, Clota ____________ Ada, O.  
Brickman, Arthur _____ McComb, O.  
Brofman, William __ Cleveland, O.  
Brokaw, August __________ Ada, O.  
Brokaw, Thelma __________ Ada, O.  
Bronstein, Pauline __ Cleveland, O.  
Brooks, Lauretta _______ Payne, O.  
Brown, Ilo ______________ Ohio City, O.  
Brown, Miller ____________ Ada, O.  
Brownell, Portia ___________ Washington C. H., O.  
Budin, David ____________ Cleveland, O.  
Buehler, Edna ____________ Ada, O.  
Carmosino, Joseph -- Cleveland, O.  
Castelli, Peter _______ Bridgeville, Pa.  
Chapek, Louis F. _______ Cleveland, O.  
Clark, Mildred __________ Alger, O.  
Cole, Harvey S. _______ Ligonier, Ind.  
Cole, Robert _____________ Ada, O.  
Conard, Janice ___________ Canal Zone  
Connelly, LeMar __________ Ney, O.  
Conway, Summer-Liberty Center, O.  
Corso, S. Hubert--Cleveland Hts., O.  
Crawford, George __ Massillon, O.  
Crawford, Leonard __________ Ada, O.  
Cribbley, Leslie __________ Ada, O.  
Crichtlow, Jeannette __________ Ada, O.  
Crowl, Virgil ____________ Bellaire, O.  
Cummins, Raymond __________ Ada, O.  
Cummins, Willis __________ Ada, O.  
Danchik, Ben _____________ Cleveland, O.  
Davis, John Elmo __________ Magnetic Springs, O.  
DeGregori, Rose-Ruth--Cleveland, O.  
DeWitt, Helen __ West Millgrove, O.  
Diller, Wade ____________ McComb, O.  
Doak, Franklin __________ Cleveland, O.  
Dome, Dorothea __________ Ada, O.  
Dotson, Ray ________ New Hampshire, O.  
Downing, Robert __________ Lima, O.  
Eberhart, Fred __________ Williamstown, O.  
Ebner, Claude ___________ Lima, O.  
Ellis, Dorris _____________ Ada, O.  
Ellis, Richard ___________ Kenton, O.  
Emery, Vivian ____________ Marion, O.  
Everett, Howard __________ Lima, O.  
Eversole, Clifford ___ LaFayette, O.  
Faust, Samuel ___________ Troy, O.  
Fighter, Dean ___________ Mansfield, O.  
Findley, Margaret __________ Ada, O.  
Fleming, Eloise __________ Scranton, N. D.  
Flood, James ___________ Sayre, Pa.  
Fogle, Cecil _____________ Dunkirk, O.  
Ford, Chalmer ___________ Lore City, O.  
Francis, Robert __________ Marion, O.  
Freeman, Eleanor __________ Ada, O.
Fugate, Clifford — Van Wert, O.
Gallagher, John ———— Ironton, O.
Gallant, Harvey ———— Ada, O.
Geist, Myra ———— Malinta, O.
Genevriere, Rose —— Bellaire, O.
Gesaman, Alice ———— Ada, O.
Gompf, Verna Mae ———— Waldo, O.
Goodman, Martha —— Cleveland, O.
Gray, Helen ———— Wooster, O.
Gray, Zada ———— Ada, O.
Griffith, Paul ———— Lebanon, O.
Guthrie, Lloyd ———— Ada, O.
Haber, Dan ———— Greenville, O.
Hainen, Vincent ———— Bettsville, O.
Harner, Glendon ———— Lima, O.
Harrod, Paul ———— Ada, O.
Harshbarger, Margaret ———— Swanders, O.
Hartzell, Daniel ———— Greenville, O.
Hauman, Mary Bess ———— Kenton, O.
Hawkins, Ethel ———— Lima, O.
Helms, Milton — East Liverpool, O.
Hemphill, Eugene ———— Ada, O.
Herring, Findley ———— Ada, O.
Hershberger, Marjorie ———— Ada, O.
Hesser, Juanita ———— Ada, O.
Hilty, Luella ———— Ada, O.
Hindall, George ———— Ada, O.
Hinkle, Ercil ———— Dunkirk, O.
Horst, William L. ———— Harrod, O.
Houck, George ———— Massillon, O.
Hubbell, Mary ———— Ada, O.
Huebner, Wolfgang ———— Canton, O.
Huffman, Janet ———— Ada, O.
Hughes, Doris ———— Lima, O.
Hughes, Ruth D. ———— Ada, O.
Hunt, Thomas ———— Salamanca, N. Y.
Huston, Victor ———— Alger, O.
Jacoby, Mathew — Pittsfield, Mass.
James, John ———— St. Johns, O.
Jaycox, Hartley — McKeeseport, Pa.
Jeffries, Edna ———— Mendon, O.
Johnson, Curtis ———— Detroit, Mich.
Johnston, William G. ———— Lowellville, O.
——— Jones, Jeanette ———— Ada, O.
Jones, Richard ———— Vaughnsville, O.
——— Judkins, Lois Jean ———— Ada, O.
Kaylor, Hugh ———— Kenton, O.
Keith, Lucille ———— Ada, O.
Kemp, Lewis ———— Magnolia, O.
Kempf, Morris ———— Kenton, O.
Kennedy, Irene ———— Ada, O.
Kennedy, James ———— Peninsula, O.
King, Lawrence —— Bellefontaine, O.
Kleifeld, John ———— Cleveland, O.
Kohn, Kenneth ———— Van Wert, O.
Krill, Ruth ———— Bryan, O.
Kuenzli, Clara — Upper Sandusky, O.
Kuhrs, William — Dalmatia, Pa.
Landon, LeIrma ———— Ada, O.
Langshaw, Eleanor ———— Perry, O.
Langshaw, Howard ———— Perry, O.
Laughrey, Coral ———— Kenton, O.
Lavine, Elmont ———— Canton, O.
Laymaster, John ———— Marysville, O.
Leonard, Vance ———— Ada, O.
LePage, Herbert — Pleasant City, O.
Levengood, Elizabeth — Bellwood, Pa.
Liggett, Robert ———— Indiana, Pa.
