GENERAL CATALOGUE

OHIO NORTHERN UNIVERSITY

1950-51
(THE 79th YEAR)

Announcements for 1951-52

PUBLISHED QUARTERLY BY
OHIO NORTHERN UNIVERSITY
VOL. XLII, NO. 2

ADA, OHIO
April, 1951
Visitors are cordially welcomed at Ohio Northern University, and the Department of Public Relations has guides available. The Administrative Offices in Lehr are open Monday through Friday from 8:30 to 4:30. On Saturday the offices close at noon. All staff members are available for interviews providing that appointments are made in advance.
OUR AVOWED PURPOSE

Ohio Northern University operates on the premise that good education and vital religion go hand in hand.

We are pledged to the progressive attainment of the best in the education of our students. We propose to carry on this educational process in the general atmosphere of Christian philosophy. While Ohio Northern belongs to the Methodist Church, we are in no sense a sectarian institution. Students of all creeds, races, and national backgrounds are welcomed to our campus. The whole tradition of Ohio Northern is in keeping with its avowed purpose; namely, to offer the facilities of a fine education in a Christian environment to all who can qualify and who sincerely desire it. We believe that the supreme need for this and the following generations is for leaders in all professions who have benefited by such opportunities. We are confident that the perpetuity and the effectiveness of our democracy is dependent upon some such combination as we offer here.

To these ends, therefore, the trustees, the faculty, and the administrative officers of Ohio Northern University dedicate their best thought and energies.

F. Bringle McIntosh, President
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORRESPONDENCE DIRECTORY</td>
<td>7</td>
</tr>
<tr>
<td>(Inside front cover)</td>
<td></td>
</tr>
<tr>
<td>ACADEMIC CALENDAR</td>
<td>7</td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
<td>9</td>
</tr>
<tr>
<td>Introducing Ohio Northern, The Education Program, The University Plant,</td>
<td></td>
</tr>
<tr>
<td>Student Life and Activities, The Health Program, Scholarships, Prizes,</td>
<td></td>
</tr>
<tr>
<td>and Loans, General Academic Procedures, Admission to the University,</td>
<td></td>
</tr>
<tr>
<td>Important Regulations.</td>
<td></td>
</tr>
<tr>
<td>SUMMARY OF QUARTERLY TUITION AND FEES</td>
<td>35</td>
</tr>
<tr>
<td>ORGANIZATION OF OHIO NORTHERN UNIVERSITY</td>
<td>36</td>
</tr>
<tr>
<td>The Board of Trustees, Administration Staff and Faculty</td>
<td></td>
</tr>
<tr>
<td>COLLEGE OF LIBERAL ARTS</td>
<td>48</td>
</tr>
<tr>
<td>Curricula and Course Descriptions</td>
<td></td>
</tr>
<tr>
<td>COLLEGE OF ENGINEERING</td>
<td>139</td>
</tr>
<tr>
<td>Curricula and Course Descriptions</td>
<td></td>
</tr>
<tr>
<td>COLLEGE OF PHARMACY</td>
<td>155</td>
</tr>
<tr>
<td>Curriculum and Course Descriptions</td>
<td></td>
</tr>
<tr>
<td>COLLEGE OF LAW</td>
<td>168</td>
</tr>
<tr>
<td>Curriculum and Course Descriptions</td>
<td></td>
</tr>
<tr>
<td>DEPARTMENTAL FEES</td>
<td>181</td>
</tr>
<tr>
<td>CITATIONS ANNOUNCED ON UNIVERSITY RECOGNITION DAY, MAY 16, 1950</td>
<td>185</td>
</tr>
<tr>
<td>HONORARY DEGREES CONFERRED, MAY 28, 1950</td>
<td>187</td>
</tr>
<tr>
<td>GRADUATES OF 1950</td>
<td>187</td>
</tr>
<tr>
<td>REGISTER OF STUDENTS</td>
<td>192</td>
</tr>
<tr>
<td>GEOGRAPHICAL DISTRIBUTION OF STUDENTS</td>
<td>209</td>
</tr>
<tr>
<td>PRELIMINARY APPLICATION BLANK</td>
<td>213</td>
</tr>
<tr>
<td>INDEX</td>
<td>210</td>
</tr>
</tbody>
</table>

