OHIO NORTHERN UNIVERSITY
BULLETIN

CATALOGUE

JANUARY 1929
FACULTY COMMITTEES
1929-30

ACADEMIC COUNCIL: Williams, Deans and Registrar
ADMINISTRATIVE COUNCIL: Williams, Bailey, Smull, G. L. Smith
ADMISSION: Huber, Needy, Whitworth
ARTISTS-LECTURE: Smull, Fairchild, Deming, Harrod, Phillips
CALENDAR: Weber, Wilder
CATALOG: Freeman, Huber, Smull
CHAIR: Potter, Whitted, Evans, Weber, Campbell
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 DEGRES: 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
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
STUDENT WELFARE: Weber, Geeting, Wilder, Davis, M. Auten, Haley, Potter
SUMMER SCHOOL: Loy, Smull, Freeman, Huber, Berger.
LIFE SERVICE: Van Buren, Burke, Davis, Elliott, Potter.

Please add to your previous list of committees, the following:

VOCATIONAL GUIDANCE: Gray, Holycross, Potter.

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Calendar, 1929

Spring Quarter
March 11, Monday...Entrance Examination and Registration
March 12, Tuesday (8:30 A. M.)...Convocation and Classes
April 9, Tuesday........................................Founder’s Day
May 6 to May 9..........................................Preregistration Week
May 12, Sunday............................................Junior-Senior Vespers
May 23, 24, Thursday, Friday.....................Final Examinations
May 24, (9:30-10:00 A. M.).........................Final Convocation
May 25, Saturday.........................................Alumni Day
May 26, Sunday...........................................Baccalaureate Day
May 27, Monday..........................................Class Day
May 27, Monday...Annual Meeting of the Board of Trustees
May 28, Tuesday.......................................Commencement Day

Summer Quarter
June 3, 4, Monday, Tuesday..............................................Entrance Examinations and Registration
June 5, Wednesday (8:30 A. M.)....Convocation and Classes
July 12, Friday........................First Special Summer Term Ends
July 15, Monday........Second Special Summer Term Begins
August 5 to August 8..............................Preregistration Week
August 16, 17, Friday, Saturday........Final Examinations
August 17, Saturday........................Summer Quarter and Second
Special Summer Term End

Fall Quarter
September 9, Monday........................Freshman Registration
September 10, Tuesday..........................Freshman Tests
September 10, Tuesday..........................Upper Class Registration
September 11, Wednesday (8:30 A. M.)...........................................Convocation and Classes
October 19, Saturday............................Homecoming Day
November 18 to November 21...........Preregistration Week
November 25, 26, Monday, Tuesday........Final Examinations
November 26, Tuesday (5:30 P. M.).....Fall Quarter Ends

Winter Quarter
December 2, Monday..........................Entrance Examinations and Registration
December 3, Tuesday (8:30 A. M.)..Convocation and Classes
December 20, Friday, (5:30 P. M.)..............................Christmas Vacation Begins
December 26, Thursday..........................Mid-Year Meeting of Board of Trustees

1929-30
January 6, Monday (7:30 A. M.)..Christmas Vacation Ends
February 24 to February 27...........Preregistration Week
March 5, 6, Wednesday, Thursday.....Final Examinations
March 6, Thursday..............................Winter Quarter Ends

Spring Quarter
March 10, Monday...Entrance Examinations and Registration
March 11, Tuesday (8:30 A. M.)...Convocation and Classes
April 9, Wednesday..........................Founder’s Day
Board of Trustees

Elected by the Conference

Initus | Exitus
--- | ---
1924 | REV. DAVID F. HELMS, D.D. Lima, 1929
1918 | MR. EDGAR J. BROOKHART, LL.B. Celina, 1929
1919 | MR. W. W. MORRAL Morral, 1930
1999 | HON. S. A. HOSKINS, LL.B. Columbus, 1930
1922 | MR. E. C. EDWARDS Toledo, 1931
1922 | MR. E. E. McALPIN Ada, 1931
1924 | DR. A. S. McKITRICK Kenton, 1932
1922 | REV. E. L. MOTTER, D.D. Lima, 1932
1924 | REV. B. F. READING, D.D. Toledo, 1933
1905 | HON. JOHN H. CLARK, LL.B. Marion, 1933

Elected by the Alumni

1919 | HON. JOHN F. KRAMER, LL.B. Mansfield, 1929
1925 | HON. JAMES B. RUHL, M.S., LL.D. Cleveland, 1930
1927 | MR. NORMAN M. STINEMAN, C.E. Chicago, Ill. 1931
1928 | WALTER F. RITTMAN, Ch.E., Ph.D. Pittsburgh, Pa. 1933

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1917 | MR. GEORGE FRANKLIN GETTY, LL.D. Los Angeles, Calif.
1920 | MR. BENJAMIN A. GRAMM, A.M. Lima
1929 | BISHOP EDGAR BLAKE, D.D. Indianapolis, Ind.
1927 | HON. CHARLES H. LEWIS, LL.D. Harpster
1927 | MR. E. C. HARLEY Dayton
1927 | MR. GROVE PATTERSON, A.M. Toledo
1923 | HON. SIMEON D. FESS, A.M., LL.D. Yellow Springs
Committees

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EDGAR J. BROOKHART, Secretary

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WAYS AND MEANS: J. H. Clark, D. F. Helms, E. E. McAlpin, President of the University (ex-officio).

The mid-year meeting of the Board of Trustees takes place during the last week in December.

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

OFFICERS

PRESIDENT - - - James K. Rockey, Lima, O.
VICE PRESIDENT - - Arthur U. Bordner, Canton, O.
SECRETARY-TREASURER - - Thomas J. Smull, Ada, O.
EXECUTIVE COMMITTEE: Paul Bainter, C. C. Carpenter,
Mrs. Ola F. Snyder.

NOMINATION COMMITTEE: Warren F. Hickernell, Strawder A.
Ringer, Alden Elliott.


Directory of Clubs

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AKRON, OHIO—President, E. H. Bridge, 65 West Exchange St., Akron; Vice President, C. C. Lake, 201 S. 7th St., Cuyahoga Falls; Secretary, Ilo Rutter, 221 Spicer St.

BELLEFONTE, OHIO—President, Louis F. Hale; Secretary, Foster F. Wright.

BOSTON, MASS.—President, George B. Gee, 17 Pine St., Belmont, Mass.; Vice President, Willis E. Smith, 49 Western Ave., Beverly, Mass.; Secretary, Mrs. David A. Nelson, 111 Webster St., East Boston.

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CANTON, OHIO—President, J. H. Emsley, First National Bank Building; Secretary, Donald S. Smyth, 619 First National Bank Building.

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LOWER CALIFORNIA—President, Milan Smith, Orange; Vice President, A. S. McAttee, San Fernando; Treasurer, Leo Routson, Sawtell; Secretary, Mrs. Nellie Scoles, 323 N. Howard, Glendale.

CLEVELAND, OHIO—President, E. F. Boyle, 1298 Cleveland Hts. Boulevard; Vice President, S. C. Elliott, 12700 Arliss Drive, Lakewood; Secretary, R. C. Cobbe, 3265 Berkeley Ave., Cleveland Heights.

COLUMBUS, OHIO—President, Stanley S. Stewart, 1143 Broadview Ave.; Vice Presidents, Warden P. E. Thomas, Ohio Penitentiary, and Hon. James A. White; Secretary-Treasurer, Clyde C. Moyer, 355 E. Dunedin Road.

DAYTON, OHIO—President, Morris Rice, Osborn, Ohio; Vice President, Prof. N. H. Stull, 2123 W. Second St., Dayton; Acting Secretary, Emil Baumann, 100 Richmond, Dayton.

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FORT WAYNE, IND.—President, Victor Kring, 3904 S. Calhoun; Vice President, Mary Helen Ley, 303 W. Jefferson; Secretary-Treasurer, George D. Frohnapfel, 4414 Pembroke.

FREMONT, OHIO—President, J. P. Maule; Acting Secretary, H. E. Ryder, County Superintendent of Schools.

KENTON, OHIO—President, Foster King; Secretary, Charles Hill.
LIMA, OHIO—President, Neal Lora, 405 Citizens Bldg.; Vice President, Laura Gerkey-Ash, 330 S. Charles St.; Secretary, Edna McPherson, 709 W. Wayne.

MARION, OHIO—President, C. R. Leavens, 191 Wildwood Ct.

NAPOLEON, OHIO—President, Ferd Behrens; Secretary, Mrs. Nora Pontius.

NEW YORK—President, W. F. Hickernell, 68 Williams St.; Secretary, James J. Pilliod, 15 Dey Street.

PAULDING, OHIO—President, Stephen S. Beard; Secretary, Orlea Wahl, Payne, Ohio.

PITTSBURGH, PA.—President, S. A. Ringer, 33 Pasadena; Vice President, Miss Carrie Wiseley, 4514 Centre Ave.; Secretary-Treasurer, John A. Slonaker, 625 Greendale Ave., Edgewood, Pa.

PORTLAND, OREGON—President, C. C. Hockley, N. W. Bank Bldg.; Vice President and Secretary, E. R. Walsh, Lewis Bldg.

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VAN WERT, OHIO—President, D. R. Bendure; Secretary-Treasurer, Opal Welker, c/o Y. W. C. A.

WAUSEON, OHIO—President, Frank H. Reighard; Secretary, Clyde L. Canfield.

MAHONING VALLEY (YOUNGSTOWN), OHIO—President, Homer Carlyle, Realty Bldg.; Vice President, Cyrus Samuels, 136 E. Judson Ave.; Secretary, Earl D. Haefner, 1107 Realty Bldg.

CUBA—President, Dr. F. M. Pedrosa, Placetas; Secretary, Dr. Julio M. Garcia, Placetas.
Administrative Officers and Staff

*ALBERT EDWIN SMITH, D.D., PH.D., LL.D. President
On the William W. and E. Claude Edwards Foundation

**ROBERT WILLIAMS, A.M., D.D. President-Elect

DAVID HOMER BAILEY Vice President

THOMAS JEFFERSON SMULL Assistant to the President

MARGARET ELEANOR WHITWORTH Registrar and Entrance Examiner

GUY LAWTON SMITH Treasurer

HERMAN JACOB WEBER Dean of Men

MARY LEOTA HERRING Dean of Women

HARVEY EVERT HUBER Dean of the College of Liberal Arts

FRANK LEWIS LOY Dean of the College of Education

JOHN ALFRED NEEDY Dean of the College of Engineering

WILLIAM PRICE HENDERSON Dean of the College of Law

RUDOLPH HENRY RAABE Dean of the College of Pharmacy

MARK EVANS Dean of the College of Music

EMMETT ELIJAH LONG Director of the School of Commerce

RICHARD HOLMES Schoonover Secretary of the Faculty

Flo Cronbaugh Secretary to the President

MILDRED HULLINGER CRAMER Assistant Registrar

MARY ELIZA THOMAS Librarian

ERNEST ROY MILLER Physical Director

GUY S. WILCOX School Physician

RUTH GALLANT CRIPPS Secretary to the Treasurer

OLLIE HENRY RUNSER Office Assistant

MARIAN ENSIGN MILLER Office Assistant

HELEN MARTIN Office Assistant

JOHN AUSTIN POTTER General Secretary of Y. M. C. A.

MARY AUTEN Faculty Adviser of Y. W. C. A.

WARREN FAYETTE HICKERNELL Editor of Alumni Magazine

MICHAEL MAZZULLA, JR. Director of University Band

GEORGE QUINLIN McNAMARA Director of Publicity

WILLIAM OBERLIN Custodian of Buildings

CARL THOMAS TALLMAN Custodian of Department of Physical Education

ALVA ERNEST ROCKWELL Farm Superintendent

PAUL RUNSER Power Plant Operator

* On leave the year of 1929-30.

** Acting President 1929-30.
Faculty and Officers of Instruction

*ALBERT EDWIN SMITH, D.D., PH.D., LL.D. 502 S. Johnson
President on the William W. and E. Claude Edwards Foundation.
President of Ohio Northern, (1905—).
A.B. Ohio Wesleyan, 1887; Ph.D. 1898; D.D. 1906.
LL.D., Ohio Northern, 1927; LL.D., Asbury College, 1928.

**ROBERT WILLIAMS, A. M., D. D. 502 S. Johnson
President-elect of Ohio Northern (1929—).
A.B., Wesleyan University, 1911; A.M., Boston University, 1927; D.D., Albion College, 1921.

(Alphabetically Arranged)

JAMES W. ALLCROFT 125 E. Highland
Instructor in Drawing (1926—)
B.S. Ed., Ohio Northern, 1928.

MARY AUTEN, A. M. 411 N. Main
Assistant Professor of Biology (1927—).
A.B., Bluffton College, 1920; A.M., Ohio State University, 1922; Graduate Student, Cold Spring Harbor, 1924.

DAVID HOMER BAILEY, B. S., D. D. 206 E. Highland
Vice President (1925—).
B.S., Ohio Normal University, 1886; D.D., Ohio Northern, 1906.

FRANK LEWIS BERGER, A.B., B.S. 121 E. Lehr
Professor of Physics (1911—)
Acting Dean George Franklin and Sarah Catherine Getty College of Liberal Arts, (1926-1928)
Sub-Freshman Adviser, (1921—).
A.B., Ohio Northern, 1910; B.S., University of Chicago, 1914; Graduate Student Ohio State University, Summer Sessions, 1925 and 1928.

WILFRED ELLSWORTH BINKLEY, B. S., A. M. 803 Union
Professor of Political Science and Economics (1921—)
B.S., Ohio Northern, 1907; A.B., Antioch, 1910; A.M., Ohio State, 1926.

* On leave year of 1929-30.
** Beginning September 9, 1929.
Eldon Ray Burke, A.B., A.M. 619 Union
Professor of History (1927—).
A.B., Manchester College, 1922; A.M., University of Chicago, 1926.

Ivor St. Clair Campbell, M.E., E.E. 409 S. Johnson
Professor of Mechanical Engineering (1921-1926).
Professor of Electrical Engineering (1926—).
B.S. in M.E., Ohio Northern, 1917; M.E., Ohio Northern,
1918; E.E., Ohio Northern, 1919; Ohio State University,
Summer Session, 1928.

Marshall E. D. Close, B. S. in Pharm. 619 Union
Instructor in Pharmacy (1928—).
B.S. in Pharm., Ohio State University, 1928.

Mildred Hullinger Cramer, A.B. 221 E. University
Assistant Registrar (1924—).
A.B., Ohio Northern, 1924.

Flo Cronbaugh, G. Sten. 516 S. Simon
Secretary to the President (1912—)
Notary Public; G. Sten., Ohio Northern, 1911.

Ben Franklin Culler, B.S. 720 S. Gilbert
Instructor in Modern Language (1928—).

Martelle Elliott Davis, A.M. 511 S. Gilbert
Professor of Modern Languages, (1921—).
A.B., Ohio Wesleyan, 1897; A.M., University of Washing-
ton, 1916; Graduate Student, Europe, 1902; Chicago,
1903; University of Washington, 1915-1916: 1916-1917;
Summer, 1918; 1920-21.

A. Cliffe Deming, A.B., B.O. 601 S. Main
Professor of Public Speaking,
(1901-02; 1907-17; 1920—).
Director of School of Expression, (1912-17).
B.O., Ohio Normal, 1899; A.B., Ohio Normal, 1900;
Graduate, Emerson School of Oratory, 1903.

Raymond Anson Dobbs, B.S., A.B., M.S. 620 Union
Assistant Professor of Biology, (1926—).
B.S., Ohio Northern, 1917; A.B., Ohio State University,
1920; M.S., Ohio State University, 1922.

Guy Herbert Elbin, C.E. 764 N. Main
Professor of Civil Engineering, (1919—).
Acting Dean, College of Engineering, (1924-25).
B.S. in C.E., Ohio Northern, 1916; C.E., Ohio Northern,
1920.
Ethel Elliott, G. C. S., B. S. in Ed.
Instructor in Stenography and Typewriting, (1923—)
Wheaton College, 1920-22; Gregg School of Shorthand, Summer, 1923; B. S. in Ed., Ohio Northern, 1929.

Mark Evans, Mus. B.,
Professor of Voice, (1926—).
Dean of A. D. Juilliard College of Music, (1926—).

Alfred M. Ewing, A. B., M. S.
Instructor in Chemistry, (1928—).
A. B., Rio Grande College, 1921; M. Sc., Ohio State University, 1928.

John Theodore Fairchild, Ph. M., C. E.
Professor of Mathematics, (1921—).
A. B., Ohio Normal, 1895; Ph. M., Carnegie Institute, 1902; C. E., Ohio Northern, 1904; Graduate Student, University of Chicago, Summer Sessions, 1921, 1924, and 1927.

Childe Harold Freeman, B. S., Lit. D.
Professor of English Literature, (1910—), on the John Davison Chair of English Literature.
B. S., Ohio Normal, 1901; Lit. D., Taylor University, 1924.

Lawrence Freeman, A. B.
Instructor in English, (1927—).
A. B., Ohio Northern University, 1927; Graduate Student, University of Michigan, Summer Session, 1928.

Roy Eugene Geeting, B. S., A. M.
Assistant Professor of Economics and Business Administration, 1926—).
B. S., Miami University, 1915; A. M., University of Michigan, 1926; Ohio State University, Summer Session, 1928.

Winona Pearl Geeting, B. S. in Ed., A. M.
Professor of Education, (1927—).
Normal Diploma, Teachers' College, Miami University, 1916; B. S. in Ed., Miami University, 1917; M. A., Ohio State University, 1927.
WALTER GRAY, A. M. 615 Union
Professor of Psychology, (1920—).
B.S. in Ed., Ohio Northern, 1915; A.M., Ohio State University, 1918.

MAUD M. HALEY, B. S. in Ed., A. M. 109 W. Lehr
Professor of Education, (1928—).
B.S. in Ed., Ohio State University, 1922; A.M., Ohio State University, 1926; New York University, 1927-28.

HARRY LEE HAMSHER, PH. G. 311 S. Johnson
Professor of Pharmacognosy, (1919—).
Ph. G., Ohio Northern, 1918.

JESSE RAYMOND HARROD, B. S., M. S. 112 S. Johnson
Professor of Chemistry, (1929—).
B.S.in Ed., Ohio Northern, 1918; B.S., Ohio Northern, 1919; M.S., Ohio State University, 1925.

MARY LEOTA HERRING 109 W. Lehr
Dean of Women, (1924—).

WILLIAM PRICE HENDERSON, A. B., LL. D. Kenton, Ohio
Professor of Law, (1921—).
Dean of Warren G. Harding College of Law, (1921—)
A.B., Ohio Wesleyan, 1888; LL.D., Taylor University, 1923.

HARMON WILSON HOLYCROSS, B. S., M. S. 702 S. Johnson
Assistant Professor of Education, (1927—).
B.S., Ohio Normal, 1894; M.S., Ohio Northern, 1898.

HARVEY EVERT HUBER, A. M. 724 Union
Professor of Biology, (1913-17); (1919—).
Dean of George Franklin and Sarah Catherine Getty College of Liberal Arts, (1920—).
A.B., Ohio Northern, 1909; A.M., Yale University, 1912; University of Wisconsin, Summer Session, 1920.

ELLA IRICK 226 E. Lincoln
Instructor in Piano, (1927—).

WILLIAM PETER LAMALE, MUS. B. 312 W. Buckeye
Professor of Piano and Organ, 1916-19; 1923—).
Mus.B., Oberlin College Conservatory, 1910; Student with Tobias Matthay and Matilda Verne, London, 1914-1915; Student Piano, Ernest Hutcheson, Summer, 1921, Lake Chautauqua; Student in Conducting, Columbia University and Piano Student of Edwin Hughes, Summer of 1928.
EMMET Elijah Long, B. C. S.  
Professor of Commercial Science, (1907—).  
Director of School of Commerce, (1918—).  
Student at Zanebian Art College, 1909; B. C. S., Ohio Northern, 1911.

Frank Lewis Loy, B. S. in Ed., A. M.  
Dean, College of Education, (1928—).  
Director of Teacher Training, (1927-28).  
B. S. in Ed., Ohio Northern, 1919; University of Chicago, Summer Session, 1922; A. M., Columbia University, 1928.

Jesse Elmer McMullan, Ph. B., Ph. M., Ph. D.  
Assistant Professor of English, (1926—).  
Ph. B., DePauw University, 1894; Ph. M., Syracuse, 1903; Ph. D., Mt. Union, 1907.

Michael Mazzulla, B. S. in Chem. E.  
Director of University Band.  
Professor of Brass and Reed Instruments, (1921—).  
B. S. in Chem. E., Ohio Northern, 1921; Pupil of Sig. Francesco Coppa, 1908-1911; Pupil of Sig. Ernesto Ortone, 1914-1917.

William Forest Meredith, Ph. B.  
Assistant Professor of Physical Education, (1926—).  
Ph. B., Denison, 1921.

Ernest Roy Miller, A. B.  
Director of Physical Education, (1928—).  
A. B., University of Kentucky, 1927; Graduate Student, University of Kentucky, 1927-28.

Aleen Kahle Mowen  
Instructor in Public School Music, (1925—).  
Graduate Public School Music, Cornell University, 1918; Student, New York University, Summer, 1925; Voice student of Hugh Owen, Helen Allen-Hunt and Harold Luckstone; Ohio State University, Summer Session, 1928.

John Alfred Needy, M. S. in M. E.  
Professor of Mechanical Engineering,  
Dean of College of Engineering, (1926—).  
B. S. in M. E., University of Kentucky, 1911; M. S. in M. E., Purdue University, 1922.
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAUDE WESTCOAT PETTIT, A.B., LL.B.</td>
<td>418 Union</td>
<td>Professor of Law, (1925—). A.B., Ohio State University, 1911; LL.B., Western Reserve University, 1916.</td>
</tr>
<tr>
<td>MARY PHILLIPS, MUS. B.</td>
<td>714 S. Main</td>
<td>Instructor in Piano, (1928—). Mus.B., Chicago Musical College, 1928; Student with Ernest Hutcheson, Summer, 1920; Percy Grainger, Summer, 1928.</td>
</tr>
<tr>
<td>JOHN AUSTIN POTTER, B.S., B.D.</td>
<td>228 E. North</td>
<td>General Secretary Y. M. C. A., (1925—). Assistant Professor of Religious Education, (1925—). Curator of Museum, (1926—). B.S., Ohio Northern, 1921; B.D., Garret Biblical Institute, 1923; Graduate Student, University of Chicago, Summer Session, 1928.</td>
</tr>
<tr>
<td>RUDOLPH HENRY RAABE, PH.G., PH.C.</td>
<td>316 S. Gilbert</td>
<td>Professor of Pharmacy, (1911—). Dean of College of Pharmacy, (1917—). Ph.G., Ohio Northern, 1910; Ph.C., 1911.</td>
</tr>
<tr>
<td>ELMER E. RAY, A.M.</td>
<td>622 S. Johnson</td>
<td>Professor of Education, (1925—). Acting Dean, College of Education, (1927-28). B.S., Ohio Northern, 1903; A.M., Ohio State University, 1919; Ohio State University, Summer Session, 1924.</td>
</tr>
<tr>
<td>CLARA EVE SCHIEBER, B.S.IN ED., A.M., PH.D.</td>
<td>414 S. Main</td>
<td>Assistant Professor of History, (1928—). B.S.in Ed., Ohio University, 1916; A.M., Clark University, 1918; Ph.D., Clark University, 1920.</td>
</tr>
<tr>
<td>RICHARD HOLMES SCHOONOVER, A.M., B.D.</td>
<td>425 S. Main</td>
<td>Professor of Ancient Languages, (1901—). Secretary of the Faculty, (1914—). A.B., Northwestern Ohio Normal School, 1884; A.M., 1887; A.B., Ohio Wesleyan, 1888; B. D. Drew Theological Seminary, 1889; University of Oregon, Summer Session, 1928.</td>
</tr>
<tr>
<td>LENIX CRAIG SLEESMAN, PH.G., PH.C.</td>
<td>723 Union</td>
<td>Professor of Chemistry, (1906—). Ph.G., Ohio Northern, 1905; Ph.C., 1906.</td>
</tr>
</tbody>
</table>
EDWIN VERGON SMITH, A.B., LL.B. 521 S. Gilbert
Professor of Law, (1922—).
A.B., Ohio Northern, 1910; LL.B., Ohio Northern, 1914; Graduate Student, Columbia University, Summer Session, 1927.

GUY LAWTON SMITH, B.S. IN ED. 618 S. Main
Treasurer, (1922—).
Entrance Examiner, (1922-27).
B.S. in Ed., Ohio Northern, 1921.

THOMAS JEFFERSON SMULL, ARCHT., C.E., ENG. D. 301 S. Main
Assistant to the President, (1928—).
Executive Secretary, (1918-28)
Dean, College of Engineering, (1905-18).
C.E., Ohio Northern, 1904; Archt., 1906; Graduate Student, University of Michigan, 1904; Lafayette College, 1906; Eng. D., Oglethorpe University, 1921.

MARY ELIZABETH THOMAS, B.S. 422 S. Gilbert
Librarian, (1919—).
B.S., Ohio Normal, 1894.

VERNON VAN BUREN, B.S., B.D. 614 Union
Professor of Religious Education, (1924—), on the Theodore S. Henderson Chair of Religious Education.
B.S., Northwestern University, 1922; B.D., Garrett Biblical Institute, 1924; Graduate Student, University of Chicago, Winter Session, 1924.

ALEXANDER RAFFEN WEBB, C.E. 316 S. Johnson
Professor of Civil Engineering, (1924—).
B.S. in C.E., Armour Institute of Technology, 1908; C.E., Armour Institute, 1913.

ALICE ENSIGN WEBB 316 S. Johnson
Instructor of Fine Arts, (1928—).
Director of School of Fine Arts, (1926-28).
Art Institute of Chicago, 1904-1908; Chicago School of Fine Arts, Normal Work, 1909.
HERMAN JACOB WEBER, A.B., LL.B. 126 E. Highland

Professor of Law, (1921—).
Dean of Men, (1927—).
A.B., Heidelberg, 1912; LL.B., Western Reserve University, 1915; Graduate Student, Columbia University, Summer Sessions, 1927 and 1928.

JAMES ALBERT WHITTED, PH. B., A. M. 219 W. Highland

Professor of Mathematics, (1923—).

MARGARET ELEANOR WHITWORTH, B. S. 219 E. Montford

Registrar, (1917—).
Entrance Examiner, (1927—).
B. S., Geneva College, 1894.

WALTER PETER WILHNGANZ, MUS. B. 714 S. Main

Instructor in Violin, (1928—).
Mus.B., Chicago Musical College, 1922; Student with Max Fischel, Spring, 1923; Franz Kneisel and Arthur Hartmann, 1925-26.