Linderman, Mary — Mt. Gilead, O.
Long, Richard ———— Ada, O.
Long, Russell ———— Ada, O.
Lowman, Eunice ———— Ada, O.
Lucas, Virgil ———— Cloverdale, O.
Lukacevic, Edward — Midland, Pa.
McAlpin, Robert ———— Ada, O.
McClain, Sam ———— Bellaire, O.
McCleary, Rush ———— Ada, O.
McCurdy, Trola ———— Ada, O.
McCleary, George ———— Ada, O.
McHugh, James ———— Smithfield, O.
McVey, Robert ———— Kenton, O.
MacDonald, Earl ———— Cleveland, O.
Mannhardt, Herman — Custar, O.
Marsh, John ———— LaFayette, O.
Martin, Milton ———— Andover, O.
Martino, Anthony ———— Cleveland, O.
Mathews, Elizabeth — Mansfield, O.
Mauro, Guy ———— Leetonia, O.
Mead, Mildred ———— Cadiz, O.
Meehan, Lawrence — Lowellville, O.
Merhab, Louis — Columbus Grove, O.
Mertz, Forest ———— Ada, O.
Messenger, Bill ———— Ada, O.
Messenger, Hale       Ada, O.
Michael, Richard      Ada, O.
Mikesell, Ralph       New Paris, O.
Miller, Daniel        Niles, O.
Miller, Hubert        Ada, O.
Miller, Lawrence      Ada, O.
Miller, Mary Jane     Wapakoneta, O.
Miller, William J.     Cairo, O.
Milliette, Lola       Wapakoneta, O.
Moorehead, John       Findlay, O.
Mort, Roy             Niagara Falls, N. Y.
Murphy, Carrie        Ada, O.
Mushaw, Delmas        Alger, O.
Nye, Willis           Marion, O.
Parish, John          Marion, O.
Pees, Mervyn          Dola, O.
Petersen, Charles      Ada, O.
Petersen, Margaret     Ada, O.
Pilkington, C. Dwight  Gambier, O.
Povenmire, Dorothy     Ada, O.
Pratt, Thelma          Shaker Hts., O.
Price, Charles R.      Kenton, O.
Price, Nathan          Cleveland, O.
Priddy, Josef          Van Wert, O.
Pugsley, Irene         Cleveland Hts., O.
Rau, Lawrence          Kittanning, Pa.
Ray, Edwin             Ada, O.
Reed, Anna Eileen      Ada, O.
Reed, Arthur           Lowellville, O.
Reed, Gladys           Ada, O.
Ridenour, Edgar        Elda, O.
Roberts, Charles       Youngstown, O.
Rockwell, Gerald       Ada, O.
Roraback, Lewis        Sheffield, Mass.
Rothlisberger, Virgil  Arlington, O.
Routson, Walter        Ada, O.
Rowe, Floyd            Lima, O.
Runser, Charles        Ada, O.
Runser, Mildred        Ada, O.
Runyan, Helen          Delphos, O.
Rutter, Homer          Perry, O.
Schartzer, George      Agosta, O.
Schwartz, Sam          Cleveland, O.
Scott, Helen           Ada, O.
Searfoss, Clark        Harrod, O.
Searfoss, Don          Harrod, O.
Selanders, Margaret    LaRue, O.
Shank, Joseph          Toledo, O.
Shanks, Royal          Ada, O.
Shelly, Harold         Ada, O.
Shepard, Lawrence      Amador, O.
Shepherd, Harless      Kenton, O.
Shermer, Robert        Youngstown, O.
Shultz, Ralph          Ada, O.
Simon, Peter J.        Cleveland, O.
Siverling, A. Ross     Salamanca, N.Y.
Sleesman, Dorothy      Ada, O.
Sloan, Edward          Marion, O.
Smith, Albert H.       Findlay, O.
Smith, Albert J. F.    Lima, O.
Smith, Delmar          Van Wert, O.
Smith, Frankie         Ada, O.
Speer, Mildred         Ada, O.
Spitler, Emmett        McComb, O.
Stanfield, John         Rushsylvania, O.
States, John           Ada, O.
Steiner, James         Lima, O.
Stone, Hubert          Oberlin, O.
Strahm, Carol          Ada, O.
Stroh, Millie          Linglestown, Pa.
Sweeney, James         Amsterdam, O.
Sweet, Elizabeth       Lebanon, Conn.
Talman, Hazel          Ada, O.
Tarnoczi, Andrew       Barberton, O.
Taylor, Madeline       Ada, O.
Templeton, Elizabeth   Lima, O.
Teple, Edwin           Toledo, O.
Throcmorton, Kenneth   Marengo, O.
Torpey, Ervin          Sayre, Pa.
Tudor, Beulah          Lima, O.
Valentine, Ralph       Bryan, O.
Vermillion, Fred       Alger, O.
Wakefield, Urban       Morrisville, Vt.
Walston, James         LaFayette, O.
Ward, Glenn            Clay, W. Va.
Ward, Miller           Ada, O.
Warren, Ethel          Ada, O.
Warren, Mark           Ada, O.
Watkins, Autha         Ada, O.
Weir, Kenneth          Ashtabula, O.
Welty Kathryn          Ada, O.
Westcott, Paul         Ashtabula, O.
Whisker, Vaughn        New Buna Vista, Pa.
Whitlock, Harold ....... Convoy, O.
Whyman, Helen ...... Cincinnati, O.
Wildern, Edwin ....... Dayton, O.
Williams, Charles .... Greenville, O.
Williams, Joseph ..... Versailles, O.
Willinganz, Walter .......... Sheboygan, Wis.
Willits, Oramel ....... East Liberty, O.
Winegardner, Chloene .... Waynesfield, O.
Witten, Walter ......... Ohio City, O.