5
<table>
<thead>
<tr>
<th>Month</th>
<th>1951</th>
<th>1952</th>
</tr>
</thead>
<tbody>
<tr>
<td>JANUARY</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>FEBRUARY</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>MARCH</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>APRIL</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>MAY</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>JUNE</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>JULY</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>AUGUST</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>SEPTEMBER</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>OCTOBER</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>NOVEMBER</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
<tr>
<td>DECEMBER</td>
<td>S M T W T F S</td>
<td>S M T W T F S</td>
</tr>
</tbody>
</table>

For more information or specific months, please refer to the calendar page.
ACADEMIC CALENDAR, 1951-1952

SUMMER SESSION, 1951
First Term, June 11, Monday to July 13, Friday
Second Term, July 16, Monday to August 17, Friday

FALL QUARTER, 1951
Sept. 4-7, Tuesday through Friday ________________ “Freshman Week”
Sept. 4-5, Tuesday and Wednesday ______________ Freshman Tests; Law
Registration and Payment of Fees
Sept. 6, Thursday _______________ Registration and Payment of Fees;
Law Classes begin
Sept. 7, Friday ______ Liberal Arts, Engineering and Pharmacy classes
begin
Oct. 6, Saturday ____________________________ Homecoming
Oct. 22-26, Monday through Friday __________ Pre-registration for
Winter Quarter
Nov. 16-17, 19-21, Friday (p.m.) through Wednesday ______ Examinations
Nov. 21, Wednesday ________________________ Fall Quarter Closes

WINTER QUARTER, 1951-52
Nov. 26, Monday ________________ Registration and Payment of Fees
Nov. 27, Tuesday __________________ Classes Begin
Dec. 15-Jan. 2 _______________________ Christmas Vacation
Jan. 3, Thursday ______________________ Classes Resume
Jan. 28-Feb. 1, Monday through Friday __________ Pre-registration
Feb. 25-29, Monday (p.m.) through Friday __________ Examinations
Feb. 29, Friday ________________________ Winter Quarter Closes

SPRING QUARTER, 1952
Mar. 3, Monday ________________ Registration and Payment of Fees
Apr. 11-20, ______________________ Easter Vacation
Apr. 21, Monday __________________ Classes Resume
Apr. 28-May 2, Monday through Friday __________ Pre-registration
May 26-30, Monday (p.m.) through Friday __________ Examinations
May 31, Saturday _____________________ Alumni & Class Day
June 1, Sunday ______________________ Baccalaureate and Commencement

SUMMER SESSION, 1952
First Term, June 9, Monday to July 11, Friday
Second Term, July 14, Monday to August 15, Friday.
INTRODUCING OHIO NORTHERN

LOOKING BACKWARD

The Northwestern Ohio Normal School was formally opened on August 14, 1871, in a three-story building where the Lehr Memorial now stands. Henry Solomon Lehr, the founder and president, stated in his first catalogue that the purpose of the school was “the instruction and training of teachers in the science of education and the art of teaching and the best methods of governing schools.” For many years the school was one of the outstanding private institutions offering professional training to elementary and high school teachers.

On May 19, 1885, the state of Ohio issued a charter to the institution under the name of the Ohio Normal University. In 1898, the Central Ohio (now the Ohio) Conference of the Methodist Church purchased the school from Doctor Lehr and his associates. In 1904, the University was renamed the Ohio Northern University, and in December 1907, the charter was amended. Throughout the years the institution continued to grow to enlarge its field of activities.

In 1880, the Department of Civil Engineering was established and when the demand for engineers increased this department was organized as the College of Engineering with additional departments in electrical and mechanical engineering.

In 1884, the laws of Ohio required that all pharmacists should be registered. To meet the demand for trained and qualified pharmacists the Department of Pharmacy was established. Later this Department was organized as the College of Pharmacy.