HELEN WILLIS, MUS. B. 610 S. Main

Instructor in Modern Languages, (1925—).
B. Mus., Ohio Wesleyan, 1919; Graduate Student, Cincinnati Conservatory, 1920-21-’22; Arts Student, Converse College, 1923; Music and Language Study, Spain, 1924.

CHARLES GUY ZIMMER, B. S. IN ED. 321 W. University

Instructor in Physical Education, (1927—).
B. S. in Ed., Ohio University, 1927.
PERSONNEL OF THE TRAINING SCHOOL

High School

C. C. Crawford, A. B., A. M.                     Superintendent
O. R. Findley, A. B.                             Principal
William Theisen, A. B.                          Athletic Coach
Clarence E. Gray, A. B.                          Science and History
Mabel Crawford, Ph. B.                           Latin
Vera Barnes, A. B.                               French and Algebra
Charlotte Bossert, A. B.                         History
Mildred Doty, A. B.                             English
Violetta Thompson, A. B.                       Domestic Arts and English
Mary Duncan, A. B.                              Public Speaking and English

Elementary School

Lenna Wehe, Two-Year Normal Diploma 1st Grade
Edith Bowers, Two-Year Normal Diploma 1st Grade
Helen Peterson, Two-Year Normal Diploma 2nd Grade
Mary Eley, Two-Year Normal Diploma 3rd Grade
Margaret Wood Gray, Two-Year Normal Diploma 3rd Grade
Mrs. Hazel Tallman, Two-Year Normal Diploma 4th Grade
Ruby Bowers, Two-Year Normal Diploma 5th Grade
Laura Hutchinson, Three-Year Normal Diploma 5th Grade
Mrs. Clara Irey, Three-Year Normal Diploma 6th Grade
Lillian Beam, Two-Year Normal Diploma 7th-8th Grades
Mrs. Alberta Hawk, B. S. in Ed. 7th-8th Grades
Mrs. Aileen Mowen                               Music
DEPARTMENTAL ASSISTANTS

IN CHEMISTRY
John Jacob Burgbacher
Frederic William Conrade
Dave Kates
Richard Randall Priddy
Clarence Lester Saltsman
Anthony Vitori
Vaughn Edmund Whisker

IN ENGLISH
Geraldine Emalyne Park
Helen Marie Webb

IN FINE ARTS
Alma Stambaugh

IN THE LIBRARY
Florence Barnes
Donald Owen Curtis
Zada Louise Gray
Julius Herchig
Willis Himebaugh
Georgia Moore
Helen Elizabeth Scott

IN PHARMACY
Hugh Cramer
Edna Carolina Haury
Paul Johnson
Henry Hall Shigley
Harman West

IN PHYSICS
Roy Green
Waldo Gerald Hensel
Latham George Luikart

IN PHYSICAL EDUCATION
Nelle Fogle
Cerelda Elizabeth Stepleton

IN THE POWER PLANT
Wilbur Cameron
Laird Runser

IN THE TREASURER'S OFFICE
Margaret Louise Fry
Faculty Committees

ADMINISTRATION: President Smith (Chairman), Acting President Williams (Vice Chairman), Messrs. Bailey, Smull, Mrs. Whitworth.

ADMISSION: Entrance Examiner, Deans and Directors.


ASSIGNMENT AND SUPERVISION: Registrar, The Deans and Directors.


CATALOGUE: Messrs. Freeman, Huber, Smull.

CURRICULUM: Mr. Smull, The Deans and Directors.

FINANCE: President Smith (Chairman), Acting President Williams (Vice Chairman), Mr. Smull, University Treasurer.

GRADUATION AND DEGREES: Registrar, Deans and Directors.

INTERCOLLEGiate DEBATE: Messrs. Binkley, Freeman, Weber, Deming, Gray, Miss Schieber.


LIFE SERVICE: Messrs. Van Buren, Burke, Culler, Mrs. Davis, Miss Elliott, Secretary Y. M. C. A.

LITERARY ORGANIZATIONS: Messrs. Schoonover, Campbell, Binkley, Holycross, L. Freeman, Miss Willis.

LOAN FUND: President Smith (Chairman), Acting President Williams (Vice Chairman), Mr. Smull, University Treasurer.

MUSEUM: Messrs. Potter, Fairchild, Dobbins, Miss Auten, Mrs. Webb.

PHYSICAL EDUCATION: Messrs. Miller, Deming, Sleesman, Meredith, Zimmer, Miss Geeting, University Treasurer.

STUDENT PUBLICATIONS: Messrs. Freeman, Smith, Whitted, Berger, Close, McMullan, Smull.


STUDENT WELFARE: Messrs. Weber, Geeting, Mrs. Herring, Mrs. Davis, Misses Auten, Haley, Secretary Y. M. C. A.

SUMMER SCHOOL: Messrs. Loy, Smull, Freeman, Huber, Berger.
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 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 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 professional education. Her purpose has been, and is, to create and maintain an atmosphere inspirational and congenial to all those whose lot in life has taught them the worth of industry and economy. A distinct characteristic of Ohio Northern is the spirit of democracy and good fellowship 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 instruction.

**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 prospective 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 quadrangle, 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, and the Young Men's Christian Association rooms, the main library, the School of Commerce, 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. It fronts Main street.

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

*Brown Memorial*, in the northeast angle of the campus, is fitted and equipped for a gymnasium and used also as an assembly hall for social functions. 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 Fine Arts 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 Fine Arts 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 will be formally dedicated during Commencement Week.

PRESSER HALL

The Theodore Presser Music Hall is unquestionably the most beautiful building on the Campus. Erected this year at a cost of $175,000, the building will be ready for occupancy by the College of Music at the opening of the Summer Session of 1929. Presser Hall is situated directly west of the main quardrangle, 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. There are two practice organs and a recital organ in the auditorium. 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 has 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, will be completed this spring and formally dedicated May 25, 1929. It is located at the corner of Union street and University avenue, and 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 volleyball 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.

LIBRARY

The library is located in apartments built for the purpose, on the second floor of Lehr Memorial. Here in spacious, well-lighted quarters have been provided a reading room accommodating one hundred and fifty students, and a stack room with a capacity of 60,000 volumes.

The University sets aside a budget for the building up of the library. However, since books are costly and anything like an adequate equipment means a large investment of money, all the friends of the institution are earnestly invited to assist by making donations of up-to-date books and by generously contributing funds. Any contribution of libraries or single volumes practically serviceable will be gratefully received and acknowledged.

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

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 in the south room of the Library in Lehr Auditorium. Access to the collections may be gained at the regular library hours. The University is grateful to these friends for their generous contributions.

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 into 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.

At the public functions of Commencement week, members of the faculty and graduating class wear academic costumes in keeping with their degrees. The University colors are orange and black.

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 West 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*

Bishop Theodore S. Henderson  
Walton B. Bliss  
Bishop Lawrence H. Seager  
Chandra Gooneratne  
Dr. W. O. Thompson  
Edward H. Thompson  
Dr. Charles Louis DeBow  
Dr. Benjamin F. Finkel  
Senator Simeon D. Fess  
Sherwood Eddy  
Elwood T. Bailey  
Wallace Bruce Amsbary  
Chester M. Sanford  
Fielding H. Yost
Concerts and Recitals

Clara Schevill  Hartmann String Quartet
Charles Ross Taggart  Shadwell’s Scout Band
Wise and Braverman  Bluffton College Symphony
Stanley Deacon  Gray-Lhevinne

Entertainment

Stratford Players:  S. S. Henry & Co.
    Julius Caesar.
Zellner  New York Comedies:
    First Year; Tommy.

Musical Organizations

Choral Society. The Ohio Northern University Choral Society is made up both of University students and townpeople, and membership is open to all who love and appreciate good music. This 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, February 22. The Eisteddfod will be held in Lehr Auditorium, February 22, 1930.

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, March 1, 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.

Girls’ Glee Club. This club is organized to give home concerts and tours. On March 15, 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.

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.

Band. Ohio Northern has a fine band. 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 accompanies the football team on trips, and 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. Among the plays given during the past five years are the following:

Dickens' The Cricket on the Hearth.
Shakespeare's As You Like It.
Mason's Green Stockings.
Pollock's The Enemy.
Cohen's Come Seven.
Shakespeare's Twelfth Night.
Shakespeare's Taming of the Shrew.
Sophocles' Antigone.
Shakespeare's Midsummer Night's Dream.
TECHNICAL ORGANIZATIONS AND LITERARY CLUBS

The following technical organizations 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 Association.
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 to 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.

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 Athletics is under the management of a Director and a Board of Directors, comprised of the Faculty Committee on Athletics, appointed by the President of the University, and a student member of each college sport.

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 FUND

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.

PRIZES

The Henry Solomon Lehr prizes of $15.00 and $10.00 awarded to winners in the annual Oratorical contest among the three literary societies.

Dr. George W. Crile offers $15.00 and $10.00 prizes annually to the members of the Adelphian Literary Society winning honors in oratory.
The Jennie Bowman prizes of $15.00 and $10.00 awarded annually to the members of the Franklin Literary Society winning honors in oratory.

Hon. Homer A. Ramey, ’16, Toledo, Ohio, offers $15.00 and $10.00 prizes annually to the members of the Philomathean Literary Society winning honors in Oratory.

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

Hon. S. A. Hoskins, Columbus, Ohio, offers $15.00 and $10.00 prizes to the members of the Franklin Literary Society winning honors in debate.

Mr. Charles S. Ashbrook, Findlay, 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. Caroline Ames of Ada, Ohio, gives $25.00 a year for five years for winners of the college song contest.

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

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.
EXPENSES

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

All fees such as Registration, Library, Artists-Lecture Course, Student Publication, Y. M. C. A., Y. W. C. A., Debating Association, etc., are included in tuition charges except a small maintenance fee in laboratory and field work and certain courses in Fine Arts and Speech; also a locker fee in Physical Education.

TUITION RATES

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

For one quarter (twelve weeks) in advance... $ 50.00
For two quarters in advance.................. 99.00
For three quarters in advance............... 148.00

In the Colleges of Engineering and Pharmacy:

For one quarter (twelve weeks) in advance... $ 55.00
For two quarters in advance.................. 109.00
For three quarters in advance............... 163.00

In the Warren G. Harding College of Law:

For one quarter (twelve weeks) in advance... $ 60.00
For two quarters in advance.................. 119.00
For three quarters in advance............... 178.00

In the A. D. Juilliard College of Music:

For tuition rates see College of Music section. All students paying the regular tuition fee are admitted to the general classes in Rudimental Music without extra charge.

The tuition rates for the Summer Quarter in the College of Education are $37.50 for 12 weeks if paid in advance for full quarter, or $20.00 for 6 weeks.

LABORATORY FEES

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

Physics, $3.00; Zoology, I, II, III, $2.50; Botany, I, II, III, $2.50; Comparative Vertebrate Anatomy, $2.50; Mammalian Anatomy and Physiology, $4.00; Vertebrate Embryology, $2.50; Special Methods in Biology, $2.50; Horticulture, $2.50; Plant Physiology, $3.00; Surveying I, Surveying II,
Railroad Engineering I, each $2.50; Mechanical Engineering, $3.00; Elementary Electric Laboratory, $4.00; Electrical III, $4.00; Electrical IX, $5.00; Electric Power Plant, $1.00 per credit hour; Machine Shop, $3.00; Testing of Materials, $3.00; Gymnasium (including locker fee), $2.00; Urinalysis, $2.00; Practice Teaching, $15.00.

Chemistry I, II, III, Ia, IIa, IIIa, a fee of $4.00 per quarter is charged to cover rental of returnable apparatus, and cost of group of ten reagents provided for each desk. These reagents will be replenished as needed without further cost. No part of this fee is refunded.

All other Chemistry courses (except 214, 218, 219, 220) a rental fee of $5.00 is charged. No part of this fee is refundable.

In addition to the above non-returnable fees a $5.00 ticket must be purchased to reimburse the department for broken and non-returnable apparatus and chemicals, unless otherwise stated by professor in charge.

NOTE: Chemistry IX will have a refundable charge of $10.00.

Any unused portion of this ticket will be refunded at the end of the school year, or at the end of any quarter in case the student should withdraw from the course.

GRADUATION FEES

Diplomas are awarded to those who complete any regular course of study. The diploma fee is $5.00 for paper and $7.00 for parchment.

REFUNDING

In case of withdrawal from college or change of course within two days of registration, $1.00 will be charged. After two days refunds will be made on the following basis: before the end of two weeks, 80%; before the end of four weeks, 60%; before the end of six weeks, 40%; after the sixth week no refund of tuition and fees will be made. No tuition or fees will be refunded to students who are "dropped from the rolls." Receipts are not transferable.
TRANSFERRING

Before a student will be permitted to transfer from one college to another, it will be necessary for him to meet the tuition charges of the college to which he is transferring, from the beginning of his course to the date of his transfer. If the college he is about to enter requires a higher tuition, such accrued tuition shall be paid before a transfer is permitted. If a smaller tuition prevails, proper refund will be made.

A student thus desiring to transfer from one college to another must make arrangements for the transfer through the Entrance Examiner. The student must be released by the Dean of his College or the Director of his School before registration can be completed in the College or School to which the transfer is desired.

ROOM, BOARD AND HOME COMFORTS

In order to insure plenty of good wholesome food at the lowest possible cost to the student, the University has a large, well equipped Cafeteria in the Brown building. This is very much more than "an eating place." It it open to the public.

Ada is strictly a school town. The citizens throw open their homes to the students. They have long been noted for their hospitality. Since a majority of the families are engaged in rooming students, the competition is sharp and prices are low. Rooms vary from $2.00 to $3.00 per week, according to location and appointments. Board can be secured for $4.50 to $6.00 per week.

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 entrance committee. Students transferring from another school will not be granted admission in the absence of official transcript.

The credited statement of entrance units which should be sent by the principal of the school directly to the University must be in the Entrance Examiner’s office 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.

Note: Immediately upon arrival, women should report to the Dean of Women at the Registrar’s office 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.

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 following “Cuts for Class Absence:” One-fifth (1/5) credit hour for each subject each day first week, and two credit hours for each week’s absence thereafter.
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 eleventh week of each quarter is set aside for arrangement of classes for the following quarter. Upon presentation of an entrance permit the student is given a registration card which he carries to the Dean of his department. The Dean advises and directs what subjects are to be pursued during the quarter and indicates these together with his approval on the registration card. The Dean then presents the registration card to the Treasurer of the University, where the student pays the required fees, and is given a receipt which admits him to the classes named thereon.

Failure to Preregister

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 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 Directors will be in their offices from 9:00 A. M. to 5:30 P. M. on Monday and Tuesday of the first week of each quarter for conference with students.

Advisers

On his admission to college rank 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 should 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.

Any extra hours taken to “make up” absences shall be paid for at the rate of tuition prevailing in the College in which the student is enrolled. If a student’s record will permit he may add to his regular schedule, otherwise he must extend his residence.

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.

Absences due to late registration, except for reasons noted above, will be charged from the regular date of registration up to the time of actual entrance upon class work.

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 President 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.

Unexcused absences reduce the college credits one-fifth of an hour for each absence.

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 seven days after registration in any quarter, and with the consent of his Dean or director and professors 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. Student on probation must earn .5 quality points 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-curriculum 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 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. This committee comprises four members of the faculty and three students, namely, President of Senior Class, President of Pan-Hellenic Council, and Editor of Northern Review.

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

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.

Grade Marks. Ex., excellent; G., good; Av., average; P., passing; Cn., conditional; F., Failure.

Points are based on the credit marks, as follows: Each hour of Ex. counts three points; of G., 2 points; of Av., 1 point; of P., 0 point; of Cn., 0 point; of F., 0 point.

A student making marks of “F” or “Cn.” in more than one-half of his assigned work for any quarter will be denied future registration except he first petition the faculty and gain their consent to future registration.

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

F., means that the student receives no credit whatever for the course, and it must be taken again.
Ex. means that "a student has grasped the subject of a course and, by thinking about it and reacting upon it, has made it his own; it represents industry and thoroughness, as well as natural ability and individual insight."

G. means that a student has intelligently fulfilled the requirements for a course, but without showing decided ability and individual insight in reacting upon the subject so as to call it entirely his own."

Av. means "fair work, either steady work of a mediocre quality, or work of a higher quality which is uneven, irregular or fragmentary."

P. means that the student's work is "barely passing."

All grades of Cn must be removed by examination during the next quarter of residence. Otherwise the grade becomes F.

All subjects in which a grade of F. is made must be taken again the first quarter in which the subject is given after the grade is made.

EXAMINATIONS

Mid-term examinations are held at the discretion of the instructor. Two days at the end of each term are given to final examinations as follows:

<table>
<thead>
<tr>
<th>Hour of Recitation</th>
<th>Hour of Examination</th>
<th>Hour of Recitation</th>
<th>Hour of Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>8 to 10</td>
<td>1:30</td>
<td>1:30 to 3:30</td>
</tr>
<tr>
<td></td>
<td>First Day</td>
<td></td>
<td>First Day</td>
</tr>
<tr>
<td>9:00</td>
<td>8 to 10</td>
<td>2:30</td>
<td>1:30 to 3:30</td>
</tr>
<tr>
<td></td>
<td>Second Day</td>
<td></td>
<td>Second Day</td>
</tr>
<tr>
<td>10:00</td>
<td>10 to 12</td>
<td>3:30</td>
<td>3:30 to 5:30</td>
</tr>
<tr>
<td></td>
<td>First Day</td>
<td></td>
<td>First Day</td>
</tr>
<tr>
<td>11:00</td>
<td>10 to 12</td>
<td>4:30</td>
<td>3:30 to 5:30</td>
</tr>
<tr>
<td></td>
<td>Second Day</td>
<td></td>
<td>Second Day</td>
</tr>
</tbody>
</table>

Unexcused absence from any regular examination shall be construed as 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 in the College of Pharmacy. In 1929 the Summer Quarter commences June 3 and ends August 17; the first term beginning June 3 and ending July 12; the second term beginning July 15 and ending August 17. 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.

The College of Education.

The College of Engineering.

The College of Pharmacy.

The Warren G. Harding College of Law.

The A. D. Juilliard College of Music.

The School of Commerce.

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).

A diploma is given in the two-year course in Education, Commerce, and Music.

Certificates are issued in one-year courses in the School of Commerce.

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.

Honor Students

Seniors of very high academic rating pursuing three and four-year courses in the College of Pharmacy, Law, Liberal Arts, Education, or Engineering may be selected by the faculties of these colleges as honor students. The number selected from each college shall not exceed four. The selection is made at the beginning of the Winter Quarter. The list of honor students is published in the register of graduates in the general catalogue.
Ohio Northern University is proud to have its College of Liberal Arts bear the honored names of George Franklin 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. By 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. By 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. On 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, 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 gymnasium.

4. As 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 removed 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.

The Summer Quarter offers the student an excellent opportunity for removing deficiencies in entrance.

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

2. At least four 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
   Physics, 1
   Chemistry, 1
   Phys. Geog., 1
   Botany, 1
   Zoology, 1
   Physiology, 1
   Agriculture, 1
   General Science, 1
3. Not more than two units may be presented from the following subjects:

Mechanical Drawing, 1  Music, 1
Freehand Drawing, 1  Manual Training, 1
Stenography (if full unit), 1  Commercial Law, 1
Domestic Science, 1  Commercial Geography, 1
Bookkeeping, 1  Bible, 1
Economics, 1  Sociology, ½

FILING OF ENTRANCE CREDITS

The certified statement of entrance credits must be in the University Entrance Examiner's office at least ten days prior to opening of quarter to avoid delay in registration. Candidates for admission are strongly urged to attend to this matter as early as possible. The student will be subject to suspension from classes if entrance credits are not in the office of the University Entrance Examiner within three weeks after registration.

EXCESS ENTRANCE CREDITS

Candidates who present more than sixteen units may at the option of the University Entrance Examiner receive advanced credit for certain courses on the basis of eight quarter hours for one high school unit. Credit in foreign language may be obtained only when the student offers for entrance more than four units of foreign language. Applicants for excess credit must show exceptional ability in college courses during the first two quarters of residence and the language must be continued in college. This credit must be secured not later than the third quarter of residence in the University. Students must take an examination in the subject for which credit is desired.
REQUIREMENTS FOR GRADUATION

PRESCRIBED COURSES

Three courses are constants for all students who are candidates for the Bachelor's degree, A. B. or B. S.

1. ENGLISH COMPOSITION
   Must be scheduled during freshman year. 9 Hrs.

2. BIBLE
   Three hours, Bible 104, may be scheduled during the freshman year and six hours, Bible 201, 202 or 203, during the junior year, or the entire nine hours may be scheduled during the junior or senior year. 9 Hrs.

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

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

2. FOREIGN LANGUAGES (Latin, Greek, French, German, Spanish)
   Students presenting as entrance three or four units in one language may complete the requirement by electing 15 hours in the same or another language. Those presenting two units in one language must elect 24 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 entrance requirement may be met, without loss of credit, by the election of Latin during the freshman and sophomore years, followed by 15 hours of foreign language during the junior year. 15 to 24 Hrs.

3. SCIENCES (Botany, Zoology, Chemistry, Physics, Mathematics)
   Mathematics may be taken as an alternative for a year course in science. Complete courses to be elected from two fields. Not less than 18 Hrs.
4. **SOCIAL SCIENCES (History, Economics, Political Science, Sociology)** 18 Quarter Hours
   Electives are to be chosen from two fields, with the completion of a year course in each.

5. **PHILOSOPHY (Psychology, Philosophy)** 5 Hrs.
   The five hours may be elected from a single field or from both.

**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 18 quarter hours. In addition to the required courses and the major and minor courses, the student may select enough free electives to bring the total up to 180 quarter hours.

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

1. Major: Ancient Languages
   Minors: English, Modern Language, History

2. Major: Bible and Philosophy
   Minors: Psychology, Sociology, Education

3. Major: Biology
   Minors: Chemistry, Physics, Sociology

4. Major: Chemistry
   Minors: Biology, Physics, Mathematics

5. Major: Economics and Business Administration
   Minors: Political Science, History, Psychology

6. Major: Education
   Minors: Philosophy, Psychology, Sociology

7. Major: English
   Minors: English, History, French, Latin

8. Major: Fine Arts
   Minors: Music, English, Modern Language

9. Major: History
   Minors: Economics, English, Political Science

10. Major: Mathematics
    Minors: Astronomy, Physics, Chemistry

11. Major: Modern Languages
    Minors: Ancient or Modern Language, History, English

12. Major: Music
    Minors: English, Modern Language, Speech

13. Minor: Physical Education

14. Major: Physics
    Minors: Chemistry, Mathematics, Biology

15. Major: Political Science
    Minors: Economics, History

16. Major: Psychology and Sociology
    Minors: Bible, Education, Biology

17. Major: Speech
    Minors: Fine Arts, 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 class exercises a week for twelve quarters. The student must have a 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 2.5 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 G 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 P 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. Failure to report at once will involve the one-fifth hour penalty for each class absence.

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 courses marked (*) are not given full credit. Five hour courses carry three hours credit; three hour courses, two hours credit. Juniors and seniors are requested to schedule a majority of their courses from the "200" group.
COURSES OPEN TO FRESHMEN

*Accounting 101-103
*Biology 101-103, 107-109
*Chemistry 101a-103a
  Chemistry 101-103
*Economics 112
*English 101, 102, 102a
  English 122a
*Fine Arts
*French 101, 102
  French 103-111
  (as prepared)
*German 101, 102

German 103-107
  (as prepared)
Greek 101-103
*History 101-103
History 113-115
*Latin 101-103
Latin 104-110 (as prepared)
*Mathematics 101a, 102a, 103a
  Mathematics 101-103
Physical Education
*Sociology 101
*Spanish 101, 102
  Spanish 103-107 (as prepared)
  Speech 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
Foreign Language
Science (Botany, Chemistry, Zoology)
  Mathematics 101a, 102a, 103a;

101, 102, 103
History 101, 102, 103; 113, 114, 115
Sociology 101, Economics 112, and Bible 104

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, if elected
Psychology, Philosophy or Education

Third Year

Complete prescribed courses in Bible and any other group electives that may remain. Major and minor courses complete the schedule.

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 pre-medical student may begin the work during the Summer Quarter. However, it is much more desirable that the work be started with the Fall Quarter. The collegiate courses which are required of pre-medical students are represented in the following table:

**First Year**

**FALL QUARTER**
- English 101
- French or German
- Chemistry 101
- Biology 101

**WINTER QUARTER**
- English 102
- French or German
- Chemistry 102
- Biology 102

**SPRING QUARTER**
- English 102a or 122a
- French or German
- Chemistry 103
- Biology 103

**Second Year**

**FALL QUARTER**
- Biology 108
- Chemistry 107
- Physics 109

**WINTER QUARTER**
- Biology 113
- Chemistry 108
- Physics 110

**SPRING QUARTER**
- French or German
- Physics 111
- Psychology 104 or 110

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, 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 Science 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 B. S. 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's 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.

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 program outlined below. Suggested electives are political science, mathematics, English literature or speech, drawing, ethics, psychology and history.

**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a or 122a</td>
</tr>
<tr>
<td>Chemistry 101</td>
<td>Chemistry 102</td>
<td>Chemistry 103</td>
</tr>
<tr>
<td>Biology 101</td>
<td>Biology 102</td>
<td>Biology 103</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 107</td>
<td>Chemistry 108</td>
<td>Physics 111</td>
</tr>
<tr>
<td>Physics 109</td>
<td>Physics 110</td>
<td>Ethics</td>
</tr>
<tr>
<td>Biology 108</td>
<td>Psychology</td>
<td>Elective</td>
</tr>
</tbody>
</table>
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 Science 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.

PRE-COMMERCE COURSE

The Pre-Commerce course outlined is designed to meet the requirements of colleges and universities that provide commerce courses leading to degrees. It provides a basis for the more specialized courses that are to follow in the third and fourth years, giving an introduction to those specialized courses that train for leadership in business. Students will do well to select the institution in which they expect to complete their commerce work so that their pre-commerce studies may properly coalesce with those of the institution selected.

**First Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a or 122a</td>
</tr>
<tr>
<td>Mathematics 101a or 101</td>
<td>Mathematics 102a or 103</td>
<td>History 115 or Mathematics 103a or 105</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Accounting 101</td>
<td>Economics 112</td>
<td>Accounting 103</td>
</tr>
<tr>
<td></td>
<td>Accounting 102</td>
<td></td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech 110</td>
<td>Speech 111</td>
<td>Business English</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>Psychology 102</td>
<td>Psychology 111</td>
</tr>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
<td>Economics 123</td>
</tr>
<tr>
<td>Accounting</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Electives from history, science, government, foreign
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 course of two years is scheduled below.