Wolfrom, Mary ........... Ada, O.
Wood, Grace Ann ......... Ada, O.
Wood, Moston ............. Ada, O.
Woodall, Henry ............ Niagara Falls, N. Y.
Woodruff, Landon B. ...... Martins Ferry, O.
Wray, Lawrence .......... Tippecanoe City, O.
Yeager, John .............. Delta, O.
Young, Leilah ............. Anna, O.

COLLEGE OF EDUCATION

Askey, Mary ............. Findlay, O.
Augsburger, Frances ...... Columbus Grove, O.
Austin, Evelyn .......... Willard, O.
Bauer, Dorothy ....... Hamersville, O.
Baxter, Louise ......... Convoy, O.
Beery, Ruby ............. Columbus Grove, O.
Benge, Mary Lou ........ Ada, O.
Bergman, Elva ........... Lima, O.
Beyer, Grace ............ Somerset, O.
Black, Florence ......... Huntsville, O.
Blanke, Lloyd .......... Anna, O.
Bolish, Aloysius_Upper Sandusky, O.
Bolles, Dorothy .......... Stryker, O.
Bornmann, Ruth .... Brooklyn, N. Y.
Bourk, Kathryn .......... Lima, O.
Boutwek, Mildred ....... Ada, O.
Boutwell, Mildred ...... Ada, O.
Bowman, Jennie .......... Ada, O.
Brewer, Lois ............ Ada, O.
Brownell, Alice_Washington C. H., O.
Bushong, Elton ...... Williamstown, O.
Butler, Grace ......... Deshler, O.
Buttermore, Violet ...... Lorain, O.
Campbell, Evelyn ....... Harrod, O.
Carpenter Eileen ........ Lima, O.
Cayton, Jasmine ...... Nelsonville, O.
Coats, Hazel ............ Ada, O.
Colucci, Frances ......... Lima, O.
Combs, Dorothy .......... Kenton, O.
Combs, Mary ............. Kenton, O.
Compton, Mildred ......... Anna, O.