The College of Law was established in 1885. Not only have its graduates been successful as practitioners but they have also distinguished themselves in the field of public affairs; at the same time four of its graduates were members of the United States Senate—two from Ohio, one from Indiana, and one from Kentucky. Two of the graduates of the College of Law were members of the Ohio Supreme Court.

The College of Liberal Arts was reorganized in 1910 so that it offered a well-balanced curriculum in the field of general cultural training. The college also provided a thorough foundation for all students desiring pre-professional preparation.

LOCATION

Ohio Northern University is located in Ada, an attractive and enterprising town in Hardin County, Ohio. Situated on the Pittsburgh, Fort Wayne and Chicago division of the Pennsylvania Railroad, and on
State Route 69, two miles north of the Harding Highway (Route 30S), and four miles south of the Lincoln Highway (Route 30N), and nine miles south of the Dixie Highway (Route 25), the University is easily accessible by railway or motor bus.

**AFFILIATIONS**

Ohio Northern University holds membership in the Ohio College Association. The College of Pharmacy belongs to the American Association of Colleges of Pharmacy and is accredited by the American Council on Pharmaceutical Education. The College of Law is a member of the League of Ohio Law Schools and is provisionally approved by the American Bar Association. The University is on the approved list of the University Senate of the Methodist Church for the training of ministers.

The Department of Education of the State of Ohio gives full recognition to Ohio Northern University as an institution for the preparation of teachers. The Department grants a certificate to teach to any Ohio Northern student who successfully completes the curriculum in elementary or secondary education.

**RESOURCES**

Ohio Northern University's greatest resources have been the interest and support of the Ohio Conference and the Northeast Ohio Conference along with the gifts of the University's alumni and many friends. Ohio Methodism at the present time is attempting to raise $500,000. for the development of Ohio Northern. Countless alumni contribute yearly to the University's Alumni Fund. Such gifts are extremely necessary since students of the University cannot be expected to pay the total cost of their education.

**FACULTY**

Ohio Northern's teaching faculty includes fifty-four persons, about one third of whom have earned doctorates or their equivalents from leading universities. As a Christian college, Ohio Northern expects to secure certain qualities in its faculty members. Such qualities are Christian conviction, ability to teach, broad teaching experience, a definite interest in the individual student, and advanced training in a recognized graduate school.
STUDENT BODY

Of the 1393 students who were in residence at Ohio Northern University during the academic year, 1949-50, 1290 were residents of the state of Ohio. Pennsylvania and New York were the states which were next best represented. Eleven other states and two foreign countries were represented. Most of Ohio Northern's students come from church-affiliated homes with Methodist young people being the most numerous in attendance.

ALUMNI

Ohio Northern counts among its alumni a great number of men and women who have distinguished themselves in the field of education, business, science, the Christian ministry, engineering, pharmaceutical research, law, public service, statesmanship, music, and other vocations.

GRADUATE PLACEMENT

The University is not only interested but takes an active part in the satisfactory placement of its graduates. Deans and departmental heads assist their students in arranging for professional and graduate work or securing desirable locations in which they may carry on their vocational careers.

Graduating seniors and alumni who are in fields other than education may register with the Dean of the University. The University does not guarantee each graduate a position, but it makes every effort to place students, who have completed their training, in positions where their qualifications should make them most successful. Neither the candidate nor the employer is charged a fee for this service.

The Teachers' Placement Bureau assists, without charge, students in securing teaching positions. Graduates, former students, and seniors are brought in direct communication with school officials in search of good teachers. A number of superintendents and principals owe their present positions to direct calls to this bureau.

It is recommended that seniors who plan to apply for admission to professional schools or graduate schools take the Graduate Record Examination during the last year of residence. Many professional and graduate schools require this examination as one of the qualifications for admission. Ohio Northern is an examining center for the administration of the Graduate Record Examination.
THE EDUCATIONAL PROGRAM

THE QUARTER SYSTEM

Ohio Northern University’s academic year is divided into three quarters of approximately equal length, designated as Fall, Winter, and Spring. There is also a Summer quarter of ten weeks.

Beginning with the Summer Quarter, 1951 an accelerated program will be offered in all four of the colleges of Ohio Northern University. This accelerated program is to assist all students who desire to complete their college courses as quickly as possible during the present emergency.