First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Foreign Language (Latin or French)</td>
<td>Foreign Language (Latin or French)</td>
<td>Foreign Language (Latin or French)</td>
</tr>
<tr>
<td>Mathematics 101a or 101</td>
<td>Mathematics 102a or 103</td>
<td>Mathematics 103a or 105</td>
</tr>
<tr>
<td>Sociology 101</td>
<td>Economics 112</td>
<td>Bible 104</td>
</tr>
</tbody>
</table>

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>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech 110 or English 121</td>
<td>Speech 111 or English 122</td>
<td>Political Science 100</td>
</tr>
<tr>
<td>Political Science 101</td>
<td>Political Science 102</td>
<td>Psychology 110</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>Psychology 102</td>
<td>Economics 123</td>
</tr>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
<td>History 115</td>
</tr>
<tr>
<td>History 113</td>
<td>History 114</td>
<td>Elective</td>
</tr>
</tbody>
</table>

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

PHYSICAL EDUCATION

The University recognizes the large place of athletic contests and games in the program of student life. No one should be unmindful of the fact that a sound mind should be housed in a strong body. Games and sports promote the habit of outdoor life, a habit that should not be neglected in our busy American style of living. To the end that both men and women, broadened with cultural background and skilled in physical education may be had to serve the public in the development of splendid bodies and the promotion of good health, the University supports a well balanced group of courses in physical education. Students expecting to teach should give these courses some consideration.

LIBERAL ARTS COURSE AND VOCATIONS

Four pre-professional courses have been 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.

2. Cultural: The developing of the art of fine living and the interpretation of what life means.
3. Vocational: The accumulation of knowledge and skill that will aid the student not only to earn a living but render a service to the world.

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

**IMPORTANT FEATURE**

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

**HOUR SCHEDULES**

Unless otherwise indicated five hour courses meet daily, three hour courses meet on Monday, Wednesday and Friday, and two hour courses meet on Tuesday and Thursday. As far as possible the hour schedule will be maintained as indicated under the courses.
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 SCHOO NOVER

It is the aim of this department to utilize as fully as possible the efficiency of Greek and Latin as instruments of education and a means of culture. The student’s effort is directed toward an appreciation of the writings from a literary viewpoint and as exhibiting the genius of the age in which they were written.

GREEK

Introductory Courses

101. ELEMENTARY GREEK (Fall) 5 Hrs.
102. ELEMENTARY GREEK (Winter) 5 Hrs.
103. ELEMENTARY GREEK (Spring) Daily, 9:00. 5 Hrs.

Advanced Courses

104. HOMER’S ILIAD 5 Hrs.
105. SELECTIONS FROM PLATO 5 Hrs.
106. NEW TESTAMENT GREEK Daily, 3:30. A literary study of the period is a part of each course. (Not given in 1929-30.) 5 Hrs.

LATIN

Introductory Courses

*101. ELEMENTARY LATIN (Fall) 5 Hrs.
*102. ELEMENTARY LATIN (Winter) 5 Hrs.
*103. ELEMENTARY LATIN (Spring) Elementary Latin, Daily, 7:30. 5 Hrs.

Advanced Courses

104. CAESAR I (Fall) 5 Hrs.
105. CAESAR II (Winter) 5 Hrs.
106. CAESAR III (Spring) Caesar, Daily, 4:30. 5 Hrs.
107. CICERO—ORATIONS (Fall) 5 Hrs.
108. CICERO—ORATIONS; VIRGIL—THE AENEID (Winter) 5 Hrs.
109. VIRGIL—THE AENEID (Spring) 5 Hrs.

Courses 107, 108, and 109 are open to students who have presented two units of Latin for college entrance. Daily, 3:30.
110. Cicero—De Senectute et Amicitia (Fall) 5 Hrs.
111. Livy—Selections from Book XXI (Winter) 5 Hrs.
112. Horace—Odes and Satires (Spring) 5 Hrs.
   Courses 110, 111, and 112 are open to the students
   who have presented four units of Latin for college
   entrance. Daily, 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. T. W. Th.,
   10:00.

250. Special Methods in Latin 3 Hrs.
   For general description of special methods courses
   see College of Education.

Bible and Philosophy

Professor Van Buren and Assistant Professor Potter

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

First Year: Bible 104, 105, or 106.
Second Year: Religious Education 101, 102, 103, 104, or
   Missions 101, 102, 103.
Third Year: Bible 201, 202, 203, 204, or Philosophy 202, 203.
Fourth Year: Religion 201, 202, 203, or Philosophy 205, 206, 207.

BIBLE

104. The Teachings of Jesus (Winter, Spring) 3 Hrs.
   This course follows the first quarter's work in
   orientation. It is based upon the four gospels. Its
   aim is to bring before the student the fundamental
   principals of Christ's teachings and to show their
   practical application. M. W. F., 9:00, 11:00, 1:30, or
   3:30.

105. Introductory Study of the Old Testament
   (Summer) 3 Hrs.
   The work of this course is to familiarize the
   student with the Old Testament from a literary and
   historical standpoint. Authorship, content and date of
   the various books are taken up in their respective

106. Introductory Study of the New Testament
   (Summer) 3 Hrs.
   The work of this course is to familiarize the
   student with the New Testament 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
   offered 1929-1930.)
201. OLD TESTAMENT (Fall) 3 Hrs.
202. OLD TESTAMENT (Winter) 3 Hrs.
An historical approach to the Old Testament from the early records up to the intertestamental period. Emphasis is given to the religious and social contributions of the Hebrews. The Fall Quarter completes the work to the close of the seventh century. M. W. F., 2:30.

203. LIFE OF CHRIST (Summer) 3 Hrs.
An examination of the historical condition at and before the time of Christ and Christ's religious and social messages. The aim of this course is to enable the student to construct his own life of Christ. M. W. F., 2:30.

204. PAUL AND HIS EPISTLES (Spring) 3 Hrs.
The man, his message, and the influences which overcame the Roman world. Study is made of world conditions during the Pauline period. M. W. F., 2:30.

RELIGIOUS EDUCATION

101. INTRODUCTION TO RELIGIOUS EDUCATION (Fall) 3 Hrs.
An introductory course, including the survey of the field; materials, methods, projects, and reasons for the growing demand in this field. Prerequisite: Bible 104. 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. PRINCIPLES AND METHODS OF RELIGIOUS EDUCATION (Spring) 3 Hrs.
A study of religious teaching and the best methods to be employed, together with the fitting of materials to different ages. Special attention is given to principles applicable to elementary and high schools. Prerequisite: Religious Education 102. M. W. F., 10:00.

104. RELIGION OF CHILDHOOD AND YOUTH (Summer) 3 Hrs.
The importance of religion in the pre-school age, and its best adaptation to boys and girls of school age. Prerequisite: Religious Education 102. M. W. F., 10:00.

RELIGION

201. COMPARATIVE RELIGION (Fall) 3 Hrs.
The religions of the world are compared and analyzed as to their value and contributions. A systematic study of the primitive, historic and modern religions. M. W. F., 4:30.

202. EVIDENCES OF CHRISTIANITY (Winter) 3 Hrs.
203. **Church History (Spring)** 3 Hrs.

A discussion of the leading events in the life of the church from the Apostolic Age to the present. The inter-relations of movements and events of both the church and the world are studied, leading to an attempted understanding of the present-day religious conditions. M. W. F., 4:30.

**MISSIONS**

101. **The Spread of Christianity (Fall)** 2 Hrs.

102. **The Spread of Christianity (Winter)** 2 Hrs.

103. **The Spread of Christianity (Spring)** 2 Hrs.

A study of the origin, meaning and methods of missionary work and the historical development and aims of missions. Foreign parts of the world, their needs and opportunities are studied as well as a study of the field and problems of religion as now found in the United States. T. Th., 10:00.

104. **The Country Church (Summer)** 2 Hrs.

The problem and welfare of the country church and its relationship to other community problems and activities which confront country folks. This course deals with retardation among the farmers, the need of cooperation and organization, and the opportunity for rural leadership. T. Th., 10:00.

**PHILOSOPHY**

202. **Logic (Winter)** 3 Hrs.

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)** 3 Hrs.

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 I (Fall)** 3 Hrs.

206. **History of Philosophy II (Winter)** 3 Hrs.

207. **History of Philosophy III (Spring)** 3 Hrs.

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. M. W. F., 11:00.
Biology

PROFESSOR HUBER, ASSISTANT PROFESSOR DOBBINS AND ASSISTANT PROFESSOR AUTEN

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. Both chemistry and physics should be elected by majors. German is recommended.

*101. GENERAL ZOOLOGY I (Fall) 3 Hrs.
This course is introductory to all other zoology courses and is designed for students who desire a general acquaintance with some of the biological laws and theories as evidenced by the animal world. Special attention given to the problems of the cell and living matter. Recitation two hours; laboratory four hours. Section 1, M. W. F., 10:00-12:00. Section 2, T. Th. F., 3:30-5:30.

*102. GENERAL ZOOLOGY II (Winter) 3 Hrs.
A general survey of the invertebrate groups based on classification, morphology and ecology. Representatives of the more important invertebrates are used in the laboratory. Time schedule same as for course 101.

*103. GENERAL ZOOLOGY III (Spring) 3 Hrs.
A study of the problems of the organism. Careful consideration of development, reproduction, genetics and evolution. Laboratory work supplemented by museum materials. Time schedule same as for course 101.

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 relationships noted. Recitations two hours; laboratory seven hours. M. W., 7:30; 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. Prerequisites: General Zoology I, II, III. Time schedule same as for course 106.

*107. BOTANY I (Fall) 3 Hrs.
*108. BOTANY II (Winter) 3 Hrs.
*109. BOTANY III (Spring) 3 Hrs.

These courses, presented largely as a cultural rather than a professional science but with emphasis placed on careful observation and logical conclusion, constitute a year of work in plant science. A major portion of the time is devoted to the consideration of the physiological processes of plants; the remainder of the year's work involves a study of the structure, development, distribution, and evolution of plants. Section 1, M. W. F., 1:30-3:30. Section 2, T. Th. F., 1:30-3:30. Section 3, M. W. F., 3:30-5:30.

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

A systematic study of the local floras. Especially designed for teachers, students majoring in Biology, and pre-professional students for whom intensive training in careful observation is essential. The student becomes acquainted with many of the native and introduced plants, and it is aimed to so familiarize him with the structure and use of keys that he may be able to proceed independently with the identification of unknown plants. Largely a field course, but supplemented by herbarium studies and lantern slide lectures. Saturday forenoon and by arrangement.

222. PLANT PHYSIOLOGY (Winter) 5 Hrs.

A study of the primary physiological processes of plants: absorption, diffusion, transpiration, photosynthesis, respiration, digestion, translocation, accumulation, assimilation, and growth. Prerequisite: Botany I, II, III, or equivalent. Six hours laboratory; two hours recitation per week. T. Th., 1:30-5:30.

224. PLANT MORPHOLOGY (Spring) 3 Hrs.

A study of the structures and life histories of typical plants of the various plant phyla. Prerequisites: Botany 107, 108 and 109.

217. HEREDITY (Spring, Summer) 3 Hrs.

An introductory course given to the study of heredity 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. The relation of heredity and eugenics to sociological problems is emphasized. Prerequisites: Zoology 101, 102, and 103, or Botany 107.
219. **BIOLOGICAL TECHNIQUE** (*Fall, Winter, Summer*) 3 Hrs.

Lecture and class work two hours, laboratory six to eight hours. A practical course for students who intend to do advanced work and for teachers of biology. Methods of collecting, killing, preserving and preparing material for demonstration and laboratory purposes are considered. Problems which are likely to be met in the biological laboratory of secondary schools are discussed. Photographic technique including lantern slide making and natural color photography, and microscopic slide making constitute part of the course. Prerequisite: One year of Botany and one year of Zoology. Consult instructor before registering. Time schedule to be arranged. Seniors majoring in Biology.

220. **BIOLOGICAL PROBLEMS** 3 Hrs.

Minor investigations for qualified seniors who are taking a major in Biology. By arrangement. Fee depends on nature of work done.

250. **SPECIAL METHODS IN BIOLOGY** (*Spring*) 3 Hrs.

For general description of special methods courses see College of Education.

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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 teaching or industrial work. 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 or 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.

Except that they are not offered during the Summer Quarter, these courses follow the same schedule and same order of study as Chemistry 101, 102, and 103; but they are specifically adapted to the student who does not present chemistry for entrance credit. Recitations, T. Th., 9:00 or 10:00 and F., 12:30; laboratory, T. Th. or M. W.
101. GENERAL CHEMISTRY *(Fall, Summer)* 5 Hrs.
102. GENERAL CHEMISTRY *(Winter, Summer)* 5 Hrs.
103. ELEMENTARY QUALITATIVE ANALYSIS *(Spring, Summer)* 5 Hrs.

Fall Quarter recitations, M. W. F., 9:00 or 10:00. Laboratory for Arts, Education and Engineering students, T. Th., 9:00-12:00, or 1:30-4:30. Laboratory for pharmacy students, M. W., 1:30-4:30. During the Summer Quarter all laboratory work is scheduled on T. Th. If necessary during the first three quarters other laboratory sections may be formed on M. W. S. forenoons.

Winter Quarter, recitations and laboratory same as for Fall. Summer Quarter, recitations, M. W. F., 11:00; laboratory, T. Th. or M. W.

Spring Quarter, schedules same as for Fall, Summer Quarter, recitations, M. W. F., 11:00; laboratory, T. Th.

The first two courses consist of a careful study of the fundamental laws of chemistry, special attention being given to behavior of gases, solutions, ionization, equilibrium, molecular weights, colloids, and calculations. The principles involved are applied to the study of the common non-metallic elements. The third course is an integral part of a year's work and is given to the study of qualitative analysis, based upon the principles of mass action, ionization, solubility and chemical equilibrium. A brief study is made of the common metallic elements. Three hours lecture and quiz, six hours laboratory.

104. QUANTITATIVE ANALYSIS I *(Fall)* 5 Hrs.
105. QUANTITATIVE ANALYSIS II *(Winter)* 5 Hrs.
106. QUANTITATIVE ANALYSIS III *(Spring)* 5 Hrs.

Courses emphasizing the underlying fundamental principles of quantitative analysis. Accurate determination of the percentage composition of compounds and mixtures by gravimetric analysis, and the calibration of apparatus and the making of volumetric determinations. Study of processes of acidimetry and alkalimetry; oxidation and reduction; iodimetry and special analytical methods, water analysis, coal and coke, limestone, cement, iron and steel and other analyses can be arranged for. Prerequisites: Introductory or General Chemistry. Lectures, T. Th., 1:30; laboratory, M. W. F., 1:30-5:30.

107. ORGANIC CHEMISTRY I *(Fall)* 5 Hrs.
108. ORGANIC CHEMISTRY II *(Winter)* 5 Hrs.
109. ORGANIC CHEMISTRY III *(Spring)* 5 Hrs.

These courses constitute a fundamental study of the carbon compounds. Beginning with the simplest hydrocarbons by means of typical reactions the other series of compounds are logically and progressively developed. Careful attention is given at each step to group structure, group relationship, group properties, nomenclature and isomerism. Prerequisites: Chemistry 101, 102, 103 or 101a, 102a, 103a. 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 as applied to the industries. Prerequisite: Organic Chemistry. Lectures, M. W. F., 9:00; laboratory, T. Th., 9:00-11:00.

211. **QUALITATIVE ANALYSIS (Fall)** 5 Hrs.
A course designed to give the student a thorough training in laboratory manipulation as well as a knowledge of the principal chemical laws and reactions needed for identification of the common elements and their compounds. Theories of solution, equilibrium, and ionization are emphasized. The analysis of at least twelve complex unknowns is made by each student. Prerequisites: Quantitative Analysis. Lectures, T. Th., 7:30; laboratory, M. W. F., 7:30-10:00.

214. **INDUSTRIAL INORGANIC CHEMISTRY (Summer)** 4 Hrs.
Lecture and discussion four hours a week. Prerequisite: Chemistry 103a or 103.

215. **PHYSICAL CHEMISTRY (Fall)** 3 Hrs.
216. **PHYSICAL CHEMISTRY (Winter)** 3 Hrs.
217. **PHYSICAL CHEMISTRY (Spring)** 3 Hrs.
A series of courses in which the fundamental principles of the science are studied and applied to chemical changes. In the interest of the pre-medical students special attention is given to osmosis, equilibrium, colloids and hydrogen ion determination. Prerequisites: General Chemistry, Quantitative Analysis, Organic Chemistry, and General Physics. Lectures, M. W. F., 3:30.

250. **SPECIAL METHODS IN PHYSICS AND CHEMISTRY (Spring)** 3 Hrs.
For general description of special methods courses see College of Education.

**Economics and Business Administration**

**ASSISTANT PROFESSOR GEETING**

This department offers courses to meet the needs of the following classes of students: (1) those who desire an understanding of economics as an essential element of a liberal education; (2) those who feel the need of an understanding of economics as a means of an intensive study of other social sciences; (3) prospective teachers of social science, economics and history; (4) pre-law and engineering students who are interested in the courses for their practical value; and (5) those majoring in the department who expect either to do graduate work in economics or business administration or who expect to enter business.
112. **Modern Industry (Winter, Spring)**  3 Hrs.
This course aims to give a brief description of modern industry to serve as a background for the study of economics; to help the student more intelligently to observe and interpret the phenomenon of his economic environment; and to make him conscious of the enormous amount of human energy necessary to provide the means for the satisfaction of wants. Open to freshmen. *M. W. F.*, 9:00.

118. **Economics for Engineers (Fall)**  3 Hrs.
119. **Economics for Engineers (Winter)**  3 Hrs.
120. **Economics for Engineers (Spring)**  3 Hrs.
Consideration is given to the problems of productive efficiency, economic organization, value and price, money and banking, international trade, distribution of wealth, and a number of current economic problems. Open to sophomores. *M. W. F.*, 11:00 and 1:30.

121. **Principles of Economics (Fall)**  3 Hrs.
122. **Principles of Economics (Winter)**  3 Hrs.
123. **Principles of Economics (Spring)**  3 Hrs.
Consideration is given to the problems of productive efficiency, economic organization, value and price, money and banking, international trade, distribution of wealth, and a number of current economic problems. Open to sophomores. *M. W. F.*, 2:30.

204. **Labor Problems (Fall)**  5 Hrs.
A brief history of the rise of permanent wage-earning groups is followed by a more detailed study of the present day problems of labor and the attempts being made to solve them. Prerequisite: Economics 118, 119, 120, or 121, 122, and 123. (Not offered in 1929-30.)

207. **Money and Banking (Spring)**  5 Hrs.
This course undertakes a study of money and credit, and the banking process. Particular attention given to the Federal Reserve System. Prerequisites: Economics 118, 119, and 120, or 121, 122, and 123. *Daily*, 10:00.

215. **Business Finance (Spring)**  5 Hrs.
After a brief analysis of the financial principles underlying the organization and management of business enterprises, attention is given to the means of securing both working and permanent capital, also to the problems of earning and dividend distribution. Prerequisite: Economics 118, 119, and 120, or 121, 122, and 123. (Not offered in 1929-30.)

216. **Business Organization and Combinations (Fall)**  5 Hrs.
A brief study is made of the simpler types of business organization. This will be followed by a more intensive study of the corporation, trust, holding company, and business association. The growth of a government policy towards monopoly will be carefully traced. Prerequisite: Economics 118, 119, and 120, or 121, 122, and 123. *Daily*, 7:30.
217. **PRINCIPLES OF ACCOUNTING (Winter)**

This course consists of a study of the principles of the double-entry system and an examination of the accounting devices in terms of business transactions and conditions. Special attention will be given to periodic operation and the construction of simple financial statements for managerial purposes. It is designed for students of economics and business administration. Prerequisite: Economics 118, 119, and 120, or 121, 122, and 123. Daily, 10:00.

218. **PUBLIC FINANCE (Winter)**

Consideration is given to the problems of budgetary procedure, public debt, and taxation. Considerable attention is given to the problems of state and local taxation. Prerequisite: Economics 118, 119, and 120, or 121, 122, and 123. (Not offered in 1929-30.)

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**Education**

**PROFESSOR LOY AND PROFESSOR RAY, ASSISTANT PROFESSOR HOLYCROSS**

A considerable number of students working toward the Bachelor of Arts degree expect to enter the teaching profession. The complete offering of courses in Education is listed under the College of Education in another section of this catalogue. Students in the College of Liberal Arts who expect to teach in high schools may elect sufficient educational courses to meet the requirements for a four-year high school provisional certificate, and at the same time meet the requirements for graduation with the Bachelor of Arts degree. The Ohio Department of Education demands that the professional courses shall total at least 36 quarter hours. The professional courses which satisfy the requirements of the Ohio Department of Education are the following:

1. Educational Psychology, 6 hours. Psychology 202, 204, or 206.
3. School Administration, 6 hours. Administration 251, 252.
4. Special methods or professionalized subject matter courses in the teaching major, 3 to 5 hours. Education 250.
5. Observation and Participation, including classroom management, 5 hours. Education 215.
6. Student Teaching, including technique of teaching, 6 hours. Education 270.
7. Electives. Fifteen hours may be taken as electives from the following courses: General Psychology 101; Education 205, 206, 211, 229, 253, and 254.
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: General Psychology 101 and Educational Psychology 204 and 206.
Third year: Principles of Education, 207, 208; Special Methods, and Observation.
Fourth year: Administration 251, 252; Observation (if not completed), and student teaching.

English

PROFESSOR FREEMAN, ASSISTANT PROFESSOR McMULLEN, AND MR. LAWRENCE FREEMAN

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: 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. M. W. F., 7:30, 9:00, 10:00, 11:00, 2:30, or 3:30.

106. EIGHTEENTH CENTURY PROSE I (Fall) 3 Hrs.
107. EIGHTEENTH CENTURY PROSE II (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. Prerequisites: English 101 and 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.

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 I (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. M. W. F., 7:30.

129. NEWS WRITING II (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. M. W. 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. Prerequisites: English 128 and 129. M. W. F., 7:30.

201. COLLEGE GRAMMAR (Spring) 4 Hrs.

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

224. THE SHORT STORY II (Spring) 2 Hrs.

205. EXPOSITORY WRITING I (Fall) 2 Hrs.

225. EXPOSITORY WRITING II (Winter) 2 Hrs.
A study of the various types of the essay and the writing of short themes together with longer fortnightly 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. **Special Methods in English (Spring, Summer)** 3 Hrs.
For general description of special methods courses see College of Education.

**Fine Arts**

MRS. ALICE ENSIGN WEBB

It is the aim of this department to acquaint the student with the historical development of the fine arts, to stimulate an appreciation for things beautiful, and to provide some fundamental studio training in art education.

101. **Drawing I (Fall)** 5 Hrs.
Sketching in pencil and charcoal with regard to light and shade, and areal and linear perspective. Ten hours studio work. M. W. afternoons.

102. **Drawing II (Winter)** 5 Hrs.
The study of color theory and harmony. Color charts are used in preparation for work in Interior Decoration. Ten hours studio work. M. W. afternoons.
103. OIL PAINTING (Spring) 5 Hrs.
Painting in oil from still-life. The aim of the course is to develop in the student color sense and values. M. W. afternoons.

110. ELEMENTARY DESIGN (Fall) 5 Hrs.
111. INTERMEDIATE DESIGN (Winter) 5 Hrs.
112. ADVANCED DESIGN (Spring) 5 Hrs.
Three courses dealing with the principles and practices of pure and organic design problems. The development of units and motifs in natural, conventional, and geometric designs, and the study of their adaptation to historic and modern art. Daily, 9:00.

201. HISTORY OF ART I (Fall) 3 Hrs.
A study of Egyptian, Greek and Roman Art with illustrated lectures, readings and reports. M. W. F., 7:30.

202. HISTORY OF ART II (Winter) 3 Hrs.
A study of art from the early Christian period through the Renaissance, with special study of Spanish and Flemish art. Lectures, readings, and reports. M. W. F., 7:30.

203. HISTORY OF ART III (Spring) 3 Hrs.
The art of Holland, Germany, England, and France, including the contemporary art of America. Lectures, readings, and reports. M. W. F., 7:30.

210. ART APPRECIATION I (Fall) 2 Hrs.
211. ART APPRECIATION II (Winter) 2 Hrs.
The first course deals with appreciation of the plastic arts; the second is appreciation of the pictorial arts. T. Th., 7:30.

220. ADVANCED OIL PAINTING 3 Hrs.
Landscape work for advanced students. M. W. afternoons.

225. INTERIOR DECORATION (Spring) 3 Hrs.
A study of house planning based upon the fundamental principles of design and their application to interiors and furniture. Prerequisite: Courses in Design. M. W. F., 10:00.

History

PROFESSOR BURKE AND PROFESSOR SCHIEBER

It is the aim of this department to offer such courses as will give the student an understanding of the present from a knowledge of the past. To secure this aim the continuity of institutions is stressed rather than political events. Students majoring in history should elect courses from both American and European history. Political Science or
Sociology is recommended. English history should be elected by all students taking a major in English literature. Students majoring in the languages should elect courses in European history.

*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. 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. (Not given 1929-1930.)

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. M. W. F., 10:00, 11:00 or 3:30.

116. **Hispanic American History: Colonial Period**  
(Fall) 3 Hrs.

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.

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. (Not given 1929-30.)
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. M. W. 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. These courses alternate with history 219, 220, 221. (Not given 1929-30.)

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. These courses alternate with History 213, 214, 215. (Not given 1929-30.)

213. The Expansion of Europe (Fall) 3 Hrs.
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. 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. Prerequisites: History 113, 114.
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. M. W. F., 2:30.

224. **Constitutional History of the United States to 1830** (Fall) 3 Hrs.

225. **Constitutional History of the United States from 1830 to the Present** (Winter) 3 Hrs.

Two courses dealing with the constitutional development in the United States from the colonial period to the present time. The development of representative institutions, federalism, the courts and social legislation are some of the items of interest which are considered from the standpoint of historical inquiry. Prerequisites: History 113, 114, 115. (Not given 1929-30.)

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. Especial emphasis is placed upon the developments of the nineteenth and twentieth centuries. (Not given in 1929-30.)

227. **History Problems** 3 Hrs.

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

250. **Special Methods in History** 3 Hrs.

For general description of special methods courses see College of Education.

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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 214. 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. Prerequisites: One unit of algebra and one unit of geometry. M. W. F., 9:00.