Conner, Josephine ........ Ada, O.
Corwin, Martha .... Rushsylvania, O.
Cox, Beulah ............ Sidney, O.
Cummings, Hope .... Lewisburg, O.
Curtis, Marie ........... Anna, O.
Deringer, Audren ....... Ada, O.
DeWitt, Esther .......... Dunkirk, O.
Dimond, Robert .... Lima, O.
Dyer, Dwain ............ Caldwell, O.
Easterday, Eva .......... Marengo, O.
Eberhardt, Anna_Williamstown, O.
Erbaugh, Aloysia ... Dayton, O.
Fishbaugh, Samuel .. Celina, O.
Fishbaugh, Wayne .... Mendon, O.
Focht, Wilda ........... Kenton, O.
Fox, Norma .......... Paulding, O.
Geer, Mary ............. Sidney, O.
Glessler, Theophilus ... Convoy, O.
Gilliland, Dale ... Van Wert, O.
Gould, Milo .......... McGuffey, O.
Graham, Gilbert ...... Bartlett, O.
Greene, Mary .... Sunbury, O.
Gregg, Carlton .......... Urbana, O.
Greulach, Marie ........ Convoy, O.
Gribben, Katherine ...... Upper Sandusky, O.

Hammond, Genieve ......... Fairport, N. Y.
Hampton, Milfred .... Ashtabula, O.
Harlan, Evelyn .......... Springfield, O.
Hatcher, Ella Jane .... Ridgeway, O.
Hawk, Helen ............. Lima, O.
Hershner, Faye _______ Galion, O.
Higbie, Howard ______ Jenera, O.
Hoel, Edson _________ Lima, O.
Holland, Roberta ________ West Mansfield, O.
Holycross, Esther ______ Ada, O.
Holycross, Miriam ______ Ada, O.
Hudson, Frances _______ Antwerp, O.
Huffman, Pearle _______ Findlay, O.
Huston, Evelyn ___________ Alber, O.
Hutchinson, Mary _______ Kenton, O.
Hyde, Clifford_ West Farmington, O.
Iams, Roy ___________ McGuffey, O.
Ickes, Marcella _______ Forest, O.
Johnson, Beulah _______ Kenton, O.
Johnson, Maude Marie ___ Marion, O.
Jolliff, Monalite ___ Mt. Victory, O.
Jolliff, Marguerite ___ Mt. Victory, O.
Jones, Anna ___________ Venedocia, O.
Kearns, Doris _______ Kenton, O.
Kelly, Eleanor __________ Ada, O.
King, Christina_ North Baltimore, O.
Kissling, Tressie ___ McGuffey, O.
Krugh, John ___________ Venedocia, O.
Leatherman, Pauline_ Wadsworth, O.
Lemon, Carol _ Magnetic Springs, O.
Lemon, Esther_ Magnetic Springs, O.
Liming, Esther _______ Hamersville, O.
Lorentz, Bertha _______ Hebron, O.
Lowman, Helen _________ Ada, O.
Lusk, Kenneth_ New Hampshire, O.
McAlpin, Frances _______ Ada, O.
McAlpin, Joseph ________ Ada, O.
McCurdy, Flora _______ Ada, O.
McIntire, Cloyd _______ Kenton, O.
McKibben, Ralph __ Continental, O.
McLaughlin, Velma ___ Bucyrus, O.
Marks, Margaret _______ Lorain, O.
Martin, Catherine_ Youngstown, O.
Martin, Gladys __________ New York Mills, N. Y.
Martin, Oliver ___ St. Clairsville, O.
Maxwell, Verna _____ Miller City, O.
Mitchell, Hamer __ Bellefontaine, O.
Moore, Dorothy ___ Youngstown, O.
O’Bruba, Andrew ___ Youngstown, O.
Patterson, Paul _______ Ironton, O.
Patterson, Richard ___ Mt. Gilead, O.
Poe, Julia ___________ Van Wert, O.
Post, Helen ________ Spencerville, O.
Priddy, Richard R. ___ Van Wert, O.
Ream, Opal ___________ Ada, O.
Reiff, Donald ___________ Marion, O.
Richards, Evelyn _______ Morral, O.
Rickenbacker, Wilma ___ Forest, O.
Riddle, Gayle __________ Willard, O.
Rogge, Howard ___ Liberty Center, O.
Ruddick, C. Wesley _ Cincinnati, O.
Sandrock, Howard ___ Belmont, O.
Shafer, Lodena ___ Carrothers, O.
Shipman, Stewart _______ Edison, O.
Shipp, Lester ___________ Kenton, O.
Shultz, LaBerta _____ DeGraff, O.
Shuster, Dorothy _______ LaRue, O.
Sigler, Elizabeth ___ Harpster, O.
Stearns, Byron _______ Fostoria, O.
Steiner, Elmer J. _______ Kenton, O.
Steiner, Martha ________ Kenton, O.
Suber, Leola __________ Deshler, O.
Sutermeister, Everett ___ Kenton, O.
Taylor, Elizabeth _____ Lorain, O.
Tecters, Nell ___________ Celina, O.
Tudor, Dorothy _________ Lima, O.
Uhl, Glenn ___________ Venedocia, O.
Underwood, Hope _____ Caledonia, O.
Van Meter, Mareta ___ Beaverdam, O.
Van Orsdall, George ___ Forest, O.
Van Vranken, Mrs. H. D. ___________ Upper Sandusky, O.