UNIVERSITY ORGANIZATION

Four colleges comprise Ohio Northern University.

The College of Liberal Arts is organized into five divisions so as to give the student greater flexibility in his program and also to provide integration of the curriculum around larger areas of knowledge. The divisional organization of the Liberal Arts departments is as follows:

I. DIVISION OF LANGUAGE, LITERATURE AND ARTS (Chairman to be named)
   English
   Speech and Theater Arts
   Foreign Language
   Music

II. DIVISION OF SCIENCE AND MATHEMATICS (Chairman, Berger)
   Biology
   Chemistry
   Mathematics
   Physics

III. DIVISION OF SOCIAL SCIENCES (Chairman, Binkley)
   Economics and Business Administration
   History and Political Science
   Psychology and Sociology
   Religious Education, Bible, and Philosophy

IV. DIVISION OF PHYSICAL EDUCATION AND APPLIED ARTS (Chairman, Lamb)
   Physical Education
   Industrial Arts
   Home Economics
V. DIVISION OF TEACHER EDUCATION (Chairman, Vannorsdall)
Secondary Education
Elementary Education

The College of Engineering offers a four year curriculum in Civil, Mechanical or Electrical Engineering.

The College of Pharmacy offers a three year curriculum which leads to a Bachelor's degree in Pharmacy. Each student must have at least one year of pre-pharmacy in an accredited institution before he will be admitted into the Ohio Northern University College of Pharmacy. Care should be taken that all subjects taken in the year of pre-pharmacy will meet the necessary requirements for admission to the College of Pharmacy at Ohio Northern University. It is also necessary that the student earn a C average in his pre-pharmacy course of study.

The College of Law requires a three year course of study which leads to a Bachelor of Laws degree. Every student must present at least two complete years of work in an accredited Liberal Arts College before he will be accepted by the Ohio Northern University College of Law. It is also necessary that the student earn at least a C average in his pre-law course of study.

TEACHER EDUCATION

The Ohio Northern University is accredited by the State Department of Education to train teachers in the following fields: Elementary, High School, Industrial Arts, Health and Physical Education, Public School Music, and Business Education.

Students who are planning to teach should consult with the Director of Teacher Training as early in their college course as possible.

SUMMER SESSION

Ohio Northern University has been one of the pioneer institutions in maintaining a summer session, which has been readily adapted to the accelerated program of education and training desired by ex-service men and women. The summer session is composed of two terms of five weeks each, five days a week in the College of Liberal Arts and one term of ten weeks in the Colleges of Engineering, Pharmacy and Law. The first term of the 1951 Summer Session opens June 11 and closes July 13; the second term begins July 16 and closes August 17.

The purpose of the Summer Session is to provide opportunity for regular college students to work toward a college degree or other pro-
fessional goals and thus shorten the time required for the completion of their program. By continuing in residence during summers, many students complete their four-year course in three years.

The College of Liberal Arts, including the Division of Teachers' Training, offers an extensive program of academic and professional courses for elementary teachers, high school teachers and supervisors of health and physical education, public school music, commerce and industrial arts.

For many years the Summer Session has been popular with teachers who have come from many sections of the country to acquire information and knowledge essential to success and to gain inspiration for future service. The spirit that prevails on the campus throughout the Summer Session has proved a lasting influence in the lives of many teachers.

**EXTENSION COURSES**

In order to meet the needs of teachers in service and others, the University maintains an Extension Department. Classes will be organized in centers where there is sufficient demand. Students enrolling in these courses are expected to do the regular college work. Not more than one-fourth of any curriculum leading to a degree or diploma shall be taken in extension classes. No courses are offered by correspondence.

For information write the Director of Teacher Training.
THE UNIVERSITY PLANT

THE CAMPUS

The University owns over 100 acres of ground in and around Ada providing ample room for present needs and future expansion. The central campus lies a few blocks south of the railroad in a central quadrangle. It is easily accessible from any part of the village.