101. COLLEGE ALGEBRA I 5 Hours
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. Prerequisites: 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 II 4 Hours
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 I 5 Hours
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. Winter, 10:00.

107. CALCULUS I (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 II (DIFFERENTIAL AND INTEGRAL)**  4 Hrs.
Topics: Change of variable; maxima and minima of functions of two or more variables; direction of curves; tangents and normals; tangent plane and normal line; direction of curvature; 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 III (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.

110. **CONIC SECTIONS (Summer)**  3 Hrs.
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)**  5 Hrs.
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. Prerequisite: Mathematics 103.

112. **DIFFERENTIAL EQUATIONS (Fall)**  3 Hrs.
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.

113. **THEORETICAL MECHANICS (Spring)**  5 Hrs.
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.

114. **THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (Spring)**  4 Hrs.
Topics: The rational functions and stereographic projection; automorphic functions; continuity of a rational function of a complex variable; derivative of a rational function of a complex variable; conformal representation; the integral of a regular function of a complex variable.

116. **CALCULUS IV (Fall)**  4 Hrs.
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. Prerequisites: Mathematics 108 and 109. M. T. W. Th., 2:30.
217. **Theory of Equations and Determinants**  
(Winter) 3 Hrs.  
Algebraic equations of one unknown; systems of simultaneous equations and determinants. Prerequisites: Mathematics 105 and 107. M. W. F., 10:00 (Note: This course alternates with 106.)

250. **Special Methods in Mathematics** 3 Hrs.  
For general description of special methods courses see College of Education.

**Modern Languages**

**Professor Davis, Miss Willis, Mr. Culler**

The study of a 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) 5 Hrs.
102. **Elementary French** (Winter) 5 Hrs.
103. **Intermediate French** (Spring) 5 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. Daily, 10:00 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. Prerequisites:
Two units of high school French or French 101, 102,
and 103. M. W. F., 10:00.

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., 10:00.

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. Prerequisites: Two
units of high school French or French 101, 102, and

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

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.

218. SCIENTIFIC FRENCH (Fall)  2 Hrs.
250. METHODS OF TEACHING (Winter)  3 Hrs.
220. HISTORY OF THE FRENCH LANGUAGE (Spring)  3 Hrs.

French 218 is intended for those who desire to read French scientific texts and periodicals. French 250 is a course for prospective teachers of French and is required of all who seek the recommendations of the Department for positions in high schools. Methods, selection of text-books, scientific technique of teaching pronunciation, grammar and literature. Reports on texts, assigned reading, and conferences. Prerequisites: three years of French. French 220 is a course in the history of the French language, principles of French etymology, and an introduction to Old French morphology and reading, such as Chanson de Roland. Hours to be arranged.

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 "escolier"; 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., 7:30.

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202. 19TH CENTURY DRAMA (Winter) 3 Hrs.
203. MODERN DRAMA (Spring) 3 Hrs.
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226. **Explication de Textes (Fall)** 3 Hrs.
227. **Explication de Textes (Winter)** 3 Hrs.
228. **Contes et Nouvelles (Spring)** 3 Hrs.

Selections from literature suitable for use in high schools, as well as the study of various types from the nineteenth century to the present day. Prerequisites: Three years of advanced French, including French 131. Given in French. M. W. F., 7:30.

**SPANISH**

*Introductory Courses*

101. **Elementary Spanish (Fall)** 5 Hrs.
102. **Elementary Spanish (Winter)** 5 Hrs.
103. **Intermediate Spanish (Spring)** 5 Hrs.
104. **Intermediate Spanish (Summer)** 5 Hrs.

Elementary grammar, conversation, composition, reading of easy graded prose and memorator of poetry and songs. Daily, 7:30.

*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. 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. Alternate with 105, 106, 107. (Not given in 1929-30.)

113. **Advanced Composition (Fall)** 2 Hrs.
114. **Commercial Spanish (Winter)** 2 Hrs.
115. **History of Spain (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, and 112. (Not given in 1929-30.)
116. **SPANISH CONVERSATION** *(Fall)* 2 Hrs.

117. **ADVANCED REVIEW GRAMMAR AND SYNTAX** *(Winter)* 2 Hrs.

118. **HISTORY OF LATIN AMERICA** *(Spring)* 2 Hrs.

Spanish 116 is a conversational course based on special topics of practical life and is intended for those who require a speaking knowledge of the language for travel and business. Spanish 117 is intended for those who expect to teach Spanish. These courses correlate with Spanish 105, 106, and 107. T. Th., 9:00.

**GERMAN**

*Introductory Courses*

101. **ELEMENTARY GERMAN** *(Fall)* 5 Hrs.

102. **ELEMENTARY GERMAN** *(Winter)* 5 Hrs.

103. **INTERMEDIATE GERMAN** *(Spring)* 5 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. Daily, 11:00.

*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., 9:00.

110. **SCHILLER AND LESSING** *(Fall)* 3 Hrs.

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

112. **THE ROMANTIC PERIOD** *(Spring)* 3 Hrs.

These three courses are given in alternate years with German 105, 106, and 107. M. W. F., 9:00.

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. Prerequisites: Four quarters of German. T. Th., 9:00.
Music

PROFESSOR EVANS AND PROFESSOR LAMALE
MR. WILIIHGANZ AND MISS WILLIS

(See College of Music for description of courses)

A major in music may be selected from a combination of theoretical and practical courses or from theoretical courses alone. Students who do not desire to major in music, but have training in practical music of sufficiently advanced grade, may elect courses in practical or theoretical music for college credit.

MAJOR IN PRACTICAL AND THEORETICAL MUSIC

The major consists of a total of 36 hours. One hour credit for one-half hour lesson and six hours practice a week, throughout the quarter. Two hours credit for two half-hour lessons and twelve hours practice a week, throughout the quarter. The practice requirements for vocal students may be somewhat less in the beginning, but those who have not reached the third grade in piano will be required to take one half-hour lesson a week in piano for at least three quarters.

Courses required for the major: For students taking eighteen hours in practical music the following eighteen hours in theoretical music are prescribed: Harmony 101, 102, 103, 104, 105 and 106 (complete), two hours a week for six quarters; credit, twelve hours. History or Appreciation of Music 116, 117, and 118, two hours a week for three quarters; credit six hours.

Students who can meet any of these theoretical requirements, will be assigned more advanced work.

As to the grade of the work in practical music: Not more than three hours of credit will be given in piano, voice or violin for work below the fourth grade, and this will be given only when the work is continued into the fourth grade. Students are given no credit in organ unless the fourth grade requirements in piano have been met.

MAJOR IN THEORETICAL MUSIC

A major in theoretical music consists of the following courses: Harmony, twelve hours; History or Appreciation of Music, six hours; Counterpoint, six hours; Harmonic Analysis, two hours; Form, four hours; Composition, six hours.
Physical Education

PROFESSOR MILLER, ASSISTANT PROFESSOR MEREDITH, ASSISTANT PROFESSOR ZIMMER AND ASSISTANT

This department aims to offer a rational program of physical education designed to assist each student to secure and maintain the highest degree of efficiency during and after school life. To secure these ends, opportunity is offered to all students for some form of activity, depending upon interests, sex, health, and physical efficiency. A careful examination is given to each first and second year student, which is followed by physical efficiency tests. Students are classified according to the results of the examination and tests, and activities and remedial procedures are prescribed accordingly. A check-up of the condition of each student is made from time to time.

Two hours of practice per week are required of each student during the first six quarters of residence, for which one hour of credit is given each quarter. Six hours of credit are required for graduation.

REQUIRED COURSES

First Year. Gymnasium work, and outdoor work in season, natural gymnastics, informal play.

Second Year. (Men) Continuation of first year with team games and apparatus added.
(Women) Continuation of first year with natural dancing, apparatus, and team games added.

MINOR IN PHYSICAL EDUCATION

For students in the College of Liberal Arts who wish to secure a teaching minor in this department the following courses are suggested:

115. PERSONAL HYGIENE (Winter) 3 Hrs.
116. SCHOOL HYGIENE (Spring) 3 Hrs.
*151. SCHOOL HEALTH PROBLEMS (Winter) 3 Hrs.
*152. HEALTH EDUCATION (Fall) 3 Hrs.
*201. PRINCIPLES IN PHYSICAL EDUCATION (Fall) 3 Hrs.
*202. PRINCIPLES IN PHYSICAL EDUCATION (Winter) 3 Hrs.
*203. PRINCIPLES IN PHYSICAL EDUCATION (Spring) 3 Hrs.
*221 or *222 or *223. METHODS IN COACHING 3 Hrs.
252. DIAGNOSIS AND ANTHROPOMETRY (Fall) 3 Hrs.
*258. FIRST AID (Spring) 3 Hrs.

Courses marked (*) are required by the Ohio Department of Education for a minor in Physical Education. For the full description of these and other courses in Physical Education see Department of Physical Education of this catalogue.
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. Prerequisites: high school physics and analytical geometry. Class four hours, M. T. W. Th., 9:30; 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 sophomores in Arts and Education. Prerequisites: One year of high school algebra and plane geometry. Class four hours, M. T. W. Th., 4:30; laboratory any afternoon, one three-hour period.

No one will be recommended by the department for a position as physics teacher who has not completed courses 109, 110, 111, and 250.

213. ADVANCED MECHANICS (Fall) 5 Hrs.

A course in mechanics problems. Prerequisites: 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.

215. DIRECT CURRENT MACHINES (Winter) 5 Hrs.

A study of the theory and practical operation of the direct current machines used in physics laboratory. Class four hours; two hour laboratory. Prerequisites: Physics 111 and trigonometry. 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. Prerequisites: Physics 109, 110, and 111 and Mathematics 103. Calculus is recommended. Two three-hour laboratory periods each week.

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

For general description of special methods courses see College of Education.
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, Summer) 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. M. W. F., 11:00 or 1:30; Summer, 7:30.

204. Municipal Government (Spring) 5 Hrs.

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, and 103. Daily, 2:30.

207. Comparative Government (Fall) 5 Hrs.

A study of the problems of constitutional and popular governments based upon a comparison of the modern constitutions of European and American states and with a view to testing our own constitutional principles and practice by such comparison. Prerequisites: Political Science 101, 102, and 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 political problems. Prerequisite: Nine hours of political science or the consent of the instructor. M. W. F., 10:00.

213. **American Constitutional Law** *(Fall)* 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. (Not given 1929-30.)

214. **Public Administration** *(Spring)* 3 Hrs.
   A study of the problems and fundamental principles of administration in modern governments, national, state, and local. Prerequisite: Political science 101, 102, and 103 or the consent of the instructor. M. W. F., 10:00. (Not given 1929-1930.)

215. **International Relations** *(Winter)* 5 Hrs.
   This course is designed primarily to lead the student to an understanding of the current problems in this field in order that he may think sanely and arrive at sound conclusions with regard to international politics. Prerequisite: Nine hours of political science or the consent of the instructor. Daily, 2:30.

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**Psychology and Sociology**

**Professor Gray and Assistant Professor Potter**

**Psychology**

101. **General Psychology** *(Fall, Summer)* 5 Hrs.
   A general study of mental processes, aiming to train the student to observe these processes in his own experience and in those of others, and to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and pedagogy and is an important part of equipment for historical and literary interpretation. Prerequisite: One year of college work. Daily, 11:00 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, and presents the applications of psychology to the various fields of occupational activity. Prerequisite: Psychology 101. Daily, 11:00 or 3:30.

103. **Psychology of Religion** *(Spring)* 3 Hrs.
   This is a study of a special subject based on a thorough 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, the types of religious experience, such as conversion and gradual growth, and revivalism in the light of the psychology of suggestion compared with educational process; (3) analysis of mature religious consciousness with reference to the nature and place of religious emotion and the character and function of religious ideas and concepts. Prerequisite: Psychology 101. M. W. F., 3:30.

104. Social Psychology (Spring) 3 Hrs.
The basis of the theory of social consciousness is derived from recent studies in gesture, language and instinct. Questions proper to this science are: (1) the genesis and development of consciousness in the family, gang, school, club, voluntary association and the nation; (2) the social character of instinct, feeling, perception and thinking; (3) the interpretation of the crowd, fashion and custom; (4) political parties, the newspaper and the public will; (5) democracy and leadership. This course alternates with Psychology 103. Prerequisite: Psychology 101. M. W. F., 3:30. (Not given 1929-1930.)

110. Abnormal Psychology (Spring) 5 Hrs.
This course is an introduction to the study of problems of mental health. A study will be made of the medical and psychiatric features of these problems of mental health, showing more specifically their fundamental relations to education and at the same time giving some idea of the frequency of their occurrence in everyday business and professional life. Suggested treatment of definite practical value in the various fields of work in which the personality and adjustment are met, are given special emphasis. This course is designed to meet the needs of students of Education and pre-professional courses. Prerequisites: Psychology 101 and 102. M. W. F., 11:00.

111. Psychology of Business Relations (Spring) 3 Hrs.
This course is a study of business practice in the light of established scientific theories, to the end that the student may understand more fully business relations and be able to carry out his part in them more effectively.

212. Psychological Problems 3 Hrs.
Open only to qualified seniors taking a major or minor in psychology.

202. 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. Prerequisites: General Psychology 101 or Educational Psychology 101. M. W. F., 10:00.

204. 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. Prerequisites: General Psychology 101, or Educational Psychology 101. M. W. F., 10:00.
206. **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. Prerequisites: General Psychology 101, or Educational Psychology 101. M. W. F., 10:00.

**SOCIOLOGY**

101. **Social Relationships (Fall)**  
3 Hrs.  
The first part of the quarter is devoted to a study of student relationships, college methods and ideals, methods of study, and discussion of various fields of science. The second part of the course is limited to a study of Man and Civilization. Required of freshmen. M. W. F., 9:00, 11:00, 1:30, 3:30.

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., 9:00 or 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. Prerequisites: Sociology 201 and 202. M. W. F., 9:00 or 1:00.

204. **Rural Sociology (Summer)**  
3 Hrs.  
This course presents those principles of social theory necessary to the study of rural social problems, and includes a careful presentation of the influence of physical environment upon rural progress. Social problems in the rural community are considered in their relations to the economic conditions of the farmer; the land question; the rural church, the rural school; means of communication, etc. These are correlated with like conditions in urban social life so that the student will have a broad view of our social conditions. Prerequisite: Sociology 201 and 202. M. W. F., 1:30.

210. **Criminology (Fall)**  
3 Hrs.  
A study of the causes, investigation and prevention of crime; also the evolution of the methods of criminal procedure. Prerequisites: Sociology 201 and 202. T. W. Th., 3:30.

211. **Social Problems (Winter)**  
3 Hrs.  
A study of the principles and methods of carrying on social investigations. Discussion of recent surveys and case studies in various fields. Each student is required to make a minor investigation of some social problem. Open to qualified seniors with consent of instructor.
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., 1:30.

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 I (Fall) 3 Hrs.
111. ARGUMENTATION II (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. Prerequisites: English 101 and 102. M. W. F., 2:30.

112. DRAMATIC TECHNIQUE (Spring) 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. Prerequisites: Speech 103 and 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. Prerequisites: Speech 101 and 102. T. Th., 2:30.

223. Orators and Oratory (*Spring*) 2 Hrs.
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. (Not offered in 1929-1930.)

230. Intercollegiate Debate (*Fall*) 2-3 Hrs.
Members of the debating 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. Shakespearean Reading (*Winter*) 3 Hrs.
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.

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., 1:30.

233. Advanced Recital (*Spring*) 2 Hrs.
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.
COLLEGE
OF
EDUCATION

FRANK L. LÖY, Dean
THE AIM

The College of Education of Ohio Northern University is devoted entirely to the instruction and training of teachers. The work of the College has been carefully and thoroughly organized and fully meets all the requirements of the State Department of Public Instruction and the standards maintained in the best colleges of the country. All professors and instructors have had successful public school experience as well as special preparation for their work and their ideal of service is a sympathetic co-operation with all students in helping to solve their immediate problems. Such a personal experience with strong educational leaders is the best and most valuable part of any course of instruction.

This college aims to give a sound and thorough knowledge of all the branches studied; to develop correct methods of investigation and research; 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.

As stated on Page 24, the Ohio Northern University "holds membership in the Association of American Colleges and the Ohio College Association." The College of Education 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 Physical Education and 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. Those who complete the Elementary and Secondary courses described in the following pages will be granted "state four-year provisional certificates," and, after twenty-four months of successful teaching experience, the certificates may be made permanent by the State Board of Examiners.

**PROFESSIONAL TRAINING**

For the sake of insuring the normal development of children and the conservation of the teacher's health, professional training as well as sound scholarship are now demanded of all who would secure positions in the teaching service. But whatever may be the legal requirements in Ohio or any other state, preference is always given by those in charge of the administration of Public Education in any community to the teachers who have made thorough preparation for their chosen work. There is a growing public sentiment in favor of eliminating the untrained, and this will necessarily result in better salaries and more favorable recognition for those who are worthy. Abundant opportunities are always open to teachers of superior qualifications and recognized merits.

**ADMISSION**

Only men and women of good moral character are admitted as students in the College of Education of the Ohio Northern University. The academic requirements for entrance to courses leading to State Certificates in Ohio as fixed by the Ohio Department of Education for all Normal Colleges of the State, require graduation from a first grade high school, or its equivalent; and the necessary fifteen units will be accepted from first grade high schools, academies or preparatory schools recognized by the State Department of Education in their respective States. Students desiring to pursue courses of study leading to diplomas or degrees must
submit their high school or preparatory credits to the University Entrance Examiner at least two weeks before entering the University. All high school graduates desiring to become teachers must also pass the entrance examination prescribed by the Ohio Department of Education.

It is strongly recommended that students pursuing the four-year curriculum leading to the degree, B. S. in Ed., present eleven of the fifteen units required for admission from the following distribution: English 3, American History and Civics 1, Algebra 1, Geometry 1, Foreign Language 2, Physics or Chemistry 1, Biological Science 1. Five additional units may be presented from groups 2 and 3, as listed under Entrance Requirements for the College of Liberal Arts.

CURRICULA

Curricula have been constructed to meet the needs of the following types of teaching positions in the public schools:

1. Two curricula for the training of elementary teachers.

2. A general four-year curriculum for the training of junior and senior high school teachers, the student electing majors and minors from the field in which he wishes to teach.

3. One four-year curriculum for the training of supervisors and teachers of physical education.

4. One four-year curriculum for the training of supervisors and teachers of music.
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.
# COURSES OF STUDY

## TWO-YEAR COURSE FOR THE TRAINING OF PRIMARY SCHOOL TEACHERS

### First Year

#### FALL QUARTER
- Introduction to Teaching with Observations 101 2
- Educational Biology 123 3
- English 101 3
- Primary Literature and Teaching of Reading 117 4
- Professionalized Course in Industrial Arts 2
- Public School Music 124 1
- Physical Education 1

#### WINTER QUARTER
- English 102 3
- Educational Psychology 112 3
- Primary Literature and Teaching of Reading 117a 4
- Professionalized Course in Arithmetic 118 4
- Professionalized Course in Industrial Arts 2
- Public School Music 125 1
- Physical Education 1

#### SPRING QUARTER
- Observation and Classroom Management 122 4
- English 102a 3
- Professionalized Course in Arithmetic 119 4
- Child Psychology 152 3
- Public School Music 126 1
- Physical Education 1

### Second Year

#### FALL QUARTER
- Theory and Practice of Plays and Games 156 3
- Kindergarten-Primary Theory 153a 3
- Teaching of Spelling and Language 159 3
- History 101 3
- Professionalized Course in Geography 155 4
- Public School Music 127 1
- Physical Education 1

#### WINTER QUARTER
- Principles of Education 154 3
- Interpretative Reading and Speech Correction 106 2
- History 102 3
- Professionalized Course in Geography 156 4
- Educational Hygiene 168 3
- Physical Education 1

#### SPRING QUARTER
- Student Teaching and Technique of Teaching 170 6
- Teaching of History 176 3
- Nature Study 165 3
- Physical Education 1
# Two Year Course for the Training of Intermediate School Teachers

## First Year

### Fall Quarter
- Introduction to Teaching with Observations 101 2
- English 101 3
- Juvenile Literature and Teaching of Reading 118 4
- Educational Biology 123 3
- Professionalized Course in Industrial Arts 2
- Public School Music 124 1
- Physical Education 1

### Winter Quarter
- Educational Psychology 3
- English 102 3
- Juvenile Literature and Teaching of Reading 118a 4
- Professionalized Course in Arithmetic 120 4
- Professionalized Course in Industrial Arts 2
- Public School Music 125 1
- Physical Education 1

### Spring Quarter
- Observation and Classroom Management 123 4
- English 102a 3
- Professionalized Course in Arithmetic 120a 4
- Child Psychology 152 3
- Public School Music 126 1
- Physical Education 1

## Second Year

### Fall Quarter
- Organization and Administration of School Law 107 3
- Professionalized Course in Geography 157 4
- History 101 3
- Teaching of Spelling and Language 160 2
- Theory and Practice of Plays and Games 156 3
- Public School Music 127 1
- Physical Education 1

### Winter Quarter
- Principles of Elementary Education 152 3
- Professionalized Course in Geography 158 4
- Educational Hygiene 168 3
- History 102 3
- Interpretative Reading and Speech Correction 106 2
- Public School Music 128 1
- Physical Education 1

### Spring Quarter
- Student Teaching and Technique of Teaching 171 6
- Principles of Elementary Education 154 3
- Nature Study 165 3
- Teaching of History 176 3
- Physical Education 1
Graduates from the Two-Year Elementary Curricula may receive the degree, Bachelor of Science in Education, by completing the following curriculum:

**Third Year**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
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</thead>
<tbody>
<tr>
<td>History of Education 209</td>
<td>Educational Psychology 2</td>
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<tr>
<td>Economics or American Government</td>
<td>Economics or American Government 3</td>
</tr>
<tr>
<td>Modern European History</td>
<td>Modern European History 3</td>
</tr>
<tr>
<td>Health Education and Sanitation</td>
<td>General Science 3</td>
</tr>
<tr>
<td>Biological Science</td>
<td>Biological Science 3</td>
</tr>
<tr>
<td>Music (Appreciation)</td>
<td>History of Art 2</td>
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**SPRING QUARTER**

<table>
<thead>
<tr>
<th>Educational Sociology 3</th>
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<tbody>
<tr>
<td>Economics or American Government 3</td>
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<tr>
<td>Modern European History 3</td>
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<tr>
<td>Biological Science 3</td>
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<tr>
<td>History of Art 2</td>
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<tr>
<td>Electives 2</td>
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**Fourth Year**

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<thead>
<tr>
<th>FALL QUARTER</th>
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<tr>
<td>Supervision of Teaching or Elective 3</td>
<td>Supervision of Teaching or Elective 3</td>
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<tr>
<td>English Literature 3</td>
<td>American Literature 3</td>
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<tr>
<td>Electives 10</td>
<td>Educational Measurements and Statistics 3</td>
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<td>Electives 7</td>
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**SPRING QUARTER**

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<tr>
<th>Philosophy of Education 3</th>
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<tr>
<td>Student Teaching 4</td>
</tr>
<tr>
<td>Electives 9</td>
</tr>
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</table>
REQUIRED SUBJECTS

For all Four-Year Curricula for the Training of Junior and Senior High School Teachers

A. GENERAL AND ACADEMIC REQUIREMENTS

(1) English—nine hours.
   English Composition 101, 102, 102a.

(2) Biological Science—nine hours.
   A biological science shall mean Botany 107, 108, 109 or Zoology 101, 102, 103.

(3) Social Science—nine hours.
   The completion of any one of the following courses will meet the social science requirement: History 101, 102, 103; History 107, 108, 109; History 113, 114, 115; Political Science 101, 102, 103; or Geography 101, 102.

(4) Foreign Language—fifteen hours.
   Students presenting two units of foreign language from High School need not take any foreign language.

(5) Personal Hygiene—three hours.

(6) Physical Education—six hours.
   Physical education is required in addition to the one hundred eighty quarter hours required for graduation.

Constants for Freshman year in all four-year curricula for the training of teachers:

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
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<tbody>
<tr>
<td>Intro. to Teach.</td>
<td>English 102</td>
<td>English 102a</td>
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<tr>
<td>English 101</td>
<td>Biological Science</td>
<td>Biological Science</td>
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<td>Biological Science</td>
<td>Social Science</td>
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<tr>
<td>Social Science</td>
<td>Physical Ed.</td>
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<td>Physical Ed.</td>
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B. PROFESSIONAL REQUIREMENTS

(1) Introduction to Teaching—3 hours. Education 101.

(2) Educational Psychology—six hours. Psychology 202, 206, or 204.


(4) School Administration—six hours. Administration 251, 252.

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

(6) Observation and Participation, including Classroom Management—five hours. Education 215.
(7) Student Teaching, including Technique of Teaching—six hours. Education 270.

(8) Electives. Fifteen hours may be offered as electives in Education from the following: General Psychology 101; Education 205, 206, 211, 229, 253, 254.

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

The minimum Educational requirements are 36 quarter hours.

The professional requirements for the various states may be secured at the Office of the Dean of the College of Education.

C. MAJOR AND MINOR SUBJECTS

At the beginning of the Sophomore year, all candidates for the degree, Bachelor of Science in Education, must choose a major and minor subject. Thirty-six hours shall constitute a teaching major, and twenty-four hours shall constitute a teaching minor. No grade of "P" will be accepted in a major and minor subject.

SEQUENCES OF COURSES IN MAJORS AND MINORS

The majors and minors recognized for certification in Ohio are the following subjects or groups of subjects. (The figures indicate the prerequisite high school units. Five additional college hours are required for each prerequisite unit lacking): English (including public speaking) 3; history (including political science) 2; home economics, 1; manual training (including vocational industrial work) 1; commercial subjects, 2; mathematics, 2; French, 2; German, 2; Greek, 2; Spanish, 2; Latin, 4; social sciences (including economics, sociology, community civics, occupations), 1; biological science (including physiology, botany, zoology, agriculture and general science), 1; physical science (including chemistry, physics, and general science), 2; earth science (including geology, physiography, and general science), 1; music, art, physical education.

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

Note: For descriptions of major and minor courses see College of Liberal Arts.
BIOLOGICAL SCIENCES

Major
First Year—Biology 107, 108, 109 or 101, 102, 103.
Second Year—Biology 101, 102, 103 or 107, 108, 109.
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.
Third Year—Chemistry 107, 108, 109; 250.
Fourth Year—Chemistry 211.

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

CHEMISTRY-PHYSICS

Major
Second Year—Chemistry 101a, 102a, 103a or 101, 102, 103.
Third Year—Physics 109, 110, 111.
Fourth Year—Chemistry 107, 108 and Physics 250 or Chemistry 250.
Note: Entrance requirements, mathematics 2 units, physics 1 unit. It is recommended that students electing this major take mathematics during the freshman year.