            Walker, Alma ___________ Ada, O.
Walters, Audrie __________ Alber, O.
Warner, Pauline _______ Dunkirk, O.
Watkins, Blodwen _______ Lima, O.
Weadock, Mary __________ Lim, O.
Wilcox, Evelyn ________ Ada, O.
Witwer, Lillian _________ Greentown, O.
Wyatt, Ruby __________ Grover Hill, O.
Young, Iva _____________ Anna, O.
Young, William K. _ Belle Center, O.
Younkman, Dale _________ Ada, O.
Younkman, Earl ___ LaFayette, O.
Younkman, Walter __ LaFayette, O.
## COLLEGE OF ENGINEERING

### CHEMICAL

Adams, Robert --------- Elyria, O.  
Cooper, Douglas --------- Portsmouth, O.  
Croft, Maurice --------- Lima, O.  
Cunningham, David --------- Hobart, N. Y.  
Deniston, George L. --------- Lima, O.  
Dice, Henry --------- Somerset, Pa.  
Dickason, Morris --------- Ada, O.  
Early, Clarence --------- Findlay, O.  
Ewing, Charles W. --------- Kenton, O.  
Gerkowski, Alex --------- Cleveland, O.  
Hubbard, Ernest --------- Cannonsburg, Pa.  
Jewell, Robert --------- Lima, O.  
Kline, Russell --------- Gilboa, O.  
Knostman, Roy --------- Lima, O.  
Luke, Leo --------- Fayette, O.  
McKinley, Howard --------- Stone, Vt.  
Noe, Glenn --------- Findlay, O.  
Rogers, Charles --------- Gary, Ind.  
Rundell, James --------- Ada, O.  
Shafer, Wayne --------- Warren, O.  
Sherard, Charles --------- Findlay, O.  
Stratton, George --------- Bluffton, O.  
Susie, Alfred --------- Midland, Pa.  
Tournier, Edward --------- Clifton, N. J.  
Young, Donald --------- New Castle, Pa.

### CIVIL

Achki, Feridun --------- Contantinople, Turkey  
Alpaugh, Elvin --------- Clinton, N. J.  
Aspinwall, Charles --------- Star Junction, Pa.  
Biggs, Robert --------- Elyria, O.  
Bolch, Emmett --------- Weldon, N. C.  
Bowen, Roger --------- Cleveland, O.  
Carrier, Robert --------- Corfu, N. Y.  
Case, Robert --------- Randolph, N. Y.  
Conkey, Guy --------- Shaker Hts., O.  
Core, Edward --------- Bellefontaine, O.  
Craig, Howard --------- Lima, O.  
Derr, Franklin --------- Bethlehem, Pa.  
Dowling, Francis --------- Niagara Falls, N. Y.  
Dunlap, Francis --------- Clark's Summit, Pa.  
Ebner, Otto --------- Lima, O.  
Ellis, Edison --------- Alger, O.  
Ewing, Charles R. --------- Randolph, N. Y.  
Foster, Joe --------- Findlay, O.  
Frame, Rollo --------- Kenton, O.  
Glass, Wilbur --------- Lima, O.  
Grant, Nye --------- Mt. Victory, O.  
Hawk, Alfred --------- Kittanning, Pa.  
Henning, Bertsell --------- Weston, O.  
Hofman, Charles --------- Lima, O.  
Hyde, Charles --------- West Farmington, O.  
Irons, Charles --------- Linesville, Pa.  
Irwin, Frederick --------- Upper Sandusky, O.  
Jacobs, Roy --------- Continental, O.  
Jaffari, Meerza --------- Teheran, Persia  
Jones, Donald J. --------- Salamanca, N. Y.  
Kimble, Harold --------- Clark's Green, Pa.  
Kob, John --------- Pardoe, Pa.  
Laur, Arthur --------- Niagara Falls, N. Y.  
Life, Harry --------- Elyria, O.  
Lundberg, Herman --------- Pittsfield, Mass.  
McCready, Henry --------- Circleville, O.  
MacCallum, J. D. --------- Lima, O.  
MacLaren, Donald --------- Niagara Falls, N. Y.  
Mehnert, Lawrence --------- Kensington, O.  
Melkersson, Nils --------- Cleveland, O.  
Mendez, J. Hector --------- Santurce, P. R.  
Moorehead, Max --------- Findlay, O.  
Muckinhtaupt, Melvin --------- Cambridge Springs, Pa.
<table>
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<td>Rickenberg, Edward</td>
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<td>Schmidt, Manuel</td>
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<td>Stein, Robert Lee</td>
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**ELECTRICAL**