BUILDINGS AND EQUIPMENT

LEHR MEMORIAL, a modern three-story fire-proof building, housing the offices of the administration, the Lehr Auditorium, Student Christian Association, Alumnae Hall, and the Northern Review Office, is located in the center of the quadrangle. Lehr auditorium, with a seating capacity of 1,237, provides ample lecture and concert hall. The building was erected in 1915 and dedicated to Henry Solomon Lehr, the founder of the University.

HILL MEMORIAL, a two-story fire-proof building, named in honor of John Wesley Hill, Sr., contains the College of Engineering, the laboratories for Electrical and Mechanical Engineering and the Departments of Physics and Mathematics.

DUKES MEMORIAL, located at the south end of the campus, contains the College Pharmacy, the Department of Chemistry, the Health Service Dispensary, and a department library and reading room.

BROWN MEMORIAL, situated at the north end of the front campus, houses the University Library and the laboratories and equipment of the Department of Industrial Arts.

THE POWER PLANT in back of HILL MEMORIAL is a unit of modern design.

THE WARREN G. HARDING COLLEGE OF LAW, occupies a splendid building north of the central campus on the corner of Main Street and University Avenue. It contains class rooms, together with the Law Library and study room. This building was erected and dedicated in 1925.

THE DEPARTMENT OF BIOLOGY occupies a two-story structure located at the corner of Gilbert Street and College Avenue. Nearby is an experimental greenhouse.
PRESSER MUSIC HALL, bearing the name of Theodore H. Presser, is a modern three-story structure with splendid auditorium, sound-proof practice rooms, class rooms, and studios for both the music and an expanded dramatics department. A new radio studio is being completed on the third floor of this building.

TAFT GYMNASIUM, named in honor of John H. Taft, the principal donor, is situated at the corner of Union Street and West University Avenue. It contains twenty-six rooms. In addition to the main basketball court with its galleries and bleachers, having a seating capacity of 1,800, there are a volley ball court, two auxiliary playing courts, a fencing room with bleachers, examination rooms with first aid equipment, a running track, faculty club room, offices for coaches and members of the faculty of physical education, the physical education classrooms. The cluster lights at the side 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.

ATHLETIC FIELDS

Adjacent to the Taft Gymnasium is the Taft Athletic Field, containing a well-drained and heavily sodded football gridiron, encircled by a cinder running track with 120-yard straightaway. There are also two auxiliary gridirons, a baseball diamond and tennis courts.

THE MEMORIAL PARK AND STADIUM, for which the University donated the site to the Ada community, is available to the University. Here are held football games and track events. A new, permanent grandstand was erected at the Stadium in 1950. This improvement was financed by the generosity of the Ada community.

LIVING FACILITIES

THE TERRACE, built by S. M. Johnson, pioneer resident of Ada, and acquired by the University in 1939, may be assigned to first year women. The second floor of this colonial residence accommodates sixteen girls and a house director. An attractive lounge completes the house plan.

The first floor of the new Student Center and Girls' Dormitory, located on Union Street, was opened for use at the beginning of the fall quarter of the 1950-51 academic year. This building contains a large lounge which is used for social purposes. Thirty girls and a housemother are housed in another section of the building. The second story of this structure is in the process of completion. When finished, it will house sixty additional women students.
THREE TRAILER CAMPS, Lehr, Taft, and Presser, with a total of 76 trailer-type housing units are located on the campus. These have been secured through the FPHA and are available to married students who are in attendance with their families. Sixty-six of these units are of standard size and ten are of the larger size and are designed for families with children. Each of the three camps has utility units including laundry.

FIVE DORMITORY UNITS, furnished to accommodate 72 students are located near the Taft Gymnasium. These, too, have been secured through the FPHA to help house the veteran-student during the housing emergency of the immediate post-war period.

HEALTH FACILITIES

The Health Center is a two-story frame building located on University Avenue back of the Warren G. Harding College of Law. It contains a reception room, an office and treatment room, quarters for a resident attendant, and an infirmary for students.

LABORATORIES

The various laboratories of the University and their equipment are located in the following buildings: Dukes Memorial, Hill Memorial, Lehr Memorial, Presser Hall, Brown Memorial, Biology Building and the Power Plant.
STUDENT LIFE AND ACTIVITIES

Ohio Northern University attempts to develop well-rounded individuals, hence it provides ample opportunities for religious, cultural, social, and recreational activities which are designed to aid the student in developing all aspects of character and personality.