ECONOMICS-SOCIOLOGY

Major
Second Year—Economics 121, 122, 123.
Third Year—Sociology 201, 202, 203; Economics 207 or 216.
Fourth Year—Sociology 210, 211, 204 and Economics 204 or 218.

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 110 and 111.
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 or 129, 130, 131.
Third Year—French 218, 220 or 201, 202, 203; 250.
Fourth Year—French 226, 227, 228 or 215, 216, 217.

Minor
First Year—French 105, 106, 107; 120, 121, 122.
Second Year—French 109, 110, 111.
Third Year—French 201, 218, 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.

HISTORY

Major
First Year—History 113, 114, 115 or 101, 102, 103.
Second Year—History 116, 117, 118 or 121, 122, 123.
Third Year—History 216, 217, 218 or 219, 220, 221; 250.
Fourth Year—History 213, 214, 215, 227.

Minor
First Year—History 113, 114, 115.
Second Year—History 116, 117, 118 or 213, 214, 215.
Third Year—History 216, 217, 218.
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 207 and History 216, 217, 218 or 219, 220, 221.
Fourth Year—Economics 216 and History 210, 211, 212 or 213, 214, 215.

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 210, 212; History 250.
Fourth Year—Political Science 215 and History 210, 211, 212.
Note: Entrance requirement 2 units.
LATIN
Minor
First Year—Latin 110, 111, 112.
Second Year—Latin 113, 114, 115.
Third Year—Latin 250.
Note: Entrance requirement 4 units.

MATHEMATICS
Major
First Year—Mathematics 101, 103, 105.
Third Year—Mathematics 104; 106, 212, 250.
Fourth Year—Mathematics 213, 214, 216.
Minor
First Year—Mathematics 101, 102.
Second Year—Mathematics 105.
Note: Entrance requirement 2 1/2 units.

MATHEMATICS-PHYSICS
Major
First Year—Mathematics 101, 103, 105.
Second Year—Physics 109, 110, 111.
Fourth Year—Physics 213, 214.

PHYSICS
Minor
Second Year—Physics 109, 110, 111.
Third Year—Physics 213, 214, 215.
Note: Entrance requirements, mathematics 2 1/2 units and physics 1 unit.

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.
LATIN

Minor
First Year—Latin 110, 111, 112.
Second Year—Latin 113, 114, 115.
Third Year—Latin 250.
Note: Entrance requirement 4 units.

MATHEMATICS

Major
First Year—Mathematics 101, 103, 105.
Third Year—Mathematics 104; 106, 212, 250.
Fourth Year—Mathematics 213, 214, 216.

Minor
First Year—Mathematics 101, 102.
Second Year—Mathematics 105.
Note: Entrance requirement 2 1/2 units.

MATHEMATICS-PHYSICS

Major
First Year—Mathematics 101, 103, 105.
Second Year—Physics 109, 110, 111.
Fourth Year—Physics 213, 214.

PHYSICS

Minor
Second Year—Physics 109, 110, 111.
Third Year—Physics 213, 214, 215.
Note: Entrance requirements, mathematics 2 1/2 units and physics 1 unit.

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.
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 adviser in the Department of Physical Education.

CURRICULUM IN PHYSICAL EDUCATION

Note: For description of Physical Education courses see Department of Physical Education.

First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
</tr>
<tr>
<td>Biology 101</td>
<td>Biology 102</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
</tr>
<tr>
<td>Social Science</td>
<td>Social Science</td>
</tr>
<tr>
<td>Introduction to English 101</td>
<td>Personal Hygiene 115</td>
</tr>
<tr>
<td>Foreign Language or Electives</td>
<td>Foreign Language or Electives</td>
</tr>
<tr>
<td>3-5</td>
<td>3-4</td>
</tr>
</tbody>
</table>

SPRING QUARTER

| Physical Education 103     | 1                             |
| Biology 103                | 3                             |
| English 102a               | 3                             |
| Social Science             | 3                             |
| School Hygiene 116         | 2                             |
| Foreign Language or Electives| 3-5                          |

Second Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
</tr>
<tr>
<td>Anatomy 106</td>
<td>Anatomy and Physiology 113</td>
</tr>
<tr>
<td>*Educational Psychology 112</td>
<td>*Educational Psychology 204</td>
</tr>
<tr>
<td>School Health Problems 151</td>
<td>Health Education 152</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
</tr>
<tr>
<td>3-5</td>
<td>3-5</td>
</tr>
</tbody>
</table>

SPRING QUARTER

| Physical Education 106     | 1                             |
| Kinesiology 155            | 3                             |
| Psychology 152             | 3                             |
| Theory and Practice of     |                               |
| Plays and Games 156        | 3                             |
| Electives                   | 3-5                           |
## Third Year

### FALL QUARTER
- Prin. & Methods in P. E. 201 3
- Sociology 201 3
- *Principles of Education 152 3
- Football Coaching 221 3
- Coaching 221 (Women) 3
- Electives 3

### WINTER QUARTER
- Prin. & Methods in P. E. 202 3
- Sociology 202 3
- *Principles of Education 154 3
- Basketball Coaching 222 (Men) 3
- Coaching 222 (Women) 3
- *Observation & Participation 4

### SPRING QUARTER
- Prin. & Meth. in P. E. 203 3
- Sociology 203 or 211 3
- History of Education 210 2
- Baseball & Track Coaching 223 (Men) 3
- Coaching 223 (Women) 3
- Electives 4

## Fourth Year

### FALL QUARTER
- Diagnosis & Anthropom. 252 2
- *School Administration 251 3
- History of P. E. 260 2
- *Student Teaching 263 2
- Advanced Coaching Practice 1 5
- Electives

### WINTER QUARTER
- Diagnosis & Anthropom. 253 2
- Organ. & Admin. 254 3
- *Student Teaching 263 2
- Advanced Coaching Practice 1 7
- Electives

### SPRING QUARTER
- Individual Gymnastics 255 3
- First Aid and Massage 258 3
- *Student Teaching 263 2
- Psychology of Coaching 262 2
- Advanced Coaching Practice 1 4
- Electives

Note: Thirty-six hours of credit in educational subjects are required of all teachers in secondary education.

* Subjects required by the Ohio Department of Education for the special certificate in Physical Education and coaching.

Students not offering 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 physical education complete a minor in some field such as social science, or physical or biological science.
PUBLIC SCHOOL MUSIC

Students completing the following music curriculum will be granted the degree, Bachelor of Science in Education, with a major in Public School Music. This curriculum is designed for the preparation of teachers and supervisors of public school music. Students majoring in music must have their schedules approved by their supervisor in the College of Music.

PUBLIC SCHOOL MUSIC CURRICULUM

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

### First Year

#### FALL QUARTER
- Science: 5
- English 101: 3
- Intro. to Teach.: 3
- Sight Singing and Ear Training 101: 2
- Piano: 1
- Voice: 1
- Physical Education: 1
- Chorus: ½

#### WINTER QUARTER
- Science: 5
- English 102: 3
- Sight Singing and Ear Training 102: 2
- Personal Hygiene: 3
- Piano: 1
- Voice: 1
- Physical Education: 1
- Chorus: ½

#### SPRING QUARTER
- Psychology: 5
- English 102a: 3
- Public Speaking: 3
- Sight Singing & Ear Training 103: 2
- Piano: 1
- Voice: 1
- Physical Education: 1
- Chorus: ½

### Second Year

#### FALL QUARTER
- Educational Psychology: 3
- European History: 3
- Sight Singing and Ear Training 104: 2
- Harmony 111: 3
- History of Music 121: 2
- Piano: 1
- Voice: 1
- Physical Education: 1
- Chorus: ½

#### WINTER QUARTER
- Educational Psychology: 3
- European History: 3
- Sight Singing and Ear Training 105: 2
- Harmony 112: 3
- History of Music 122: 2
- Piano: 1
- Voice: 1
- Physical Education: 1
- Chorus: ½
### Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prin. Elem. Education</td>
<td>3</td>
</tr>
<tr>
<td>European History</td>
<td>3</td>
</tr>
<tr>
<td>Sight Singing and Ear Training 106</td>
<td>2</td>
</tr>
<tr>
<td>Harmony 113</td>
<td>3</td>
</tr>
<tr>
<td>History of Music 123</td>
<td>2</td>
</tr>
<tr>
<td>Piano</td>
<td>1</td>
</tr>
<tr>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Chorus</td>
<td>½</td>
</tr>
</tbody>
</table>

### Third Year

#### Fall Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Appreciation 231</td>
<td>2</td>
</tr>
<tr>
<td>Form 221</td>
<td>2</td>
</tr>
<tr>
<td>Primary Methods</td>
<td>2</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Adv. S. S. &amp; E. T. 207</td>
<td>1</td>
</tr>
<tr>
<td>Harmony 214</td>
<td>3</td>
</tr>
<tr>
<td>Ensemble</td>
<td>½</td>
</tr>
<tr>
<td>School Administration</td>
<td>3</td>
</tr>
<tr>
<td>Inst. Class Lesson</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Winter Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appreciation 232</td>
<td>2</td>
</tr>
<tr>
<td>Prin. of Teach. H. S.</td>
<td>3</td>
</tr>
<tr>
<td>Intermediate Methods</td>
<td>2</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Adv. S. S. &amp; E. T. 208</td>
<td>1</td>
</tr>
<tr>
<td>Harmony 215</td>
<td>3</td>
</tr>
<tr>
<td>Ensemble</td>
<td>½</td>
</tr>
<tr>
<td>Inst. Class Lesson</td>
<td>1</td>
</tr>
<tr>
<td>Form 222</td>
<td>2</td>
</tr>
</tbody>
</table>

### Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appreciation 223</td>
<td>2</td>
</tr>
<tr>
<td>History of Education (U.S.)</td>
<td>2</td>
</tr>
<tr>
<td>Junior High Methods</td>
<td>2</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Adv. S. S. &amp; E. T. 209</td>
<td>1</td>
</tr>
<tr>
<td>Harmony 216</td>
<td>3</td>
</tr>
<tr>
<td>Ensemble</td>
<td>½</td>
</tr>
<tr>
<td>Observation &amp; Participation</td>
<td>4</td>
</tr>
</tbody>
</table>

### Fourth Year

#### Fall Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Teaching</td>
<td>4</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Conducting 241</td>
<td>2</td>
</tr>
<tr>
<td>Mod. For. Language</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Chorus or Orchestra</td>
<td>½</td>
</tr>
</tbody>
</table>

#### Winter Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School Methods</td>
<td>2</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Instrumentation 235</td>
<td>2</td>
</tr>
<tr>
<td>Mod. For. Language</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Chorus or Orchestra</td>
<td>½</td>
</tr>
</tbody>
</table>

### Spring Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Teaching</td>
<td>2</td>
</tr>
<tr>
<td>Applied Music</td>
<td>2</td>
</tr>
<tr>
<td>Instrumentation 236</td>
<td>2</td>
</tr>
<tr>
<td>Mod. For. Language</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td>Chorus or Orchestra</td>
<td>½</td>
</tr>
</tbody>
</table>
GENERAL REGULATIONS

The attention of the student is called to the five general regulations of the College of Liberal Arts, page 57, which will be equally applicable to the College of Education.

HONOR STUDENTS

Seniors of the College of Education who have maintained a very high academic rating may be selected by the faculty of this college as honor students. The announcement of the persons selected is made at the beginning of the Winter Quarter.

CONDITIONS OF GRADUATION

As a condition of graduation with the degree of Bachelor of Science in Education the student must complete 186 hours, including six hours of physical education. A student graduating in the Two-Year course must complete the courses as outlined in the schedule, consisting of 96 hours, including 6 hours of physical education.

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

OHIO NORTHERN EDUCATIONAL ASSOCIATION

The Ohio Northern Educational Association holds regular meetings at which addresses and lectures are given and papers on subjects of vital importance to every teacher are read and discussed. Membership in this society is open to all students of the College of Education and College of Liberal Arts.

TEACHER PLACEMENT BUREAU

This bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought into direct communication with
school officials in search of superior teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau.

The bureau offers its services to our former graduates who may desire a change of location. We invite you to enroll with us.

No charge is made for the services of this bureau, but only teachers of merit will be registered. Make application to "Placement Bureau, College of Education."

THE SPIRIT OF THE COLLEGE

For many years the Ohio Northern University has been a popular place for teachers to attend for professional study. Here, for half a century or more, teachers from many sections of the country have come to acquire information and knowledge essential to success, and to gain inspiration for future service. To catch the spirit that prevails here and share in the enthusiasm that has always characterized the class recitations, the chapel services, the social gatherings, the public lectures, and the literary societies, will prove an inspiring influence in the life of any teacher.

Among the many features worthy of special mention, in connection with the work of the college, are the great courses of professional educational lectures and addresses, given from time to time by some of the most eminent leaders of the day in various departments of activity.

In the last analysis, the real greatness of any institution depends upon the spirit of the teachers and the ideals of the students. The spirit and attitude of those who teach in this college, their personal interest in the problems of the students, and their desire to touch young lives with hands of inspiration and helpfulness, have always been characteristic of this institution. These are some of the factors that have contributed in no small degree to its phenomenal success in the professional training of teachers.
THE SUMMER QUARTER

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

For the summer of 1929 the work will be arranged to accommodate, first, those who wish to meet only the legal requirements; and, second, those who desire to complete a course leading to a diploma and state certificate. On the completion of the Elementary Teachers' Course of ninety-six term hours, "Certificates of Professional Instruction" are issued. Students desiring full collegiate credit must register at the beginning of the Summer Quarter and continue their work during the entire quarter.

Besides the regular academic and collegiate instruction, classes are formed in all subjects prescribed by the Ohio Department of Education for professional training including physical education. Arrangements have also been made for two full courses in primary methods, including plays, games, etc.

A model school will be conducted for Observation and Participation, Practice Teaching and Demonstration for students of the elementary grades and the special fields: Music, physical education, and religious education.

For further particulars send for Summer School Bulletin.
DESCRIPTION OF COURSES

101. **INTRODUCTION TO EDUCATION (Fall)** 3 Hrs.
A guidance course designed to assist the student in the choice of teaching field; study of various phases of education; different types of schools; a general survey of the educational field. M. W. F., 7:30.

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. M. W. F., 2:30.

202. **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.

206. **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 202. M. W. F., 10:00.

152. **CHILD PSYCHOLOGY (Spring)** 3 Hrs.
Source and characteristic of original nature; social and non-social instincts; attention, sense perception, imagination, thinking, habit, play; moral development, physical development; exceptional children. M. W. F., 2:30.

204. **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.

PRINCIPLES AND HISTORY OF EDUCATION

152. **PRINCIPLES OF 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 EDUCATION (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. Prerequisite: Education 112. M. W. F., 9:00.

153a. PRINCIPLES OF EDUCATION—
KINDERGARTEN-PRIMARY THEORY  (Fall)  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 teaching of kindergarten-primary children. M. W. F., 9:00.

207. PRINCIPLES OF EDUCATION—HIGH SCHOOL
(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 (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 textbooks; and the most approved methods of teaching in high school. Prerequisite: Psychology 101. M. W. F., 9:00.

209. 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., 10:00.

210. 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.

254. PROBLEMS OF EDUCATION  3 Hrs.
This course is for seniors in education. Selected problems in education will be considered; investigations of current educational theory and practice; reviews and discussions of recent books and magazine articles in education. Throughout the year by special arrangement with the Dean and professor in charge. M. W. F., 1:30.
211. Educational Sociology (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 educational surveys and vocational courses from the utilitarian viewpoint. Prerequisites: Sociology 201 and 202. M. W. F., 9:00.

SCHOOL ADMINISTRATION AND ORGANIZATION

107. Organization and Administration of Elementary Schools (Fall)  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 these fields. Attention will be given to Ohio school laws relating to elementary schools and elementary teachers. M. W. F., 10:00.

251. School Organization and Administration (Fall)  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., 1:00.

252. High School Administration (Winter)  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., 1:00.

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 AND METHODS COURSES

117. PRIMARY READING AND CHILDREN'S LITERATURE
(Fall) 4 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. M. T. W. Th., 1:30.

117a. PRIMARY READING AND CHILDREN’S LITERATURE
(Spring) 4 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. M. T. W. Th., 1:30.

118. INTERMEDIATE READING AND JUVENILE LITERATURE
(Fall) 4 Hrs.
This course consists of various methods of teaching silent reading; the literature of the intermediate and grammar grades; historical background of both the subject and methods used and a survey of recent investigations made in reading and literature. Creative work. Lesson plans. M. T. W. Th., 9:00.

118a. INTERMEDIATE READING AND JUVENILE LITERATURE
(Winter) 4 Hrs.

159. PRIMARY LANGUAGE (Fall) 2 Hrs.
Brief history of the English language; inductive study of a need for the subject; principles of selecting material for teaching the subject; preparation of teaching materials; methods of procedure most helpful in securing growth in oral and written expression; comparison of courses of study; evaluation of textbooks; picture study; methods in spelling. T. Th., 7:30.

160. INTERMEDIATE LANGUAGE (Winter) 2 Hrs.
Study of investigations; history of the development of the English language; psychology of the subject; principles of selecting material for the teaching of the subject; methods of stimulating oral and written expression; comparison of courses of study; evaluation of text books; methods in spelling. T. Th., 10:00.
105. **INTERPRETATION 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.

106. **INTERPRETATION AND SPEECH IMPROVEMENT**  
(Fall)  
2 Hrs.

A course similar to Speech 105, but designed for teachers of the intermediate grades. T. Th., 4:30.

118. **PROFESSIONALIZED SUBJECT MATTER IN ARITHMETIC FOR PRIMARY TEACHERS**  
(Winter)  
4 Hrs.

Fundamental operations with integers, fractions, decimals with methods of checking; percentage with business operations; mensuration; history of elementary mathematics; tests and remedial work; principles of selecting material for teaching primary arithmetic; preparation of these materials. M. T. W. Th., 1:30.

119. **MATHEMATICS IN THE KINDERGARTEN-PRIMARY GRADES**  
(Spring)  
4 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. M. T. W. Th., 11:00.

120. **INTERMEDIATE MATHEMATICS**  
(Winter)  
4 Hrs.

This is a professionalized course in mathematics for teachers of the intermediate grades. It will consist of the following: The psychology of the subject, fractions, decimals, mensuration, percentage and interest, the use of the equation, bank and commercial discount, thrift, stocks, bonds and other investments. Modern business methods will be considered. M. T. W. Th., 11:00.

120a. **INTERMEDIATE MATHEMATICS**  
(Spring)  
4 Hrs.

Continuation of course 120. The following topics will be treated: A brief history of the subject, tests, measurements, remedial work, and a presentation of the practical implications of important mathematical investigations. A brief survey will be given to the fundamental operations with methods of checking. A brief summary of Course 120 and 120a. M. T. W. Th., 11:00.

155. **PROFESSIONALIZED SUBJECT MATTER IN GEOGRAPHY**  
(Fall)  
4 Hrs.

Weather observations; geographical controls; continent study; physical geography necessary to show relationships between man and his environment; industry as the key to a region; a brief history of the growth of geography; collections of pictures, maps, and raw materials that will aid in making clear interpretations of various regions. 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 textbooks. M. T. W. Th., 11:00.

157. Intermediate Geography (Fall) 4 Hrs.

This is a professionalized subject matter course in geography for intermediate grade teachers. Modern methods will be discussed. The principles of teaching geography will be applied to the study of definite regions. Collections will be made of teaching materials such as pictures, raw materials, and maps. M. T. W. Th., 9:00.

158. Intermediate Geography (Winter) 4 Hrs.

This course deals with the materials and methods of geography for the elementary grades. The following are some of the topics treated: Materials of the earth, forces and processes, changing the surface of the land, major physio-graphic features; their origin and influence upon man. This course is professionalized in selection and treatment. M. T. W. Th., 9:00.

167. Geography of North America, South America and Europe (Winter) 4 Hrs.

Continents are divided into natural regions or economic districts, each of which is studied with regard to its physical features, resources, industrial and social prospects. Emphasis is placed upon the environmental elements of relief, climate, soils, mineral resources, and location in relation to the political and economic development of the several countries. M. T. W. Th., 2:30.

168. Geography of North America, South America and Europe (Spring) 4 Hrs.

Continuation of Course 167. Attention to the field of possible trade developments with the United States, and consequent economic and social development of these countries. In both courses, the methods of presenting these topics to high school students will be emphasized. M. T. W. Th., 2:30.

123. Educational Biology (Fall) 3 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.
165. **Nature Study (Spring)** 3 Hrs.
This course is intended to supply prospective teachers with materials and methods of arousing in children a proper appreciation of nature and a knowledge of the common facts and phenomena with which all have daily contact. Among the topics studied are animals of pond and stream, insects, and insect allies, birds, and common trees. M. W. F., 4:30.

116. **School Hygiene (Spring)** 2 Hrs.
A course designed to cover the organization and administration of those agencies of health and hygiene which the school can promote directly or indirectly through its various health agencies. It includes medical supervision, physical education, school sanitation, the teaching of hygiene, and the hygiene of instruction. T. Th., 10:00.

156. **Theory and Practice of Plays and Games (Spring)** 3 Hrs.
A theory and practice course dealing with the theories of play, and the types of plays and games suitable for the various age groups in the elementary schools. Two hours of theory and two hours of laboratory per week. T. Th., 2:30.

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.

**Public School Drawing and Industrial Arts**

- **Public School Drawing and Industrial Arts I (Fall)** 2 Hrs.

- **Public School Drawing and Industrial Arts II (Winter)** 2 Hrs.
This course deals with the aim and scope of Art Education as applied to the primary grades. Projects involving a consideration of the child's interests and standards of attainment. The activities include paper cutting, clay modeling, crayola and pencil drawing, etc. T. Th., 1:30-3:30.

- **Public School Drawing and Industrial Arts III (Fall)** 2 Hrs.

- **Public School Drawing and Industrial Arts IV (Winter)** 2 Hrs.
The object of this course is to present the art materials for the upper grades: Pencil, crayon, brush, ink, water color, and constructive materials. Technical practice in representative art projects, together with a consideration of the methods of teaching. T. Th., 3:30-5:30.

For History of Art, see Courses 201, 202, 203, in Fine Arts in College of Liberal Arts.
124. **PUBLIC SCHOOL MUSIC I (Fall)** 1 Hr.

Beginning work in theory of music which includes the use of the staff, notes, rests, keys and key signatures for major scales, syllables, and simple oral and written tonal dictation using only scale-wise progressions. Rote songs, sight singing materials and song material for different occasions are given. T. Th.

125. **PUBLIC SCHOOL MUSIC II (Winter)** 1 Hr.

A continuation of Course No. 124 which presents chromatic tones and the minor scale. Oral and written dictation including skips and chromatic tones. Rote songs for intermediate grades. Prerequisite: Public School Music 124. T. Th.

126. **PUBLIC SCHOOL MUSIC III (Spring)** 1 Hr.

Beginning of metric dictation. Song material in one and two parts. Use of phonograph records for appreciation material. Dictation including wider skips and chromatics. Prerequisite: Public School Music 125. T. Th.

171. **PUBLIC SCHOOL MUSIC IV (Fall)** 1 Hr.

Use of bass clef and three forms of minor scales. Two and three part songs. Rote songs suitable to different grades and occasions. Appreciation through phonograph records. Prerequisite: Public School Music 126. T. Th.

172. **PUBLIC SCHOOL MUSIC V (Winter)** 1 Hr.

Methods for presenting materials. Advanced sight singing; tonal and rhythmic dictation, appreciation. Prerequisite: Public School Music 171. T. Th.

**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 the 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. 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) 4 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 102. Conferences, T. Th.

123. Observation and Participation (Spring) 4 Hrs.
A course for those desiring to teach in the intermediate grades, similar to Course No. 122. Prerequisite: Education 102. Conferences, T. Th.

215. Observation and Participation (Fall, Winter) 4 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. T. Th.

STUDENT TEACHING

Student teaching will be required of all candidates for the degree, Bachelor of Science in Education or of all candidates for the degree, 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 (1¼) quality points per hour. This means that a student must have a rank of Av. 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 rank of less than Av. plus or G 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 the Training School. 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.

A course for students wishing to specialize in the teaching of the intermediate grades. This course is similar to Course No. 170. 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)*

3 Hrs.

Students taking four-year course for the training of physical education supervisors and teachers will be required to do practice teaching in the elementary and secondary schools.

272. **Practice Teaching—Public School Music**

*(Fall, Winter, or Spring)*

6 Hrs.

Students will be required to make lesson plans and to do teaching under supervision in both the elementary and secondary fields.
COLLEGE
OF
ENGINEERING

JOHN ALFRED NEEDY
Dean
ADMISSION TO COLLEGE OF ENGINEERING

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 Language
- History

Applicants who lack certain preparatory units, particularly Mathematics and Science, should arrange for upgrading work in sub-freshman classes.

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 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, bearing his name and 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 without special preparation, not candidates for a degree, may be admitted without having met the requirements, 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 will be presented to them.

The official form for Certificate of Entrance, which may be had on application to the Entrance Examiner, should be used in all cases, in order to insure the presentation of necessary information.

DEGREES

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 presentation of creditable record and approved thesis, the regulation degree will be conferred. The College accepts grades of equal value from other institutions of learning, but an applicant for a degree must do at least one year's work here.

Two hundred and sixteen (216) credit hours are required for graduation.

Two or three hours field or laboratory work constitute one credit hour.

The granting of degrees is in the hands of the graduation committee of which the Registrar is chairman. Recommendation to this committee may be made by the faculties of the separate colleges. The eligibility of each candidate receives individual consideration.

A student cannot be a candidate for more than one professional degree at any one time.

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.
CIVIL ENGINEERING

In the broader sense civil engineering includes all divisions of the field. Many of its former departments have grown into separate professions, yet there still remains a broad and important field offering greater opportunities than ever before. No sharp line of distinction can be drawn between the provinces of the civil, electrical, and mechanical engineers. This is evident from the large number of subjects studied in common by all students of the various engineering departments, for the basic engineering sciences, mathematics, physics, chemistry and some applied science are required in all the departments.

A careful study of the schedule and of the description of courses will give the prospective student a good idea of the broad field covered by our courses in civil engineering.

Practically all the local improvements are under the direct supervision of the College of Engineering. Many thousands of dollars have been expended the past few years for street paving, macadamizing, sewerage, etc., the major portion of the engineering work being done by the students themselves.

The college 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 been recently completed.