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### MECHANICAL

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### COLLEGE OF LAW

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<td>Abramson, Jacob J.</td>
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Ebner, Francis — Ada, O.
Eisenberg, Sidney — Cleveland, O.
Ewing, Claude — Cambridge, O.
Fels, Lowell — Toledo, O.
Fetterman, Sol — Cleveland, O.
Gerhardt, George — Circleville, O.
Gerros, Peter — Canton, O.
Glaros, Thomas — Youngstown, O.
Glashart, Clifford — Findlay, O.
Godwin, Ralph — Bellefontaine, O.
Gutknecht, John — Fostoria, O.
Harre, Paul — Kane, Pa.
Hayes, Robert — Springfield, O.
Hervey, Brandt — Martins Ferry, O.
Holbein, William H. — Zanesville, O.
Iddings, J. William ——— St. Clairsville, O.
Iwinski, Chester — Toledo, O.
Johnson, Virgil — Lima, O.
Jones, Thomas P. — Ada, O.
Kelso, John — New Lexington, O.
Kennedy, Neil — Chicago, Ill.
Lawrence, Alfred — Ravenna, O.
Layton, Bernice — Toledo, O.
Lease, Charles — Kenton, O.
Leuthold, Ruth — Bucyrus, O.
Levine, Max — Dayton, O.
Lewis, Robert ——— Toledo, O.

Lipski, Harry ——— Toledo, O.
Lyman, Floyd ——— Kenton, O.
McBride, Thomas J. — Youngstown, O.
McNamara, George — Marion, O.
Modarelli, James — Girard, O.
Morean, Robert — Springfield, O.
Morrow, William ——— Toronto, O.
Murphy, John ——— Lima, O.
Navaroli, August — McKeeseport, Pa.
Passen, William ——— Elyria, O.
Peters, James ——— Youngstown, O.
Pratt, Arvillia — Cleveland, O.
Rice, Raymond — New Philadelphia, O.
Rivers, Willard ——— Toledo, O.
Robertson, Donald — Warren, O.
Ross, Michael ——— Canton, O.
Schurman, Christian — Lakewood, O.
Silbaugh, Verne — Lancaster, O.
Stickles, Edward — Pittsfield, Mass.
Suchland, Everett — St. Marys, O.
Summers, Samuel ——— Ravenna, O.
Taylor, George ——— Youngstown, O.
Thomas, Mozelle ——— Ada, O.
Welsh, Edward ——— Youngstown, O.
Williams, Wayne ——— Elyria, O.
Wilson, Robert ——— Ada, O.
Wysocki, Clifford ——— Toledo, O.

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Andorka, Joseph ——— Canton, O.
Asman, Luther ——— Marysville, O.
Atkins, Lester ——— Cleveland, O.
Barry, Ray ——— McKeeseport, Pa.
Barton, Raymond — Cridersville, O.
Bartram, Robert ——— Ashtabula, O.
Bassichis, Jack ——— Cleveland, O.
Benke, Stanley ——— Cleveland, O.
Berardi, Anthony ——— Youngstown, O.
Bernhart, Fred — Martins Ferry, O.
Bianchi, Victor ——— Galion, O.
Binau, Clarence ——— Upper Sandusky, O.
Blostein, Abe ——— Cleveland, O.
Bowe, Randolph ——— Canton, O.
Brysacz, John ——— Cleveland, O.
Burke, John R. — Lowellville, O.
Burke, Robert M. ——— Dayton, O.
Butch, Felix ——— Leetonia, O.
Carey, Thomas J. ——— Girard, O.
Chaky, Francis ——— Cleveland, O.
Charles, Joseph ——— Columbus, O.
Christopher, Thomas — Greenfield, O.
Cieslak, Walter ——— Cleveland, O.
Clifford, Robert ——— McDonald, O.
Coco, Frank ——— Cleveland, O.
Cotner, Robert ——— Ada, O.
Cramer, Bernard ——— Cleveland, O.
Davis, A. Donovan ——— Lima, O.
Dawson, Herbert ——— Akron, O.
Deisher, Richard ——— Lakewood, O.
Demarsh, Louis — Lowellville, O.
Detwiler, Paul  ----  Kenton, O.
Disner, Martha  ----  Cleveland, O.
Dombeck, Henry  ----  Cleveland, O.
Domizi, David  ----  Cleveland, O.
Downs, Tommy  ----  Bryan, O.
Dworken, Leo  ----  Cleveland, O.
Early, Margaret  ----  Lima, O.
Eirick, Evelyn  ----  Van Wert, O.
Elsasser, Glen  ----  Bryan, O.
Erick, Harry  ----  New Haven, Ind.
Falzone, Peter  ----  Cleveland, O.
Farley, Edwin  ----  Cleveland, O.
Faroga, Leon  ----  Niles, O.
Field, Charles  ----  Cuyahoga Falls, O.
Finer, Harry  ----  Cleveland, O.
Franke, Albert  ----  Bellaire, O.
Frye, Carl  ----  Newark, O.
Gallo, Frank  ----  Cleveland, O.
Gelb, Theodore  ----  East Cleveland, O.
Gindlesberger, Floyd  ----  Millersburg, O.