GENERAL STUDENT ORGANIZATIONS

THE STUDENT COUNCIL exists to provide self-government in many areas of student life, to develop the capacity of self-direction and to establish and defend growing ideals of student character and activity.

The Student Council supervises campus elections; it plays a prominent part in the Homecoming festivities each year; it has charge of the May Day celebration, and sponsors several all-college dances and social events throughout the academic year.

THE ASSOCIATION OF WOMEN STUDENTS. Under a grant of powers from the University Administration, the Association of Women Students was organized to further social and intellectual cooperation among the women students. Each woman student is a member of the Association and is directly represented on the House Council and Legislative Board by the president of her residence unit. The Executive Board endeavors to co-ordinate the activities of all women's groups on the campus and to plan a constructive social program. The Dean of Women is adviser for A. W. S.

THE ROUNDTABLE FOR FRESHMEN WOMEN, held under the direction of the Dean of Women, exists as an aid in adjustment to campus life. At these meetings various speakers informally discuss those problems of orientation most frequently presented to first-year women students.

RELIGIOUS ORGANIZATIONS AND ACTIVITIES

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

Although the University is the property of the Ohio Conference of the Methodist 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 community cordially welcome students to their religious and social meetings and Bible classes. The following denominations are represented: Methodist, Presbyterian, Lutheran, Church of Christ, Baptist, Roman Catholic and a Grace Gospel Church.
The Department of Religion and Philosophy as well as an expanded Department of Christian Education affords an opportunity to those who wish to take up the study of religious problems to fit themselves for life's work.

THE CAMPUS PASTOR exists to make counsel readily available to those experiencing personal, moral or religious perplexities during their college years of rapid development. He seeks to serve in a special way which will not duplicate the services of the local churches.

THE MINISTERIAL ASSOCIATION, composed of young men studying for the ministry of various denominations, holds weekly meetings. Its purpose is to aid in developing a spiritual and practical outlook on the Christian ministry through contacts with men already in active service in the church.

THE STUDENT CHRISTIAN ASSOCIATION has been formed by merging the former student Y.M.C.A. and Y.W.C.A. The S.C.A. is open to any student of the University and purposes to develop and strengthen the spiritual life of its members and to wield a wholesome influence on the life and habits of the general student body.

OMEGA PHI KAPPA is a group sponsored by the World Fellowship Group of the S.C.A. Its aim is "Every woman of the University world today a leader of the Church of Tomorrow."

SOCIAL ORGANIZATIONS

Ohio Northern University has seven national social fraternities, three national professional fraternities, and three local sororities. The Interfraternity Council is the governing body for the fraternities and the Pan-Hellenic Council is the governing body for the sororities.

The seven national social fraternities with the dates of their establishment at Ohio Northern are: Alpha Epsilon Pi, 1923; Alpha Sigma Phi, 1942; Delta Sigma Phi, 1920; Phi Mu Delta, 1926; Sigma Phi Epsilon, 1905; Sigma Pi, 1912; Theta Kappa Phi, 1925.

The three national professional fraternities with the dates of establishment at Ohio Northern are: Kappa Psi Pharmaceutical Fraternity, 1920; Delta Theta Phi (Law), 1910; Sigma Delta Kappa (Law), 1923.

The three local sororities with the dates of their founding are: Phi Chi, 1909; Tau Kappa Kappa, 1900; and the Theta Phi Delta, 1909.
HONORARY SOCIETIES

ALPHA PHI GAMMA for students who have shown ability in journalism is evidenced by meritorious work on the student publications.

THETA ALPHA PHI for students showing promise of histrionic ability.

SIGMA KAPPA PHI for superior students from all language fields, who have done very good work in the language in which they major and hold an average of at least 1.75 quality points per hour.

PHI LAMBDA PI whose purpose is to create greater interest in the study of biology and to promote high scholarship in this department.