The following is a schedule of courses offered, showing the number of credit hours per week devoted to each subject:
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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 courses of study, is, in the main, the same as that in Civil and Mechanical Engineering curriculum, including the fundamental engineering sciences, mathematics, drawing, and surveying.

The second half consists of courses of study in strength of materials, hydraulics, thermodynamics, advanced study 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 in the operation of power plant machinery. Throughout, the student is drilled in the solution of many numerical problems with a view to a firm grasp of the theory.

In addition to an excellent Physical Laboratory, the department has a well equipped Electrical Laboratory. An up-to-date steam engine-driven electric lighting system has been installed for lighting the University buildings and grounds, and for driving the ventilating motors. The University power plant comprises steam and gas engine units. To prevent interruption of service, storage batteries have been installed. These batteries are available for test, and form an important addition to the laboratory equipment. 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.

A complete and modern steam heating, electric lighting, and water pumping plant was installed in 1922.
This plant includes high pressure steam boilers, steam engines, and a complete water system. Students in Electrical and Mechanical Engineering are required to take a certain amount of power plant operating experience in the senior year.

The following is a schedule of the course offered, showing the number of credit hours per week devoted to each subject:

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Total number 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 the basic engineering studies. 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 convenience for making tests on boilers, heating apparatus and power apparatus. In addition the central lighting and pumping plant of the Ada Water and Light Co., with its equipment of Deisel engines, high pressure pumps, et cetera, is open to the students for inspection and test.

A machine shop has been added to the laboratory equipment, giving opportunity for training in the use of tools and general machine shop practice.

The following is a schedule of the courses offered showing the number of credit hours per week devoted to each subject:
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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.

The following is the schedule of the course offered showing the number of credit hours per week devoted to each subject:

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Total number of hours for graduation 216.
Attendance at Engineering Lectures required.
Attendance on Inspection Trip required during third year.
STUDENTS' 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 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.

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 to 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.

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.

In honor of George Washington, "Surveyor, Soldier, Statesman," the above societies during the week of February 22, hold an annual exhibit and banquet.

During the past year the following prominent engineers lectured to the students: Mr. John Roche, Engineer, Wilbur
### SCHEDULE OF CLASSES

*For the School Year 1929-30*

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Wright Field, Dayton, Ohio; Mr. R. P. Withrow, Head of the Department of Chemical Engineering, Ohio State University, Columbus, Ohio; Mr. Durk Schregardus, Transmission Engineer, Ohio Bell Telephone Co., Cleveland, Ohio; Mr. C. E. McClintock, Engineer and Lecturer, Warren Brothers Company, Boston, Mass.; Mr. J. E. Griffin, Field Engineer, National Paving Brick Manufacturers' Association, Washington, D. C.; and Mr. Irving C. Brower, City Manager, Lima, Ohio.

THE ANNUAL INSPECTION TRIP

The junior class devotes one week to an extended visit to some large commercial center. The class spends every minute profitably in the study of various phases of engineering and industrial activity in Chicago, Gary, Fort Wayne, 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

For description of courses see special Engineering Bulletin.
THE WARREN G. HARDING
COLLEGE OF LAW

WILLIAM PRICE HENDERSON
Dean
WHEN ORGANIZED

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

ITS PURPOSE

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

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

In the training of students for the practice of law, the college has four chief aims:

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

(b) Subordinately, but as an essential feature of the work of the college, to give special instruction preparatory to the state examinations for admission to the bar. This special instruction consists of a thorough review of the whole course and covers the period of the entire Spring Quarter.

(c) To impart a working knowledge of statute law and the lawyer's public responsibility, to the end that the young lawyer may intelligently and readily serve his clients.

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

The 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, is now in use. It is designed to furnish a convenient, commodious, and modern home for the College of Law. It has ample facilities to meet the increasing enrollment in this department of the University.

Moot Court

In the new law building there is a court room, completely and correctly furnished and equipped according to modern court procedure, and moot court, under the direct supervision of the faculty, will continue to form a regular part of the work, in which each student must participate. The student is required to get out all the papers necessary for the case, and to follow the customary order of procedure. Pleadings, writs, motions, and journal entries, together with the principles of proceedings in appeal and error, are supervised in detail; juries are chosen, witnesses examined, motions heard, and everything is made to conform as nearly as possible to the practice of the regular courts.

In connection with the Moot Court practice, a course in legal bibliography and research is given, thus training the student in the use of the various legal reports and treatises.

Method of Instruction

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

The instruction is based upon the text or casebook assigned for study, combined with a judicious use of Ohio cases, and completed with a thorough "quiz," under the personal instruction of the faculty, preparatory to examinations for admission to the bar.

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

EXPENSES

For expenses see earlier pages of this catalogue.

UNIVERSITY FACILITIES

To provide ample opportunity for the student to acquire such pre-legal scholastic training as he might desire, and to enable him to meet the requirements of admission as a candidate for a degree, the College of Liberal Arts of this University is offering a course in pre-law study, likewise an arts-law course, and business-law course. The combined arts-law and business-law courses, which may be completed in six years, will entitle the student to the degree of Bachelor of Arts at the end of his fourth year of study, and to the degree of Bachelor of Laws at the end of his sixth year. Thus, this University is endeavoring to give every student such opportunity for self-development as he may desire. The faculty of the College of Law highly recommend these courses as a preliminary training for the law student.

ADMISSION TO THE COLLEGE OF LAW

Students of good moral character may enter the College of Law at any time, but in order to receive full credit toward a degree they must enter at the beginning of the quarter; to receive the fullest benefit of the regular course, students who expect to be candidates for a degree are urged to enter in September, the beginning of the academic year.

ENTRANCE REQUIREMENTS

The prospective student will note carefully the changing requirements for admission as a candidate for a degree in the College of Law. These changes comply with the requirements laid down by the Supreme Court of the State of Ohio as to the scholastic training each student must have before he may register with the Court as a candidate for the bar.
1. Certificate. Each person wishing to be enrolled in the College of Law is requested to have a certificate of his High School graduation, and a certified transcript of his college work sent by the principal of the respective schools directly to the University. This certificate should be in the Entrance Examiner's office ten days prior to the opening of the quarter to avoid delay in registration. This request must be complied with in order to enable the College of Law to register the student with the Supreme Court of Ohio, as an eligible candidate for the State Bar Examinations.

2. Advanced Standing. Advanced standing will be given upon certificate for not more than two years of study of law in residence at any reputable law school in the United States maintaining a three-year full time course of study, and proper credit will be given, upon certificate, for study in residence at any reputable law school in the United States maintaining a time course of study less than three years in length.

Proper credit will be given, upon certificate and examination upon subjects for which advanced credit is desired, for work done in reputable part time law schools, having regard to the time devoted to such subjects in such schools, as compared to the time required therefor by the course of study prescribed by this College of Law.

All examinations required under the next preceding paragraph must be taken within two weeks after matriculation and are subject to a special fee.

3. Special Student. Persons not candidates for a degree, who may have sufficient experience and training to study law with profit, may enter the College of Law as special students, even though they cannot meet the admission requirements for a degree. Any one desiring to enter this College as a special student should correspond with the Entrance Examiner of the University.

Persons who desire more information with reference to preliminary education required, should present their cases to the University Entrance Examiner by correspondence.
OUTLINE OF COURSES

A credit hour is given for the satisfactory completion of work requiring one class period a week for one quarter.

First Year

**FALL QUARTER**   **WINTER QUARTER**   **SPRING QUARTER**
Civil Procedure 3    Agency 5    Criminal Law 5
Personal Property 3    Torts 3    Torts 4
Domestic Relations 3    Real Property I 3    Real Property II 3
Contracts I 5    Contracts II 4    Quasi-Contracts 3

Second Year

**FALL QUARTER**   **WINTER QUARTER**   **SPRING QUARTER**
Wills 5    Sales 3    Equity I 5
Real Property III 3    Real Property IV 3    Mortgages 3
Neg. Insts. 4    Future Interests 3    Suretyship 4
Partnership 3    Damages 3    Mun. Corporations 3
Private Corporations 3

Third Year

**FALL QUARTER**   **WINTER QUARTER**   **SPRING QUARTER**
Pleading I 3    Pleading II 3    Insurance 3
Evidence I 3    Evidence II 3    Conflict of Laws 2
Constitutional Law 4    Constitutional Law II 2    Public Service Corp. 3
Equity II 5    Trusts 5    Fed. Procedure and Jurisdiction (including Bankruptcy) 4
Practise 2

N. B. The spring quarter for the third year has been extended to 16 weeks, thus enabling the general review to be given up to the week preceding the State Bar Examination; there is a corresponding increase in tuition charges for this quarter.

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

Students who have completed the work listed in Outline of Courses, but, because of unexcused class and chapel absences, have had their total credit hours reduced, must make up the deficiency by completing such work in the College of Liberal Arts as the Dean of the College of Law may prescribe.
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 18 credit hours per quarter. Special students may not become candidates for a degree.

2. Hours above eighteen are considered as excess and are subject to special tuition rates. Only in very rare cases are regular students granted excess hours.

3. Physical Education is required during the first six quarters of residence. One credit hour each quarter.

4. Chapel and class attendance are compulsory. The rules as given under Government in an earlier section of this catalogue are strictly enforced.

5. Preregistration not only consists in procuring a registration card from the registration secretary but also the completion of the student’s schedule by the Dean on the same day that the card is procured. Violation of this rule imposes the penalty for late registration.

GRADUATION

The degree of Bachelor of Laws is conferred on students (1) who have completed satisfactorily the prescribed course of study as set out in the section entitled “Outline of Courses,” or who have received credit therefor in accordance to the section entitled “Advanced Standing,” and (2) who have studied in residence at this College for at least three quarters immediately preceding graduation.

The completion of the course of study as set out in the “Outline of Courses,” 127 quality points and six hours of physical education, are required for graduation.
SUMMER QUARTER

The Summer Quarter is a special quarter of six weeks; regular courses in the College of Law are offered under the instruction of members of the Faculty, and full credit is given for work done. This quarter affords an excellent opportunity for teachers and others, who, for reasons of health or finance, have been unable to be in attendance during part of the regular college year. There is no prescribed schedule of work for the Summer Quarter, but classes are formed in such of the regular subjects as may best meet the requirements of those in attendance during this quarter.

SPECIAL BULLETIN

The special bulletin of the College of Law containing detailed information concerning the courses and regulations, will be sent upon application to the Secretary of the University.
A. D. JUILLIARD
COLLEGE OF MUSIC

MARK EVANS
Dean
AIM

The aim of the College of Music is to offer a thorough musical education to those students who desire to become professional musicians and to those who study music solely for its cultural value. Like all other fine arts, music is a means of self-expression; therefore, a high degree of skill is necessary for specialization. A careful and adequate training in music develops the ability of the student to appreciate and understand this fine art.

ADMISSION

Students who expect to enter the College of Music must present entrance credits which would be accepted by the University Entrance Examiner for admission to the College of Liberal Arts.

GRADUATION

1. The Bachelor of Music degree is granted to students who have satisfactorily completed one of the four-year curricula with a major in voice, piano, organ, or violin. To receive this degree, the student must have a thorough musical foundation and be especially gifted in musical ability.

2. A diploma in music is awarded to students who have satisfactorily completed the first three years of one of the four-year curricula, including a public recital.

3. A certificate crediting the student with work done is given to students who are not high school graduates. Such persons are classed as Special Students and may elect courses for which they have proper preparation.

Credit will be given for work done in music elsewhere, but two years study in the major subject must be done at the Ohio Northern University. In exceptional cases this requirement may be modified by the Dean.

Three quarters of residence are required.
ARTS-MUSIC

The College of Liberal Arts allows a major of thirty-six hours of music toward the Bachelor of Arts degree. See department of music under College of Liberal Arts.

EDUCATION-MUSIC

Students in the College of Education may major in Public School Music. See outline of Public School Music curriculum under College of Education.

CREDITS IN OTHER DEPARTMENTS

To receive credit for Applied Music, students in Liberal Arts or Education must qualify for fourth grade standing. To do this it will be necessary to perform some of the numbers listed below. Other pieces of similar grade of difficulty may be accepted in lieu of those listed.

Fourth grade standing is judged, not merely by the pupil's ability to play the notes correctly and with the necessary amount of technical freedom, but by a combination of this with a certain amount of musical intelligence and interpretative understanding.

VOICE

Scales and arpeggios in moderate tempo.
Exercises designed to show the condition of the voice as to freedom, production, and facility.
Any of the simpler songs by Schubert, Schumann or Mendelssohn.
Fontenailles, Obstination.
At Parting, Rogers.
Any of the simpler songs by MacDowell.
Giordani, Caro mio ben.
(Songs in a foreign language may be sung in English.)

PIANO AND ORGAN

Bach, Two-part Invention.
Mozart, Sonata in C.
Schubert, Moment Musical in F Mi.
MacDowell, Woodland Sketches.
Debussy, Deux Arabesques.
Ferrari, Oudoument.
Nevin, A Shepherd's Tale.
Pfitzner, Summer Night.

VIOLIN

Kayser II and III.
Sevcik and Bytovetski.
Technique.
Mazurka, Mlynarsky.
Mazurka de Concert, Musin.

Seitz, Concertos No. 1 and 3.
Singelee, Fantasias.
Borowski, Adoration.
Gossec, Gavotte.
Cesar Cui, Oriental.
MUSICAL ORGANIZATIONS

Choral Society. The Choral Society is made up of university students and townspeople and is open to all singers who love good music. The society meets once a week during the first three quarters. The fees charged are nominal. Two public performances of standard oratorios are given each year.

Men’s Glee Club of the best voices in the University is trained in the old traditional glees and modern part-songs. The club makes an annual tour and competes in the state contest.

Girls’ Glee Club takes up the same line of work as that done by the men.

Orchestra. The University Orchestra is under the direction of Mr. Willihnganz. Standard concert material is rehearsed and played in programs at the University and out-of-town. A small orchestra from its ranks furnishes the accompaniments for “The Messiah,” and “Elijah,” presented by the Choral Society. This work will be continued the coming year but on a broader plane. Rehearsals Monday and Wednesday at 4:30 and Thursday at 7:30 p.m.

Band. A seventy-five piece band, under the direction of Mr. Michael Mazzulla is maintained, affording an opportunity for study and practice to students playing brass or reed instruments. Daily rehearsals, study of scores of classical and standard overtures.

The Ohio Northern University Band has increased both in size and ability until it has gained an enviable reputation in college circles.

During the school year the band appears upon the lyceum programs of a number of different high schools in the state.

Every term the band appears in a grand concert in Lehr Auditorium. The program consists of standard and classical numbers as well as instrumental and vocal solos.
Junior Band. Every year a junior band is organized for the purpose of training students who lack enough experience to obtain admission to the Varsity Band. Beginners in music form the largest portion of the membership.

Credit is allowed students enrolled in the Colleges of Liberal Arts and Education for Choral, Glee Club, Orchestra, and Band Work.

Recitals

Student Recitals: Held usually once every two weeks to enable the student to gain confidence and exhibit the progress he has made.

Faculty Recitals: Given at intervals and designed to further the musical education of the students.

Artists Series: Outstanding personalities and organizations of the musical world are engaged and students are afforded an opportunity of hearing them at a minimum cost.

Tuition

(Prices are for a quarter of twelve weeks unless otherwise stated)

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, Voice, Piano, etc., two lessons a week .................................. 21.00
One lesson a week .................................................. 10.50
Single lesson .......................................................... 2.00
Public School Music ................................................. 75.00

Children's Department

Piano or Violin, two lessons a week .......................... $22.00
One lesson a week .................................................. 12.00
Single lesson .......................................................... 1.25
CLASS LESSONS
All class instruction in Theoretical Music and Band
  Training, two hours a week ........................................ 9.00
  Three hours a week .............................................. 13.50

EXPENSES
Piano rent, one hour per day, per quarter ....................... 3.50
Rent of Pipe Organ for practice, one hour a day
  per quarter .................................................. 12.00

GRADUATION FEES
Bachelor of Music ..................................................... $7.00
Diploma in Music .................................................. 7.00
Certificate in Music .............................................. 2.00

SCHOLARSHIPS
Friends of the institution have made four music scholarships available. Two of these are given by Mrs. Avanell C. Stambaugh. The name of the donor of the other two is withheld by request. The award is made by the President of the University and the Dean of the College of Music. Preference is given to those who wish to take up the teaching of music.

REGULATIONS
1. All tuition payable in advance.
2. Lessons lost with reasonable excuse will be made up when a pupil has given the instructor twenty-four hours notice of intended absence.
3. Students registering within a quarter are charged for one extra lesson.
4. All students who are making music their main study and students receiving College credit for music must attend all recitals and student recitals.

REFUNDING
See earlier pages of this catalogue.
Description of Courses

Applied Music

VOICE

DEAN EVANS

The course aims 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.

VOICE 151, 152, 153

Breathing. Tone production. Exercises. Easy songs in English and foreign languages.

VOICE 154, 155, 156

Continuation of first year. Vocalizes. Easier Recitatives and arias from standard operas and oratorios. Songs in several languages.

VOICE 251, 252, 253


VOICE 254, 255, 256


A considerable amount of memorizing will be required throughout the course.

All vocal students are advised to study at least one modern language: French, German or Italian.
PIANO

PROFESSOR LAMALE, MISS PHILLIPS AND MRS. IRICK

Instruction in piano playing involves a special adaptation to the needs of the individual pupil. A minute study of each student's deficiencies and previous habits of work is made and technical studies and 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

Daily studies, Czerny, Octave Studies, Kullak. Solo works of great difficulty by Schumann, Chopin, Liszt, Henselt, Moszkowski. Concertos by Mozart, Hummel, Mendelssohn, St. Saens, Grieg, etc.

COURSES FOR CHILDREN

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

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

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

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
The Technique and Art of Organ Playing by Dick-
Easy Hymns.

ORGAN 154, 155, 156
Rheinberger Trios. Eight Short Preludes and
Fugues by Bach. Nilsson Pedal Studies. The easier
pieces by Guilmant, Dubois, Batiste, Faulkes, Lemare,
and others. Hymns of any difficulty.

ORGAN 251, 252, 253
Trios by Bach. Preludes and Fugues by Bach.
Choral preludes. Sonatas by Mendelssohn. Pieces of
medium difficulty by Guilmant, Dubois, Gigout, Widor,
Lemare, Hollins, etc.

ORGAN 254, 255, 256
Preludes and Fugues, Books III and IV, Bach.
Sonatas by Guilmant, Gigout, Thiele, and Lemmens.

VIOLIN

PROFESSOR WILLIHNGANZ

Elementary Department

A thorough grounding in the fundamentals of
violin playing in the first position as to position,
bowing, intonation, and tone. Fischel's Graded Course,
Books I and II, scales, double stop studies, and suitable
solos with piano accompaniment are the materials
used.

Intermediate Department

The higher positions, further development of
bowing, intonation, and tone. Fischel's raded Course,
Books III and IV. Maza's Etudes, Schradieck's School
of Technic are used in conjunction with useful recital
pieces and student concertos.

Collegiate Department

VIOLIN 151, 152, 153.
Kreutzer's Etudes, Fischel's Scales, Casorti's
"Technique of the Bow," Handel's Sonatas, Mozart's
Sonatas, Kreutzer and Viotti's concertos, smaller num-
bbers by Kreisler, De Beriot, Burleigh and others.
VIOLIN 154, 155, 156.

VIOLIN 251, 252, 253.
Rode and Gaviniès' Etudes. Wieniawski and Vieuxtemps' Concertos, Sonatas and solo material from nineteenth and twentieth century repertoire.

VIOLIN 254, 255, 256,

REED AND BRASS INSTRUMENTS

PROFESSOR MAZZULLA

To meet the constantly increasing demand for band and orchestra conductors and for players of reed and brass instruments the College of Music offers courses of instruction.

COURSE OF INSTRUCTION

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, will constitute the major subject. Class instruction in which the student will be given a playing knowledge of every band instrument will also be included.

DESCRIPTION OF COURSES

BAND TACTICS 2 Hrs.
A study of band maneuvers, evolutions and practices, Formations, Drum Major's signals.

BAND TRANSCRIPTION 2 Hrs.
Detailed study of the classification of instruments, acoustic knowledge with reference to transcription, instrumentation, relative dynamic values of band instruments with individual and collective compass, transcription from various scores, character of tone, grouping of instruments, combinations, contrast and similarities.

BAND ORGANIZATION 1 Hr.
Theoretical and practical work in organizing bands. Practical work with the junior band under the supervision of the instructor.

BAND ARRANGEMENT 1 Hr.
In this course attention is given to the study of classical scores and original work in combining instruments.
Theoretical Music

DEAN EVANS, PROFESSOR WILHELM GANZ, PROFESSOR LAMALE, MISS PHILLIPS, MRS. MOWEN, MISS WILLIS

A knowledge of the science of music and all phases of its structure is an essential part of a well rounded musical education, necessary alike, for the creative and recreative artist. For those who wish merely to gain a more intelligent appreciation of music, a carefully chosen course of theoretical study will be found of great benefit.

Courses in the Theory of Music will not be given if the enrollment is less than five.

EAR TRAINING AND SIGHT SINGING

First Year

101. EAR TRAINING AND SIGHT SINGING (Fall) 2 Hrs.
Recognition of tones in different registers. Study of meter and rhythm, key signatures (major and minor), rest and active tones. Drill in combining rhythm and pitch Dictation.

102. EAR TRAINING AND SIGHT SINGING (Winter) 2 Hrs.

103. EAR TRAINING AND SIGHT SINGING (Spring) 2 Hrs.
Melody study continued. Study of period form in parallel and contrasting construction. Writing of melodic figures with repetition and sequence. Dictation. Setting words to music.

Second Year

104. EAR TRAINING AND SIGHT SINGING (Fall) 2 Hrs.

105. EAR TRAINING AND SIGHT SINGING (Winter) 2 Hrs.

106. EAR TRAINING AND SIGHT SINGING (Spring) 2 Hrs.
Third Year

207. EAR TRAINING AND SIGHT SINGING (Fall) 1 Hr.  
Harmonic analysis by ear of standard hymns and reading of standard and modern chorus scores.

208. EAR TRAINING AND SIGHT SINGING (Winter) 1 Hr.  
Harmonic analysis by ear of standard chorals and reading of oratorical scores.

209. EAR TRAINING AND SIGHT SINGING (Spring) 1 Hr.  
Same as Winter Quarter with additional reading of opera scores.

HARMONY

111. HARMONY (Fall) 3 Hrs.  
A study of the building and naming of scales, intervals, and chords. The connection of primary triads and their inversions. Cadences. Prerequisite: The ability to play common hymns at the piano at sight.

112. HARMONY (Winter) 3 Hrs.  
Secondary chords and their inversions, the dominant seventh, keyboard application of the work.

113. HARMONY (Spring) 3 Hrs.  
Inversions of the dominant seventh, modulation; the same at the keyboard.

214. HARMONY (Fall) 3 Hrs.  
Secondary seventh chords, chromatic alterations; keyboard work.

215. HARMONY (Winter) 3 Hrs.  
Modulation, non-harmonic tones, keyboard work.

216. HARMONY (Spring) 3 Hrs.  
Harmonic analysis of selections from the master works of music, ancient and modern.

COUNTERPOINT

201. COUNTERPOINT *(Fall) 2 Hrs.  
Strict Counterpoint of all species in two voices.  
Prerequisite: Harmony 116.

202. COUNTERPOINT (Winter) 2 Hrs.  
Florid counterpoint in three, four and five voices.

* Counterpoint will not be taught Fall Quarter in 1929 on account of regular students having to finish Harmonic Analysis.

Counterpoint will be taught as a three-hour course Winter and Spring Quarters of this year.
203. **Counterpoint** *(Spring)*  
Imitation, double counterpoint, choral, and string quartet writing.

204. **Canon** *(Fall)*  
Canon at the octave and the fifth in two voices, accompanied canon, canon in three and four voices.

205. **Fugue** *(Winter)*  
Subject and answer, counter theme, episode, stretto and coda in two-voiced fugues, three-voiced fugues, double fugues.

**Musical Form**

211. **Form** *(Fall)*  
The musical sentence and its division into phrase, section, and motive; extensions, and double periods.  
Prerequisite: Harmony 216.

212. **Form** *(Winter)*  
Two and three-part song forms; the theme and variations; the rondo, dance forms.

213. **Form** *(Spring)*  
Cyclic forms, the suite, sonatina, sonata, and symphony.

214. **Form** *(Fall)*  
Analysis of Beethoven sonatas.

215. **Form** *(Winter)*  
Analysis of modern music.

211, 212, 213, 214, 215. **Composition**  
Credit to be arranged. Application of the principles of form to free composition.

**History**

121. **History of Music** *(Fall)*  
2 Hrs.

122. **History of Music** *(Winter)*  
2 Hrs.

123. **History of Music** *(Spring)*  
2 Hrs.

A survey of the history of music from the earliest times to the present day. Musical illustrations are used and the course is linked up with the lectures on Appreciation.

**Appreciation**

231. **Appreciation** *(Fall)*  
2 Hrs.

232. **Appreciation** *(Winter)*  
2 Hrs.

233. **Appreciation** *(Spring)*  
2 Hrs.

The aim of this course is to acquaint the student with as much of the literature of music as possible and, through analysis and explanation, make him an intelligent listener. The fields of vocal and instrumental music are explored and illustrations supplied by means of instrumental and vocal solos and the phonograph.
TECHNIQUE OF INSTRUMENTS

234. TECHNIQUE OF INSTRUMENTS (Fall)  2 Hrs.
235. TECHNIQUE OF INSTRUMENTS (Winter)  2 Hrs.
236. TECHNIQUE OF INSTRUMENTS (Spring)  2 Hrs.

This subject includes descriptions of the character and peculiarities of all instruments and their employment for either solo, orchestra or band purposes. This course is invaluable to untrained leaders, important to trained leaders.

CONDUCTING

241. CONDUCTING (Fall)  2 Hrs.
242. CONDUCTING (Winter)  2 Hrs.
243. CONDUCTING (Spring)  2 Hrs.

Technique of the baton. A study of problems that arise in conducting Band, Choir, Glee Club and Orchestra. Practical experience and public performance in conducting.

For Public School Music see description of courses under College of Education.