Gliemmo, Joseph  ----  Lowellville, O.
Hafczuk, Witold  ----  Cleveland, O.
Hahn, William  ----  Zanesville, O.
Hanley, Paul  ----  Galion, O.
Harmer, Thomas  ----  Danville, O.
Harp, Frank  ----  Dayton, O.
Hart, Honor  ----  Sterling, O.
Hawkins, Calvin  ----  Fostoria, O.
Headley, Elinor  ----  Dexter City, O.
Herron, Don  ----  Zanesville, O.
Horwitz, Herman  ----  Cleveland, O.
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Huguenin, Victor  ----  Payne, O.
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Hurless, Maxine  ----  Willshire, O.
Johnson, Frank  ----  Cleveland, O.
Kaplan, Joseph  ----  Cleveland, O.
Katz, Abe  ----  College, O.
Katz, Morris  ----  Cleveland, O.
Keen, Donald  ----  Clarks Summit, Pa.
Kittle, Lionel  ----  Akron, O.
Koch, Sanford  ----  Cleveland, O.
Koehler, Raymond  ----  Upper Sandusky, O.
Kohen, Charles  ----  Cleveland, O.
Koldzik, Henry  ----  Cleveland, O.
Kopczinski, John  ----  Cleveland, O.

Krisik, Irene  ----  Fairport Harbor, O.
Lapidus, Irvin  ----  Youngstown, O.
Lefkowitz, Ernest  ----  Cleveland, O.
Leicy, Herbert  ----  Bucyrus, O.
Levine, Benjamin  ----  Cleveland, O.
Levy, Charles  ----  Cleveland, O.
Levin, Sidney  ----  Cleveland, O.
Lindau, Maurice  ----  Napoleon, O.
Livingston, Ralph  ----  Richwood, O.
Lyons, James  ----  Sandy Lake, Pa.
McCarthy, Edward  ----  Apple Creek, O.
Mandel, Lodi  ----  Cleveland, O.
Marckese, Samuel  ----  Cleveland, O.
Margolis, Allen I  ----  Akron, O.
Michalec, Bronislaus  ----  Akron, O.
Miller, Wade William  ----  Sandusky, O.
Morgan, Charles  ----  Martins Ferry, O.
Moseley, Roy  ----  Niles, O.
Newbold, Edward  ----  Kenton, O.
Newman, Sanford  ----  Cleveland, O.
Panfiel, Phillip  ----  Cleveland, O.
Parrino, John  ----  Cleveland, O.
Paul, Robert  ----  New Bremen, O.
Perlman, Albert  ----  Cleveland, O.
Pew, Douglass  ----  Cleveland, O.
Phillips, Donald  ----  Bucyrus, O.
Pitkowsky, Isadore  ----  Cleveland, O.
Ports, W. G.  ----  Huntsville, O.
Powers, Donald  ----  Youngstown, O.
Primmer, Harold  ----  Lima, O.
Radenbaugh, John  ----  Payne, O.
Raeburn, Danny  ----  Warren, O.
Richard, Richard  ----  Cleveland, O.
Ridgeway, Ray  ----  Wheeling, W. Va.
Riggs, Frank  ----  Cleveland, O.
Roberts, Carlton  ----  Dalton, O.
Robinson, John  ----  Youngstown, O.
Rudolph, Philip  ----  Cleveland, O.
Ruxin, Albert  ----  Cleveland, O.
Schaal, William  ----  Logan, O.
Scheer, Frank  ----  Cleveland, O.
Schmidt, Carl  ----  Dayton, O.
Schnederman, Meyer  ----  Cleveland, O.
Shepard, Earl  ----  Arcadia, O.
Shoemaker, Edgar  ----  Akron, O.
Shumaker, Robert  ----  Upper Sandusky, O.