CURRICULA LEADING TO DEGREE

BACHELOR OF MUSIC

MAJOR IN PIANO, ORGAN, AND VIOLIN

First Year  Credit Hours

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<th>Major Instrument 151, 152, 153</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tr>
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<tr>
<td>Elective (Liberal Arts)</td>
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<tr>
<td>Physical Education</td>
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<tr>
<td>Ensemble</td>
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### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Major Instrument 251, 252, 253</td>
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</tr>
<tr>
<td>Counterpoint 201, 202, 203</td>
<td>2</td>
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<tr>
<td>Musical Form 221, 222, 223</td>
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<tr>
<td>Appreciation 231, 232, 233</td>
<td>2</td>
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<tr>
<td>Composition 211, 212, 213</td>
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<tr>
<td>or</td>
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### Fourth Year

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<th>Fall</th>
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<tbody>
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</tr>
<tr>
<td>Form 224, 225</td>
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<tr>
<td>*Electives</td>
<td>9</td>
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<tr>
<td>Recital</td>
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*Note: It is suggested that the student take Canon and Fugue, Composition, Instrumentation, and Conducting, or continue in his minor instrument with additional theoretical work, or that he devote his attention primarily to Methods and Practice Teaching. Additional work in the Colleges of Liberal Arts and Education will be accepted up to the maximum of 45 quarter hours.*
### Major in Voice

#### First Year

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Voice 151, 152, 153</td>
<td>Fall 2</td>
</tr>
<tr>
<td>Minor Instrument</td>
<td>Winter 2</td>
</tr>
<tr>
<td>Ear Training and Sight Singing</td>
<td>Spring 2</td>
</tr>
<tr>
<td>Harmony 111, 112, 113</td>
<td>Winter 3</td>
</tr>
<tr>
<td>English 101, 102, 102a</td>
<td>Spring 3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Winter 5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Spring 1</td>
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<td>Ensemble</td>
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#### Second Year

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<td>Voice 154, 155, 156</td>
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<tr>
<td>Minor Instrument</td>
<td>Winter 3</td>
</tr>
<tr>
<td>Ear Training and Sight Singing</td>
<td>Spring 2</td>
</tr>
<tr>
<td>Harmony 214, 215, 216</td>
<td>Winter 3</td>
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<tr>
<td>History of Music 121, 122, 123</td>
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<td>Electives (Liberal Arts)</td>
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#### Third Year

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<td>Winter 4</td>
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<td>Counterpoint 201, 202, 203</td>
<td>Spring 2</td>
</tr>
<tr>
<td>Musical Form 221, 222, 223</td>
<td>Winter 2</td>
</tr>
<tr>
<td>Appreciation 231, 232, 233</td>
<td>Spring 2</td>
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<tr>
<td>Electives (Liberal Arts)</td>
<td>Winter 3</td>
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<tr>
<td>Ensemble</td>
<td>Spring 0.5</td>
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#### Fourth Year

<table>
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<th>Course</th>
<th>Credit Hours</th>
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<tbody>
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<td>* Electives</td>
<td></td>
</tr>
<tr>
<td>Ensemble</td>
<td>Summer 0.5</td>
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</tbody>
</table>

* See note on electives in the piano, organ, and violin curricula.

A voice student is expected to elect piano as his minor instrument, although he may substitute organ or violin if in the opinion of the faculty he has attained sufficient advancement to play ordinary accompaniments.
COLLEGE
OF
PHARMACY

RUDOLPH HENRY RAABE
Dean
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. Through the influence of the association, uniform and higher standards of education have been adopted from time to time, and the fact that several states by law or board ruling recognize the standards of the association is evidence of its influence.

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 their 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

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 synthesis. In these laboratories the student is required to perform a satisfactory amount of analytical and synthetical work under the personal supervision of the Professor of Chemistry and able assistants.

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 moved, greatly enlarged, and new types of apparatus added to each work desk. Chainomatic balances are the predominating type of analytical balances used.

ADMISSION

Candidates 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 for advanced standing, must present (1) evidence of honorable dismissal, (2) a full record of the applicant's preparation for college, (3) a transcript of his college record, subject by subject, with the grade obtained in each and the hours credited. He should submit a catalogue of his college.

Advance credit will be given for not more than 135 quarter hours (90 semester hours), exclusive of gymnasium in the four-year course and 90 quarter hours (60 semester hours), exclusive of gymnasium, 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 the first day of July, nineteen hundred seventeen 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.

**Entrance**

Candidates for entrance to the College of Pharmacy must meet the following requirements: be of good moral character, be at least seventeen years of age, be a graduate of a first class high school as defined in Ohio or its equivalent, and present to the University Entrance Examiner an entrance certificate issued by the Ohio Board of Pharmacy and a certified copy of high school credits.
Persons who meet the entrance requirements and conditions as indicated in the preceding paragraph will be 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.

**When to Enter**

The College of Pharmacy opens on Monday, September 9, 1929, 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.

**Advanced Standing**

On completion of the various courses of study offered the student will be marked as indicated under “General Information” of this catalogue.

Students from recognized Colleges of Pharmacy will be admitted to advanced standing upon satisfactory evidence that they have met all the requirements established by this college to attain such standing. *Under no circumstances will students be received from other colleges who cannot furnish certificates of honorable dismissal.*
SCHEDULES

DEGREE: PHARMACEUTICAL GRADUATE

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. In accordance with this action those who satisfactorily complete the three-year course as scheduled below and meet all other requirements for graduation will be permitted to choose the Ph. G. degree.

DEGREE: PHARMACEUTICAL CHEMIST

First Year

<table>
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<tr>
<th>FALL</th>
<th>WINTER</th>
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<tbody>
<tr>
<td>Physiology</td>
<td>General Materia Medica</td>
</tr>
<tr>
<td>Chemistry 101</td>
<td>Posology</td>
</tr>
<tr>
<td>Pharmaceutical Arithmetic</td>
<td>Pharmaceutical Latin</td>
</tr>
<tr>
<td>Pharmaceutical Technique</td>
<td>Chemistry 102</td>
</tr>
<tr>
<td>Physical Education</td>
<td>Pharmaceutical Botany</td>
</tr>
<tr>
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<td>Physical Education</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Chemistry 103</td>
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<tr>
<td>Pharmacy I</td>
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Second Year

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
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<tbody>
<tr>
<td>Pharmacognosy I</td>
<td>Pharmacognosy II</td>
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<tr>
<td>Chemistry 107</td>
<td>Chemistry 108</td>
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<tr>
<td>Pharmacy Ia</td>
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### Third Year

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<tbody>
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<td>Toxology</td>
<td>Chemistry 106</td>
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<td>Chemistry 104</td>
<td>Pharmacy VIIb or Elective</td>
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<tr>
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<td>Pharmacy IIIb</td>
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<td>Pharmacy IIIa</td>
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<td>Chemistry 106</td>
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<td>Pharmacy IIIc</td>
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At least 2,698 clock-hours are required to complete this course, 934 clock-hours in lectures and recitations and 1764 clock-hours in the laboratory.

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### Degree: Bachelor of Science in Pharmacy

### First Year

<table>
<thead>
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<tbody>
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<td>Physics 109</td>
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<tr>
<td>German or French</td>
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<tr>
<td>5</td>
<td>5</td>
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<tr>
<td>Chemistry 101 or 101a</td>
<td>Chemistry 102 or 102a</td>
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**SPRING**

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<td>German or French</td>
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<tr>
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### Second Year

<table>
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<tr>
<td>Physiology</td>
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<tr>
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<td>Physical Education</td>
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</table>
### Third Year

#### FALL
- Pharmacognosy I 5
- Chemistry 104 or 107 5
- Pharmacy Ia 5

#### WINTER
- Pharmacognosy II 5
- Chemistry 105 or 108 5
- Pharmacy II 5

### Fourth Year

#### FALL
- Materia Medica III 2
- Elective Chemistry 5
- Toxicology 3
- Pharmacy VIIa or Elective 3
- Pharmacy IIIa 2

#### WINTER
- Materia Medica II 5
- Elective Chemistry 5
- Pharmacy VIIb or Elective 3
- Pharmacy IIIb 2

### SPRING
- Bacteriology 5
- Elective Chemistry 5
- Pharmacy VIIc or Elective 3
- Pharmacy IIIc 2

At least 3,310 clock-hours are required to complete this course, 1,294 clock-hours in lectures and recitations and 2,016 clock-hours in laboratory.
Description of Courses

MATERIA MEDICA SECTION

PHYSIOLOGY (Fall) 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. Lectures and recitation, M. W. F., 1:30; 36 hours. Laboratory, T. Th., 1:30-3:30, 48 hours.

GENERAL MATERIA MEDICA (Winter) 1 Hr.
In this course the student becomes acquainted with the general classification of drugs and medicines. Classification is based upon dynamics. Lectures and recitations, M., 7:30; 12 hours.

PHYSIOLOGY (Winter) 1 Hr.
This is a brief course intended to familiarize the first year student with the science of dosage. Lectures and recitations, W., 7:30; 12 hours.

PHARMACEUTICAL BOTANY I (Winter) 5 Hrs.
The aim of this course is to acquaint the student with the main groups of plants, their characteristics, and economic importance. The course is progressive, beginning with the lowest types and ending with the highest. Lectures and recitations, M. W. F., 1:30, 36 hours. Laboratory, T. Th.; 48 hours.

PHARMACEUTICAL BOTANY II (Spring) 5 Hrs.
The cell, cell contents and 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 will be considered. Lectures and recitation, M. W. F., 1:30; 36 hours. Laboratory, T. Th.; 48 hours.

PHARMACOGNOSY I (Fall) 5 Hrs.
In this course the student is taught how to identify, select, and value drugs microscopically. He will learn 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., 7:00-9:30; 48 hours.

PHARMACOGNOSY II (Winter) 5 Hrs.
The study of vegetable drugs is continued. The student will learn the official names, habitat, and constituents of each National Formulary drug. Attention will be 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 will be given to official names, physiological action and doses. The physical and chemical properties of these drugs will 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 will be classified according to their action upon the human body. Attention will be given to official names, constituents, action, and dosage. Lectures and recitations, M. T. W. Th. F., 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 will be 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 will be 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 71, 72, and 73 of this publication.

PHARMACY SECTION

PHARMACEUTICAL ARITHMETIC 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., 10:00; 36 hours.

PHARMACEUTICAL LATIN 3 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. Lectures and recitations, M. W. F., 10:00; 36 hours.

PHARMACEUTICAL TECHNIQUE 3 Hrs.
An introductory course in the principles upon which pharmaceutical operations are based. Lectures, demonstrated lectures and recitations, T. Th., 11:00; 24 hours. Laboratory, 36 hours.
PHARMACY I, GALENICAL

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., 10:00; 36 hours. Laboratory, T. Th., 1:30-4:30; 72 hours.

PHARMACY Ia, GALENICAL

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., 10:00; 36 hours. Laboratory, T. Th., 9:00-12:00; 72 hours.

PHARMACY II

Liquors, elixirs, tinctures, fluid extracts, acids and preparations listed under the classification mentioned under Pharmacy I and Pharmacy Ia, which require special skill and careful manipulation. Prerequisites: Pharmacy I and Pharmacy Ia and Chemistry I and II. 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, M., 10:00. Laboratory, W. F., 2:30-4:30. 36 hours per quarter.

PHARMACY IV. COMMERCIAL

Bookkeeping, Business Correspondence, Commercial Law, Salesmanship, Pharmaceutical Laws and Business Practice, are some of the subjects offered under this heading. See schedule for electives.

PHARMACY V 5 Hrs.
Manufacture and standardization of tinctures, fluid extracts. Lectures, W., 1:00; 12 hours. Laboratory, M. T. Th. F., 8:30-11:30; 120 hours.

PHARMACY VI 5 Hrs.
Manufacture and standardization of tinctures, fluid extracts and extracts. Lectures, M. 1:00; 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 per quarter. Five credit hours in Pharmacy VII will be considered as equivalent to Pharmacy VIIa and VIIb.

PHARMACY VIIIC (Spring) 3 Hrs.

This course is a continuation of Pharmacy VIIa and VIIb. The student will be 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

Attention is given to the inorganic of the U. S. P. and N. F. from the standpoint of the pharmacist. General Inorganic Chemistry I and II are prerequisites. Lectures and recitations, 36 hours. Laboratory, 72 hours.

PHARMACY IX

A study in the inorganic chemicals and synthetics of the U. S. P. and N. F. General Organic Chemistry I is a prerequisite. Lectures and recitations, 36 hours. Laboratory, 72 hours.

ELECTIVES

To reach more effectively the objective of the student, electives may be chosen from the following departments: Pharmacy, Law, Commerce, Modern Language, Biology, Teachers' 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, ten quarter-hours may be elected; in the four-year course twenty quarter-hours may be elected. All elections are subject to the approval of the Dean.

REQUIREMENTS FOR GRADUATION

Every person upon whom a degree will be conferred must meet the following conditions and requirements:

1. Be of good moral character.
2. Satisfactorily complete all prescribed work.
3. Spend the last year in resident study in this college.
4. Must have as many quality points as credit hours.
5. Be present at the commencement exercises unless officially excused.
SCHOOL OF COMMERCE

EMMETT E. LONG
Director
AIM

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

LOCATION AND EQUIPMENT

This School occupies the entire third floor of Lehr Memorial. It is equipped throughout with up to date fixtures and office furnishings for class use, such as Remington and Underwood typewriters, Burroughs adding machine, posting machine and calculators, multigraphs, mimeographs, addressographs, and all appliances needed in efficient instruction. The quarters are roomy, with abundance of light and ventilation.

UNIVERSITY ADVANTAGES

The University offers to every student of the School of Commerce additional privileges: admission to courses in the College of Liberal Arts without extra charge when prerequisites have been met; the opportunity of participating in literary work; and the benefits of college environments and associations.

WHEN TO ENTER

Students are admitted at the beginning of each quarter. Many of the subjects scheduled in the two short courses, the two-year course, are repeated each quarter.

THE COURSES OF STUDY

These courses of study, thorough and practical, are arranged to meet the needs of young men and women planning to enter fields of business organization and administration or to fit themselves for clerical, stenographic, or secretarial positions.
TIME, REQUIRED

It requires about three quarters (nine months) to complete the short course either in Bookkeeping or Stenography, the length of time depending upon previous educational preparation, aptness, and application; the two-year course in Commerce about six quarters; the Pre-Commerce Course, six quarters. Students are promoted as rapidly as they advance, but no student is permitted to enter a higher or advanced class until all prerequisite work has been completed.

SPECIAL STUDENTS

The regular courses have been arranged for those who have completed high school or preparatory work. Students not having had such preliminary training, or those not caring to complete a prescribed course, will be admitted as special students. Certificates showing amount of work completed will be issued to special students.

EXPENSES

General penmanship free to students of all departments.

All students in the School of Commerce are admitted to courses in the College of Liberal Arts without extra charge, if the prerequisites to such courses have been met.

For further information regarding tuition and fees of this department see Expenses, earlier pages of this catalogue.

SUMMER QUARTER

In the Summer Quarter an excellent opportunity is given for teachers and those unable to attend during the other months of the year to pursue the course desired.

See Calendar on Page 5 of this catalogue.
Situations for Students

Positions are not guaranteed, but the employment bureau of the University cheerfully assists graduates and students qualified for positions. There is no charge for this except the necessary postage.

The O. N. U. Commercial Club

The Commercial Club is a live organization maintained by the students and faculty of the School of Commerce. It meets regularly and discusses the many phases of business activity and commercial topics. Every regularly enrolled commercial student must maintain membership in this organization. Proper credit will be given for work completed.

Advantageous Courses

Teachers and students, in any College of the University, should take advantage of the courses offered in bookkeeping and typewriting. There is a great demand from high schools that teachers have a knowledge of these two subjects.

Commercial subjects are open to any student in the University.
## Short Course in Bookkeeping

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<tr>
<th>FIRST QUARTER</th>
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<tr>
<td>Accounting 101</td>
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<td>3 Bus. English</td>
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<td>Rapid Cal.</td>
<td>2 Typewriting 102</td>
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<td>Typewriting 101</td>
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Typewriting may be substituted for Commercial Law.

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

50 hours required, 3 of which must be Physical Education.

## Short Course in Stenography

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<th>FIRST QUARTER</th>
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<td>Penmanship</td>
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<td>Accounting 101</td>
<td>3 Calculator</td>
<td>2 Correspondence</td>
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<td>Shorthand Principles</td>
<td>Physical Ed.</td>
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Three hours word-sign drill in Shorthand required during the first and second quarter. Non-credit.

50 hours required, 3 of which must be Physical Education.
TWO-YEAR COURSE IN COMMERCE

(Diploma—Graduate in Commerce. Prerequisite: A high school education)

First Year

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<th>FIRST QUARTER</th>
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<td>English 102</td>
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<td>Modern Language 5</td>
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<td>Accounting 103</td>
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<td>C. P. A. Problems 3</td>
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<td>and Direct</td>
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<tr>
<td>Economics 121</td>
<td>3</td>
<td>Dictation 5</td>
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<tr>
<td>Shorthand Prin.</td>
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<tr>
<td>Physical Ed.</td>
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<td>Correspondence 3</td>
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<td>Economics 123 3</td>
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<td>Physical Ed. 1</td>
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Economics may be substituted for Modern Language with consent of the Director.

Machine Bookkeeping may be substituted for C. P. A. Problems.

103 hours are required for graduation, 6 of which must be Physical Education. Students having completed part of the work in high school must take an equivalent number of hours of college work, to be selected by the Director.

Students pursuing the Two-Year course are advised to arrange for remaining steadily at work for two successive years, if possible beginning with the Fall Quarter.
EXECUTIVE SECRETARIAL COURSE

Diploma Course

Prerequisite: Graduation from a first grade high school or its equivalent.

First Year

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<th>FIRST QUARTER</th>
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<td>French 101</td>
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<td>Psychology 101</td>
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<td>Typewriting 101</td>
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<td>Economics 121</td>
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<td>French 105</td>
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<td>Shorthand Prin.</td>
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</table>

Three hours word sign drill in Shorthand required during the first and second quarter. Non-credit.

106 hours required for graduation, 6 of which must be Physical Education.

French is an elective, and some other Modern Language may be substituted.

This course is a two-year program for those who have completed a high school course or its equivalent. It qualifies for secretariats in educational institutions, business concerns, social and public organizations, as well as the more intimate work of the personal secretary to public and social leaders.
A Special Course in Commerce

No prerequisites. This course will be from one quarter to two years in length, designed for the man or woman desiring to go into business for himself. Enough Bookkeeping will be taught to take care of his own accounts, enough Typewriting to be able to operate a typewriter efficiently, enough English to write a good business letter, enough Law to keep out of trouble, enough Economics to keep in touch with business conditions and any other subjects that may be wanted. Each quarter will be complete within itself. Courses arranged upon consultation with Director.

Description of Courses

101. Accounting

This course, planned for beginners in Accounting, gives the student the fundamental principles of bookkeeping. He becomes acquainted with a variety of books used by a single proprietor conducting a retail business. Offered each quarter.

102. Accounting

This is a partnership course, introducing features used in a modern office; the budget system is presented. Open to all students having completed Accounting 101, or its equivalent. Offered each quarter.

103. Accounting

A theoretical and practical course, dealing with the questions of the modern corporation. Special column corporation accounting books are used in connection with the Cash Journals (Budget System). Offered each quarter.

Cost Accounting

104. Accounting

A comprehensive course in the principles and practice of Cost Accounting. This course is designed to meet the demands of the manufacturer of today. Offered upon request.

Bank Accounting

105. Accounting

Banks are essential to the success of any community. A knowledge of Bank Accounting on the part of each individual is of mutual advantage to the bank and the community. The purpose of this course is to provide a general knowledge of the principles of Bank Accounting. Offered upon request.
BUSINESS ENGLISH
A thorough course in practical Business English, including postal and general office information. Required in all courses.

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

SPELLING
Regular and systematic drills are given in written and oral spelling in all courses. Students are required to take these drills and pass satisfactory examinations.

COMMERCIAL ARITHMETIC
Emphasis is placed on the solution of all kinds of problems met in transaction of business. Thorough from beginning to end.

RAPID CALCULATION
Drill in speed and accuracy in figures. The training is such that a student in carrying out extensions in invoices and statements, and computing discounts, is able to do it in a large part mentally.

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

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

The Gregg system is taught to all beginners. Those having learned the principles of another system, if able to take dictation, are allowed to enter the dictation class and write their own systems.

OFFICE PRACTICE
A thorough and practical course is offered in Office Practice. Real work being done which is equivalent to three months actual experience.

TYPEWRITING, MULTIGRAPHING, MIMEOGRAPHING AND ADDRESSOGRAPHING
All students pursuing regular courses in the School of Commerce are required to take training in the operation of the typewriter. The touch system is taught, the instructor supervising the work during every period. Drills are given in each phase of the work required of typists.

Typewriting is required to be done in the Typewriting department. Those taking Typewriting elsewhere must present their papers for grades and take examinations, for which a fee of $4 is charged.

Students deformed in hands or arms are permitted to elect an equal amount of instruction in some other subject with the approval of the Director.
SECRETARIAL DUTIES

Practical training in secretarial work, including performance of these duties, under direction of the instructor, for the Deans of the University, Executive Secretary and others requiring the service of secretaries from time to time.

PENMANSHIP AND LETTERING

The Zahner System of writing is used, with the advantage of modern methods of instruction. The writing is easily read, rapidly written, simple in forms, natural in slant, easy of movement, and pedagogically taught.

All students in the School of Commerce are admitted to the classes in business writing without extra charge. Lettering, including display cards, price tickets, decorative designs, etc., is taught to students desiring this kind of instruction.

MACHINE BOOKKEEPING

With a Burroughs Bookkeeping Machine students are trained in the Mechanical Bookkeeping systems which are rapidly supplanting pen and ink methods in thousands of banks and business offices of the country.

CALCULATING MACHINE WORK

The school is equipped with a battery of Burroughs Calculators. This work is taught by a factory-trained instructor. These machines are used in offices of thousands of business concerns for handling all kinds of clerical work, also in high school work. A thorough knowledge of the machine and teaching principles will be offered to commercial high school teachers.

Without any previous business experience of any kind students are able to become expert Calculator operators after a very brief course of study.

COLLEGE OF LAW SUBJECTS

Sales, Contracts, Partnership, Agency. See College of Law.

LIBERAL ARTS SUBJECTS

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

Pre-Commerce Course, see College of Liberal Arts.

DEGREES AND DIPLOMAS

Students completing the two-year course are ranked "Graduate in Commerce." Students completing the three-quarter courses are certified as having completed the Bookkeeping and Stenographic Courses, respectively.
DEPARTMENT
OF
PHYSICAL EDUCATION

PROFESSOR MILLER, Director
ASSISTANT PROFESSOR MEREDITH
MR. ZIMMER, Instructor
MISS STEPLETON AND MISS FOGLE, Assistants
Some form of physical activity is required of every student 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 hour credit 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 sufficiently 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 course is organized within the College of Education, and is given in cooperation with the College of Liberal Arts. 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 both 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.

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 will 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 will be 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 work and outdoor work in season, natural gymnastics, informal play. M. W.
   Women—Same as above. T. Th.

104. PHYSICAL EDUCATION (Fall) 1 Hr.
105. PHYSICAL EDUCATION (Winter) 1 Hr.
106. PHYSICAL EDUCATION (Spring) 1 Hr.
   Men—Continuation of Course No. 103 with team games and apparatus added. M. W.
   Women—Continuation of Course No. 103 with aesthetic dancing, apparatus, and team games added. T. Th.

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 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, both from the individual and social aspect, with especial emphasis on preventive measures. M. W. F., 11:00.

116. SCHOOL HYGIENE (Spring) 2 Hrs.
   A course designed to cover the organization and administration of those agencies of health and hygiene which the school can promote directly or indirectly through its various health agencies. It includes medical supervision, physical education, school sanitation, the teaching of hygiene, and the hygiene of instruction. T. Th., 11:00.

151. SCHOOL HEALTH PROBLEMS (Fall) 3 Hrs.
   This course is designed for all teachers and considers the various topics concerned in the maintenance of the health of school children and their environment. M. W. F., 9:00.

152. HEALTH EDUCATION (Winter) 3 Hrs.
   A course dealing with the methods of teaching and subject matter of health through the grades and secondary schools. M. W. F., 1:30.
155. **KINESIOLOGY (Spring)** 3 Hrs.

A course dealing with methods of teaching and systematic exercises according to sex, age, and physical condition, and the general classifications of exercises. M. W. F., 9:00.

156. **THEORY AND PRACTICE OF PLAYS AND GAMES (Spring)** 3 Hrs.

A theory and practice course dealing with the theories of play and the types of plays and games suitable for the various age groups in the elementary schools. Two hours of theory and two hours of laboratory per week. T. Th., 2:30.

201. **PRINCIPLES AND METHODS IN PHYSICAL EDUCATION (Fall)** 3 Hrs.

202. **PRINCIPLES AND METHODS IN PHYSICAL EDUCATION (Winter)** 3 Hrs.

203. **PRINCIPLES AND METHODS IN PHYSICAL EDUCATION (Spring)** 3 Hrs.

A comparison of various systems of gymnastics teaching now in force; elementary and advanced instruction on apparatus, tumbling, stunts, clog dancing, etc. Each student is expected to teach under supervision. Principles underlying the organization and administration of physical education. In the Spring Quarter playground, camping, and scouting are covered. Two hours theory and two hours laboratory. M. T. W. Th., 7:30.

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.

Theory and practice of coaching and officiating, field hockey, soccer, archery, training, etc. 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.

Women—Baseball, tennis, track and field, playground, etc. (*Spring*). 3 Hrs. 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.

252. Diagnosis and Anthropometry (*Fall*) 2 Hrs.

253. Diagnosis and Anthropometry (*Winter*) 2 Hrs.

Lectures and demonstrations on methods of examination in order to determine the individual’s physical condition; practical work in recording, measuring, testing, and prescribing exercise to meet individual needs. T. Th., 10:00.

254. Organization and Administration of Physical Education—Men and Women (*Winter*) 3 Hrs.

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

255. Individual Gymnastics (*Spring*) 3 Hrs.

This course deals with the selection and prescription of exercise designed to correct various postural abnormalities, structural defects, and deformities. M. W. F., 10:00.

258. First Aid and Massage (*Spring*) 3 Hrs.


260. History of Physical Education (*Winter*) 2 Hrs.

This course traces the evolution of Physical Education through ancient and modern times. It considers the relation of Physical Education to general education and to national life and ideals. T. Th., 11:00.

263. Student Teaching—Physical Education 6 Hrs.

For description of course see College of Education.
Degrees Conferred

HONORARY DEGREES

Benson, John G. _______________ D. D. _______________ Columbus
Hawthorne, Rosa Pyne ___________ A. M. _______________ Tacoma, Wash.
Lyman, Howard Wilder ___________ Mus. D. _______________ Syracuse, N. Y.
Motter, Wm. W. _______________ D. D. _______________ Piqua
Seager, Lawrence H. ___________ LL. D. _______________ LeMars, Iowa

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Jesse Long ___________ President Annadale Curtis ___________ Secretary
John Simmons ___________ Vice President Harold Treby ___________ Treasurer
Stewart McHenry ___________ Valedictorian

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Augenstein, Wilbur H. ___________ A. B. _______________ Ashley
Boyce, Lincoln Wright ___________ A. B. _______________ Ada
Bamberg, Elizabeth ___________ A. B. _______________ Ada
Betz, Madge Merrill ___________ A. B. _______________ Ada
Benedict, Ira W. _______________ B. S. _______________ Oakwood
Bitters, Albert ___________ A. B. _______________ Big Run, Pa.
Bitters, Chelsea Slagle ___________ A. B. _______________ Big Run, Pa.
Buchanan, Oscar W. ___________ A. B. _______________ Ada
Browns, Howard ___________ A. B. _______________ Lakeview
Campbell, Mary ___________ A. B. _______________ Ada
Clapper, Elizabeth ___________ A. B. _______________ Bluffton
Coddington, Ruth Chiles ___________ A. B. _______________ Ada
*Cramer, Paul Hubert ___________ A. B. _______________ Ada
Charles, Hope ___________ A. B. _______________ Oakland, Calif.
Cretors, Martha ___________ A. B. _______________ Ada
Davis, June ___________ A. B. _______________ Ada
Davis, Clare ___________ A. B. _______________ Ada
Edwards, Bernice ___________ A. B. _______________ Ada
*Engle, Ruth ___________ A. B. _______________ Ada
Fairchild, Margaret ___________ A. B. _______________ Ada
Fithen, Winnifred ___________ A. B. _______________ Ada
Freeman, Elda ___________ A. B. _______________ Ada
Gray, Clarence ___________ A. B. _______________ Ada
Gilmore, Josephine ___________ A. B. _______________ Cadiz
Ham, Fred ___________ A. B. _______________ Morenci, Mich.
Hattfield, Margaret ___________ A. B. _______________ Ada
Hopkins, Blake ___________ B. S. _______________ Hiram
Jennings, Eleanor ___________ A. B. _______________ Ada
Kempton, Donald ___________ A. B. _______________ Kingston
Limbert, Dale ___________ A. B. _______________ Arcanum
*Long, Jesse ___________ A. B. _______________ Ada
Lowman, Ernestine ___________ A. B. _______________ Ada
Luciano, Frank ___________ B. S. _______________ Richmond Hill, N. Y.
*Line, J. G. ___________ A. B. _______________ Lakeview
*Money, Esther McGuffey ___________ A. B. _______________ Hanover, Ind.
Mead, Frances ___________ A. B. _______________ Lima
Modarelli, Joseph A. ___________ A. B. _______________ Girard
Marshall, Albert ___________ A. B. _______________ Columbus
Maurer, F. G. ___________ A. B. _______________ Lima

* Honor Students
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**College of Engineering**

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<td>Culler, Estell L.</td>
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<td>Johnson, Francis C.</td>
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<td>Kuckuck, Francis</td>
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<td>Poling, Virgil D.</td>
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<td>Shires, Luke</td>
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<td>Whittlesey, Stanley E.</td>
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**College of Law**

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<th>Name</th>
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<tr>
<td>Ake, J. Stewart</td>
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<td>Altholz, Milton B.</td>
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<td>Arter, Clarence A.</td>
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† Deceased
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<td>Kortler, Dawson A.</td>
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**College of Pharmacy**

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<th>Name</th>
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<tr>
<td>Althoff, Ferdinand</td>
<td>Ph. C.</td>
<td>St. Marys</td>
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<td>Anderson, James M.</td>
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<td>*Baughman, Robert E.</td>
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<td>Bell, Carlton</td>
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<td>Blankenhorn, Lewis A.</td>
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<td>Van Buren</td>
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† Deceased.
Berman, Larry Ph. C. Pittsburgh, Pa.
Day, Richard Ph. C. Wilmington
Dreischer, Frank Ph. G. Akron
Driscoll, Harold W. Ph. G. Columbus
Fisher, Lawrence F. Ph. G. Napoleon
Franz, W. Gerard Ph. G. Ashtabula
Goda, Fred S. Ph. C. Cleveland
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Honeck, Edwin J. Ph. G. Napoleon
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Kafer, George E. Ph. C. Lorain
Kennedy, Bernard J. B. S. in Pharm. Akron
Ketrow, Wm. J. Ph. C. Greenville
Kreishman, Morris Ph. C. Cleveland
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Quillen, Raymond T. Ph. C. Mingo Junction
Rhuark, Ellwood M. Ph. C. Wellsville
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Smy, Rodney Ph. C. Canton
Strine, Darrell Ph. G. Johnstown
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Struble, Robert R. Ph. C. Logan
Swerdlow, Max Ph. C. Marinette, Wis.
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Eberhart, Anna ———

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Eibling, Willis ——— Dola
Elliott, Nelson ———

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McCleary, Rush ------- Ada
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McElroy, Lorene ------- Ada
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McNamara, George ------- Marion
McNeal, W. M. ------- Ada
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Marshall, Glenn ------- Ada
MacCallum, J. D. ------- Lima

McCurdy, Flora ------- Ada
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Neville, Margery - Roundhead
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Palmer, Fred ------- Van Wert
Payne, Serge ------- Leipsic
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Conway, Sumner ________ Liberty Center
Davis, John Elmo ________ Magnetic Springs
Detrick, Celina ________ Lima
Drury, Gene ________ Van Wert
Donaldson, Herman ________ St. Louis, Mo.
Eisenberg, Sidney ________ Cleveland
Ettinger, E. D. ________ Cleveland
Earl, Madge ________ Ada
Fasolo, Nunzio ________ Cleveland
Fleckner, O. L. ________ -- North Baltimore

Gerhardt, George ________ Circeville
Gillons, Forest ________ Lima
Godwin, Ralph C. ________ Bellefontaine

Gunn, Clemens ________ Cleveland Heights
Gutknecht, John ________ Fostoria
Hambleton, Donald ______ Canton
Hartzell, D. M. _______ Greenville
Hostettler, Atlee ________ Dundee
Iacofano, Albert L. ________ Cleveland

Jacobson, Harry ________ Sioux Falls, S. D.
LaBorde, William ________ Canton
Lappin, Leo L. ________ Turtle Creek, Pa.
Lease, Charles ________ Kenton
McIntosh, Robert J., Jr. ________ Toledo
Morrow, William J. ________ Toronto
Masters, Joseph M. ________ Hibberts
Navaroli, August D. ________ McKeesport, Pa.
Pumphrey, James ___ Ada
Ray, Edwin ________ Ada
Rice, Raymond ________ New Philadelphia
Roof, James ______ Magnolia
Roberts, Ben, Westfield, Mass.
Smith, Delmar V. __ Van Wert
Snell, Byron C. ______ Crooksville
Stipp, John __________ Lima
Suchland, Everett __ St. Marys
Taylor, Clyde __________ Van Wert
Thompson, Lowell C. Minford
Vinocur, Louis ___________ Cleveland
Wilson, Eugene ________ Franklin
Williams, Wayne H. ___ Elyria

Pre-Dental

Corso, S. Hubert ________ Cleveland Heights
Doak, Franklin ___ Cleveland
Lutman, Mark __________ Lima
Lambert, Carmen J. _______ Youngstown

Pre-Agricultural

Poe, Glenn ______ Belle Center

Pre-Commerce

Durbin, Harry E. ______ Lima
Van Horn, James G. Alliance

Jacobby, Matthew _______ Pittsfield, Mass.

Education

Ault, Hilda ___ Upper Sandusky
Ault, Evelyn ______ Wilshire
Arthur, Mary __________ Lima
Augsburger, Olive Beaverdam
Amann, Mary Alice __ Galion
Brown, Alvin ___ Rossburg
Borden, Thomas ___ Van Wert
Bricker, Clyde ________ Delaware
Boley, Charles _______ Coldwater
Brown, Clarence ___ Rossburg
Brown, Ira ____________ Versailles
Behrens, F. J. _________ Botkins
Beam, Harold __________ Anna
Bailey, T. C. __________ Richwood
Bower, Wallace _______ Warsaw
Beach, Maxine _________ Arlington
Bushong, Hattie __________ West Mansfield

Boroff, Flo __________ Venedocia
Bell, Ruth ____________ Convoy
Bodkin, Marie __________ Montezuma
Becker, Mildred _____ Spencerville
Bowers, Edith __________ Ada
Blanke, Lester __________ Anna
Boze, Bertha ___________burg
Baxter, Helen __________ Lima
Baxter, Mildred __________ Elida
Burden, Mildred __________ Uniopolis

BURNS, Leonidas __________ Greenville
Brewer, Helen ___________ Greenville
Boyer, Lois ____________ Botkins
Barrett, Ruby ___________ Kenton
Bailey, Hazel __________ Portsmouth
Badertscher, Harvey Bluffton
Ballard, Stanley ____________ Magnetic Springs

Bidwell, Eva ___________ Napoleon
Bone, Helen __________ Centerburg
Boroff, Agnes ___________ Metamora
Brown, Bertha ___________ Quincy
Boroff, Nancy Alice _____ Mendon
Boyer, Elsie ___________ Bradford
Brian, Ethel ___________ Scott
Bishop, Beryl __________ Ashley
Bryan, Martha ___________ Peoria
Burns, Ruby ___________ Ansonia
Birt, Orla ____________ New Weston
Blazer, Margaret ____________ West Mansfield

Blazer, Marjorie ____________ West Mansfield
Blanke, Orrin __________ Kettlersville
Baily, Winona __________ Wapakoneta
Braun, Harold ___________ Anna
Brookhart, Ermal __________ Rockford
Burns, Welcome __________ Ansonia
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Gross, Raymond ------ Alger
Gilbert, Susan ------ Union
Gaver, W. A. ------ Rosewood
Gilbert, Joseph ------ Union
Granger, Helen ------ Celina
Garrison, Donald ------ Ansonia
Gross, Pearl ------ Wapakoneta
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Gish, Ethel ------ Dawson
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George, Mabel ------ Findlay
Gray, Carmen ------ Ada
Gary, Nellie ------ Grover Hill
Haber, Dan ------ Rossburg
Huber, Joy K. ------ Bluffton
Huffman, Fred ------ Columbus Grove
Huffman, Oliver ------ Rawson
Herring, Burdette ------ Lima
Hawk, Mrs. Alberta ------ Ada
Hercules, Gladys ------ Ansonia
Hell, Ruth ------ Kenton
Horn, Merrill H. ------ Ada
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Herbersman, Marian_Bedford
Hughes Audra ------ Alger
Houser, Mary E. ------ Lima
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Harter, Elizabeth ------ Lima
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Haines, Letitia ------ Van Wert
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Humbert, Esther ------ Howard
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Harman, John N. ------ Bucyrus
Haney, Berda ------ Franklin Furnace
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Huggett, Irene ------ Ada
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Hill, Mrs. Naomi ------ Galion
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Iams, Roy ------ McGuffey
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Jenkins, T. S. ------ Lima
Jones, Leola G. ------ Ada
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Jackson, Gladys ------- South Webster
Johnston, Mrs. Beulah_Kenton
Jones, Opal ------ Convoy
Jeffrey, Maud ------ Ashland
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**Special Education**

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**Extension**

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**Engineering**

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Getzendanner, A. G. ---- Cleveland

Hamilton, Willis ------ Lima

Hartman, H. L. ------- Troy

Hartshorn, R. I. _______ Lebanon, N. Y.

Hassell, Ransom ----- Chardon

Henning, Berstall --- Weston

Hensel, W. G. ------- Navarre

Herendeen, James, Jr. ------ Odessa, N. Y.

Hershberger, Carl A. --- Broadway

Hill, L. W. ------- Avon Lake

Hinze, H. W. --- New Knoxville

Holland, Otis ------ Marion

Howells, Robert ----- Warren

Howes, M. Howard ---- Pataskala

Huling, Frederick ---- Sayre, Pa.

Hyde, C. J. --- West Farmington

Hyde, Herbert ------- West Farmington

Harvey, O. L. ------ Tionesta, Pa.

Hanley, J. W. ------- Lima

Jacobs, K. R. ------ Cleveland

Johnson, James R. ------- Kirksville

Jones, J. Donald ---- Salamanca, N. Y.

Jaffari, Mirzaaga _______ Teheran, Persia

Kaiser, Harold ----- Kenton

Kassouf, S. R. ------ Cleveland

Keener, Howard ---- LaGrange

Kimble, H. W. ------- Clark's Summit, Pa.

Kohli, C. B. ------ Lima

Kriegel, Richard E. ------- Kieff, Russia

Krug, George ------- Canton

Lanese, Carmen ---- Cleveland

Lash, Ross A. ------ Navarre

Leedy, Harold S. ----- Lima


Liggett, Hugh A. ---- Magnetic Springs

Light, Eugene P. ----- Lima

Luikart, Paul D. ------ Sardis

Lotz, Daniel ------- Kinsman

Lang, Alphonse ---- Cleveland

Lewis, Paul M. ------- Mendon

Life, Harry L. ----- Elyria

McAuliffe, C. W. --- Galena

McCammon, D. H. ------- Cleveland

McKee, H. D. ---- Stowe, Vt.

McKitrick, Lowell ---- Milan, Ind.

Majors, Carl ---- Salamanca, N. Y.

Marmon, Kenneth ----- Black River, N. Y.

Martinez, J. B. ---- Isabela, P. I.

Mertz, Robert E. ------- Lima

Messenger, Bill ------ Ada

Miller, Donald C. ------ Lima

Miller, George C. ------- Georgetown, Del.

Miller, Lewis ---- Beaver Falls, Pa.

Miller, Ward ------- Sidney

Millward, David B. ------- Leckrone, Pa.

Moe, Carl ------- Ada

McGahan, J. D. ---- Johnstown

Mendez, J. H. ------- Sartell, Me.

Molnar, Nils --- Cleveland


Mendez, L. J. ---- Sartell, Me.

Osborn, R. C. ------- Pataskala

Pankow, Edmund ------- East Otto, N. Y.

Parcell, Paul ---- Coshocton

Patterson, E. S. --- Utica, N. Y.

Poellot, W. N. ------- Bridgeville, Pa.

Poole, G. D. ------- Dayton

Pope, Winslow B. --- Cleveland

Pospisil, Charles K. ------- Mineola, L. L., N. Y.

Powell, F. G. ------ Ashtabula

Pringle, Donald ------- Findlay

Pickering, John St. Clairsville

Quinn, Thomas ------- Lima


Rhodes, Don M. ------- Salamanca, N. Y.

Rice, Robert F. ------- New Philadelphia

Roberts, Robert L. ------- New Philadelphia

Roe, Graydon S. --- Ohio City

Roebuck, D. R. ------- Lima

Roley, Glenn ------- Kirksville

Rosebrook, Homer ---- Huntsville

Roth, Arthur G. ------- Russell's Point

Rundell, Theo ---- Ada

Ruehrmund, L. G. --- Marion

Rundell, James ------- Ada

Raison, H. B. --- Portsmouth

Ruth, Arthur ------- Bucyrus

Scanlin, Ralph ------- Sidney

Schiffino, Anthony G. ------- Cuyahoga, N. Y.

Schilling, R. Paul ---- Anna

Schott, Eugene A. ------ Dover

Schwartz, John W. ---- Sharon, Pa.

Scobert, Joseph, Jr. ------- Mineral Ridge

Sealander, Ralph --- Lakewood

Senf, Norman D. -- Youngstown

† Deceased.
Sheely, Milton C. —— Leipsic
Sillins, Norman D. —— Lima
Skerrett, Ricardo
----------- Mayaguez, P. R.
Sloan, Albert C. —— Apollo, Pa.
Smoyer, Loren —— Barberton
Snedeker, Marion L. — Bannock
Spisak, Victor —— Girard
Stealey, L. L. —— Venedocia
Steinman, Emerson —— Jenera
Stewart, James M. — Warsaw
Stockton, W. B. —— Cadiz
Stoll, Alfred P. —— Little Valley, N. Y.
Stoner, Charles —— Ada
Suber, Leo J. —— Deshler
Summerfield, Victor
----------- Niagara Falls, N. Y.
Taylor, Willard —— St. Clairsville
Thurber, Arnold —— Boston, N. Y.
Tournier, E. J. — Clifton, N. Y.
Tumbleson, Jesse —— Wren
Van Reekum, Vernon
----------- Chicago, Ill.
Van Wye, Harlan —— Niles
Watson, J. G. Jr. —— Lima
Watson, R. A. —— Lima
Weber, Gustave A. —— Westbury, N. Y.
Weir, Donald A. —— Ashtabula
Westfall, John —— Elmla, N. Y.
Williams, Ralph C. — Lakewood
Witzler, R. W. —— Perrysburg
Wong, Tam
----------- Hong Kong, China
Woolley, Claire —— East Liberty
Worley, Claude Jr. —— Akron
Wyandt, Bert —— Van Wert
Yee, On Kock —— Canton, China
Young, Donald —— New Castle, Pa.
Zahniser, Walter —— Freeport, Pa.

Special Engineering

Carrier, Robert —— Corfu, N. Y.

Law

Abramson, J. J. —— Canton
Adelman, Sol —— Canton
Allen, Robert F. —— Richwood
Barone, Anthony S. —— Jamestown, N. Y.
Beck, Robert E. —— Magnolia
Beer, W. C. Jr. —— Bucyrus
Brown, Harold C. —— Toronto
Bloom, Yale A. —— Lima
Brewer, James B. —— Ada
Budin, Morris —— Cleveland
Cassidy, Robert —— Springfield
Celebreeze, A. F. —— Cleveland
Clark, Lyman —— Alger
Collett, Charles —— Lima
Conner, J. Reis —— Ada
Corrado, Joseph —— Ashtabula
Corso, G. A. —— Cleveland Hts.
Craig, Carl A. —— Sabina
Crowe, David E. —— Ironton
Crowl, Virgil —— Minerva
Curtis, D. O. —— Canton
Dawson, Charles D. —— Toronto
DeGrandsis, Paul —— Cleveland
DeVorkin, Maurice —— Cleveland
Dunwoody, Walter —— Newark
Ellis, F. W. —— Martins Ferry
Evans, Stanley M. —— Forestville, Pa.
Ewing, Claude F. —— Cambridge
Fels, Lowell J. —— Toledo
Fetterman, Sol —— Cleveland
Fischer, Clarence G. —— Susquehanna, Pa.
Freedman, Louis E. —— Cleveland
Fuller, Robert E. —— Findlay
Gagnon, Alvin —— Arnold—Toledo
Gennett, Daniel —— Canton
Gerros, Peter C. —— Canton
Glaros, Thomas —— Youngstown
Glathart, Clifford —— Findlay
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Griesinger, George E. —— Delta
Graybill, R. W. —— Massillon
Handley, LaMoine —— Carrollton
Harrison, Ralph E. —— Lakewood
Herchig, Julius —— Dayton
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Horton, H. H. —— Columbus
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Huntsman, Cecil —— Leipsic
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Kucera, Leo J. —— Bedford
Krahl, Ward —— Youngstown
Lawrence, Alfred —— Ravenna
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Levey, M. Maurice —— Toledo
Levine, Sidney —— Cleveland
Lewis, Robert L.  ----  Toledo
Lipski, Harry E.  ----  Toledo
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McKay, Claude C.  ----  Springfield, Mass.
McElroy, Mozelle  ----  Ada
Miller, John N.  ----  Lima
Miller, R. Rudy  ----  Cleveland
Monnott, M. L.  ----  Ford City, Pa.
Miller, J. A.  ----  St. Clairsville
Pfalzgraf, F. D.  ----  Clarington
Prince, Charles  ----
Follansbee, W. Va.  ----
Rich, Frank A.  ----  Lakewood
Robertson, Donald  ----  Warren
Ross, Michael  ----  Canton
Reiser, L. M.  ----  Napoleon
Reese, Walter  ----  Dayton
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Shifman, Carl  ----  Canton
Silbaugh, Verne  ----  Lancaster
Snyder, Ralph L.  ----  Ada
States, Leland  ----  Ada
Steele, Raymond  ----
Martins Ferry
Steiner, James B.  ----  Lima
Summers, S. L.  ----  Ravenna
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Swanson, M. N.  ----  Toledo
Stickles, Edward  ----  Pittsfield, Mass.
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Tarnoczki, Andrew  ----  Barberton
Terwilliger, H. E.  ----  Wapakoneta
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Van Dine, Okey  ----  Jamestown
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Wines, John R.  ----  Akron
Wood, Russell G.  ----
Cuyahoga Falls
Young, Clair A.  ----  Caldwell
Younker, Paul W.  ----  Greenville
Zurz, Vincent  ----  Akron

Special Law

Blackford, A. F.  ----  Findlay
Frankowski, Leo  ----  Toledo
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Levitt, Manuel  ----  Cleveland
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Moore, W. E., Jr.  ----  Woodsfield
Murphy, John L.  ----  Lima
Rossetti, John  ----  Canton
Russell, Bernadette  ----  Kenton
Schriever, D. S.  ----  Cleveland
Stein, David  ----  Cleveland

Archibald, John  ----
Wheeling, W. Va.
Asman, Luther W.  ----  Marysville
Anderson, J. M.  ----  Barberton
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Barry, R. W.  ----  McKeensport, Pa.
Bartram, R. C.  ----  Ashtabula
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Buchanan, S. J.  ----  Willshire
Butch, Felix P.  ----  Leetonia
Bertram, Raymond  ----  Cleveland
Cavett, J. N.  ----  North Baltimore
Ceser, Edward  ----  Cleveland
Chaky, Francis G.  ----  Cleveland
Christopher, T. C.  ----  Greenfield
Cieslak, Walter E.  ----  Cleveland
Cistone, Joe  ----  East Cleveland
Cliffrord, R. P.  ----  McDonald
Coco, Frank  ----  Cleveland
Columbi, Christopher  ----
Cleveland
Conkle, C. K.  ----  East Palestine
Conrade, Frederick  ----  Zanesville
Cook, Charles B.  ----  Nelsonville
Cotner, Robert  ----  Ada
Cramer, Hugh L.  ----  Lima
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Lima
Cremer, Manuel  ----
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Davis, Donovan  ----  Lima
Deisher, Richard  ----  Lakewood
Demarsh, Louis  ----  Lowellville
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COMMERCEx

Allen, Mildred _______ Richwood
Anderson, M. H. __ Hillsboro
Binkley, W. V. _______ Ada
Binkley, Fay __________ Ada
Barre, Pauline __________ Centerburg
Butcher, Helen __________ Morral
Campbell, Roy ____________ North Baltimore
Carr, Leonard _______ Antwerp
Conway, Mary H. __ Cleveland
Cretors, Ellsworth __ St. Paris
Cripps, Ruth __________ Ada
Dorringer, Audren ______ Ada
Dierks, Rainey _______ Bryan
Dimler, C. L. __________ Bryan
Doty, Bernita _______ Benton Ridge
Epley, Doris __________ Ada
Ferry, Eloise __________ Marysville
Gaus, Albert H. __________ Alber
Harrod, Eleanor _______ Bucyrus
Holsapple, Ruth ______________ New Weston
Harvey, Dorothy ______ Ada
Kelly, Eleanor __________ Ada
Kelly, Rachel __________ Ada
Klingler, Margaret ______ Ada
Lea, Dallas __________ Ashley
Lang, Jo _____________ Lima
Morris, Ruth __________ Ada
McClung, C. L. _______ Marion
McKee, Eliza __________ Ada
McLaughlin, Mary ______ Ada
McWilliams, Cecile ________ Ada
Martin, Helen ___________ Wapakoneta
Moore, Dorothy __________ Youngstown
Martiny, Lawrence __________ Allegany, N. Y.
Myers, Elizabeth _______ Ada
Martig, John A. Jr. ______ Ada
Newland, Gerald _______ Alber
Newcomb, Ruth __________ Ada
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Porter, Mary Louise _______ Detroit, Mich.
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Ramsey, Doris __________ Belle Center
Rickenbacher, Wilma __________ Forest
Richards, Harold _____________ Millersburg
Rosenheim, Leone ________ Lima
Searles, W. W. __________ Ada
Schafer, G. E. ____________ Medina
Sloan, Isabel _____________ Adasi
Siniff, Dale _______________ Ohio City
Smith, Kathryn __________ Centerburg
Stewart, James T. ____________ Brush Valley, Pa.
Stevens, Rosa Lee ________ McGuffey
Snyder, Edith ____________ Ada
Sill, Gwendolyn ___________ Youngstown
Thomas, Edith ____________ Ada
Troup, Ruby _____________ Bucyrus
Wildar, Mary ____________ Springfield
Wokaty, R. C. ___________ Cleveland
Ward, Miller H. __________ Ada
Whiteman, Helen ____________ Liberty Center
Zimmerman, Madge _________ Ada

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Baker, Elizabeth ________ Ada
Baker, Evelyn __________ Rawson
Bellville, Emma __________ Marysville
Burgoo, Ethel __________ Ada
Bish, Margaret __________ Ada
Elbin, Guy ______________ Ada
Hider, Mrs. C. A. ________ Toledo
Klingler, Elizabeth _______ Ada
Lowman, C. R. __________ Ada
Markley, Hazel __________ Ada
Morrison, Malcolm ________ Ada
Reed, Gladys ______________ Ada
Rettig, Eunice ___________ Arlington
Swope, Daniel ___________ Dayton

PHYSICAL EDUCATION

Arnold, George B. __________ Pittsburgh, Pa.
Butler, Helen __________ Albion, Ind.
Campbell, Robert __________ Vandergrift, Pa.
Carter, Brock J. _______ Salamanca, N. Y.
Clear, Zola ___________ Elkhart, Ind.
Dudgeon, F. B. ____________ Warren
Durbin, Pauline ___________ Ridgeway
Elliott, H. A. __________ Homestead, Pa.
Ferrall, Walter __________ Ada
Fireovid, Ellen ___________ Shelby
Fogel, Nelle __________ Dunkirk
Gaglione, P. J. ___________ Youngstown
Gehrisch, Falita __________ Ada
Hinkle, Hobart ___________ Dunkirk
Hughes, Bernard __________ Lima
Hunt, K. C. _______________ Lima
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Jameson, Robert __________ Ada
Jones, Jeanette __________ Ada
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**Music**

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Sautter, Mary Lois  Ada
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Warren, Millicent  Ada
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Whiteman, Gertrude  Liberty Center
Watkins, Blodwen  Lima
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Wilcox, Evelyn  Ada
Wilson, Virginia  Ada
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SPEECH

Artz, Helen  Agosta
Althaus, Bernice  Bluffton
Benge, Genevieve  LaRue
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**Specials**

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