Siegel, Morris  ----  Cleveland, O.
Siegel, Harold  Cleveland, O.  Valentl, Basilio  Garfield Hts. O.
Smith, Eula Linda  Fremont, O.  Van Keuren, Charles  Cleveland, O.
Smith, L. Roscoe  Ada, O.  Von Duyke, Frank  Cleveland, O.
Smith, Ross P.  Ada, O.  Wagner, Walter  Zanesville, O.
Smith, William James  Steubenville, O.  Warren, Arthur  Cleveland, O.
Sorgen, Herman  Kenton, O.  Warren, Gerald  Cleveland, O.
Souders, Edgar  Crooksville, O.  Weinberg, Elmer  Cleveland, O.
Speice, Clarence  Cleveland, O.  Weiss, Joseph  Akron, O.
Speice, George  Cleveland, O.  Weiss, William  Cleveland, O.
Stringer, David  Girard, O.  Wilder, Milton  Niles, O.
Summers, Roland  Oberlin, O.  Wilson, Frederick  Steubenville, O.
Tannenhill, William  Sterling, O.  Winkler, William  Dover, O.
Tittle, William  Akron, O.  Wise, Roy  Van Wert, O.
Treby, William  Marion, O.  Wolgamot, Dean  Alger, O.
Turner, George  Ashtabula Harbor, O.  Wonser, Frederick  Bryan, O.
      Ashtabula Harbor, O.  Wright, Volney  DeGraff, O.
Turner, John  Niles, O.  Youll, James  Niles, O.
      Zugsda, George  Cleveland, O.

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Fisher, Helen  Ada, O.  Nagel, Esther  Upper Sandusky, O.
Irick, Betty  Ada, O.  Powesky, Max  Cleveland, O.

Special Music

Aberle, Genevieve  Dunkirk, O.  Gibson Donovan  Ada, O.
Arbogast, Betty  Ada, O.  Hall, Billy  Ada, O.
Baum, Anna  Ada, O.  Hare, Janet  Ada, O.
Bauman, John  Ada, O.  High, Alice  Ada, O.
Betz, Alice  Ada, O.  Hofer, Rosemary  Ada, O.
Binkley, Lowell  Ada, O.  Hubbell, Charles  Ada, O.
Binkley, Marie Annabell  Ada, O.  Huber, Evan  Ada, O.
Brewer, John Arthur  Ada, O.  Huber, Hope  Ada, O.
Burns, Cosetta  Kirby, O.  Hune, Margaret  Forest, O.
Burns, Lillian  Kirby, O.  Jamison, Herbert  Ada, O.
Burris, Mac  Ada, O.  Johnson, Billie  Kenton, O.
Butler, Bernard  Ridgeway, O.  Johnson, Wilbur  Ada, O.
Calvert, Ethel Miller  Alger, O.  Jones, Irene Elizabeth  Ada, O.
Carpenter, Mary Lou  Ada, O.  Kennedy, Roberta  Ada, O.
Clark, Doris  Alger, O.  King, Kathryn  Ada, O.
Clark, Lloyd  Alger, O.  McElroy, Robert  Ada, O.
Cole, Martha Helen  Ada, O.  McElwain, Eleanor  Ada, O.
Doling, Margaret  Ada, O.  McElwain, Maxine  Ada, O.
Eddy, Norma Jean  Ada, O.  Mitchell, Ruth  Ada, O.
Fisher, Charles  Ada, O.  Moench, Kathryn  Kenton, O.
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Baker, Katherine  Ada, O.
Dustin, Almira  Galena, O.
Earl, Howard  Ada, O.
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Marshall, Glenn  Ada, O.
Michael, Bess  Ada, O.
Motter, Gladys  Ada, O.
Phillips, Jay  Chicago, Ill.
Reese, Kathryn  Ada, O.
Rettig, Eunice  Arlington, O.
Shepherd, Sylvia  Lakewood, O.

Special Fine Art

Deming, Jane  Ada, O.
Searson, Mrs. Arden  Ada, O.
Morris, Clay  Ada, O.
Uhl, Joseph  Sharon, Pa.
Geographical Distribution, 1929-1930
(Fall Quarter, 1929 to Spring Quarter, 1930, Inclusive)

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### OHIO NORTHERN UNIVERSITY
### ADA, OHIO

#### Application for Admission

I hereby apply for admission to your

College of ................................................ Liberal Arts, Engineering, Law, Pharmacy

at the opening of the ................................ Quarter, 193...

Fall, Winter, Spring, Summer

I am interested in the following Department (Please check):

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Name in full..............................................

Street Address...........................................

City............................................. State...

Parent or Guardian....................................

Address ..............................................

High School...........................................

Date of Graduation...................................

High School Principal..............................

Address ..............................................
THE LOCATION OF ADA RELATIVE TO IMPORTANT NATIONAL HIGHWAYS

DISTRIBUTION BY COUNTIES OF THE 1,466 OHIO STUDENTS DURING THE YEAR 1928-29
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