NU THETA KAPPA for men in the College of Engineering is open to junior and senior students who have made at least 1.7 quality points per hour and who stand well in general activities.

DEPARTMENTAL AND PROFESSIONAL ORGANIZATIONS

Special organizations, many of them chapters of national organizations, are active in all of the colleges of the University. Members of these groups meet at fortnightly intervals to discuss special problems in their respective areas.

The American Institute of Electrical Engineers
The American Society of Civil Engineers
The American Society of Mechanical Engineers
The Biology Club
The Commercial Club
The Junior Bar Association
The Pharmaceutical Association
Student Affiliates of the American Chemical Society
The Radio Club
The Press Club
The Toastmasters’ Club

MUSICAL ORGANIZATIONS

CHORAL SOCIETY. The Ohio Northern University Choral Society is made up of University students and people of the community. It is open to all singers who love and appreciate good music. Every December the Choral Society presents The Messiah.

CHORUS-CHOIR. A chorus composed of about sixty-five carefully selected students from all of the colleges singing the highest types of music, secular and sacred. Frequent appearances at the University as well as outside communities are made each year.
UNIVERSITY ORCHESTRA. The orchestra organized in the fall quarter, studies works of the great composers and appears with the Choral Society and in concert at the University.

UNIVERSITY BAND. One of the oldest musical organizations on the campus, the Band appears at football and basketball games, in concert, and at other school functions.

RECITALS. Faculty and student recitals by members of the music department are presented frequently, and a series of concerts by well-known artists is presented each year. Guest soloists are invited to assist in the presentation of great works of the composers.

DEBATING AND DRAMATICS GROUPS

THE OHIO NORTHERN DEBATING ASSOCIATION is a member of the Ohio Intercollegiate Debate Conferences for both men and women. There are other intra-and inter-state forensic contests for either men's or women's teams. Membership is open to any student interested in the object of the association. Teams are selected and assisted in their training by a faculty committee.

THE NORTHERN PLAYERS, a dramatic club sponsored by the Department of Speech, present several plays each year. Enrollment in this club is open to all students of the University, except Freshmen, who pass the try-outs. Various types of dramatic productions are given public presentation.

During the 1949-50 academic year five plays were presented: January Thaw, The Fool, The Black Flag, The Parlor Story, and Twelfth Night. The Northern Players also have presented The Rock and Rip Van Winkle to many churches and groups outside of Ada.

The Program of the Department of Speech and Theater Arts for 1950-51 includes the following plays: Belvedere, The House of Rimmon, Abie's Irish Rose, Uncle Tom's Cabin, The Ghost Train, and Henry IV, (Part One).

THE FRESHMAN PLAYERS is an organization composed of Freshmen who secure a preliminary training and experience in public presentations.

STUDENT PUBLICATIONS

The Northern, the annual yearbook published by the students of the University, contains a record of student activities for the year. Each student receives a copy of the book at the close of the spring quarter as a part of the University activity program.
The *Northern Review* is a bi-weekly newspaper published throughout the regular year by the students of the University. Positions on the staff of the newspaper are open to all students on a competitive basis. Scholarships are awarded annually to the editor-in-chief and business manager.

The *Northern Handbook* is published annually by the Student Council and the administration of the University. A copy of this publication is given to each entering freshman.

The chairman of the Faculty committee on Student Publications serves as adviser to these publications.

**RECREATION AND ATHLETIC GROUPS**

Ohio Northern is a member of the Mid-Ohio Athletic Conference and is well represented in football, basketball, baseball, tennis and track. The general control of athletics is vested in the Athletic Committee of the faculty.

**INTRAMURAL SPORTS.** The intramural sports of the campus are under the direction of the Athletic Department. The Interfraternity Council sponsors an All-Sports Trophy for the outstanding fraternity team that has won the most sports contests during the school year. Two trophies are presented for major and one for minor sports on Recognition Day.

There is no trophy for independent competition. All independent teams and individual participants entering competition must register with the athletic department. They must also maintain scholastic eligibility. Members of either varsity or freshman intercollegiate teams are ineligible to enter intramural sports.

Major sports include: “touch” football, baseball, softball, and volleyball. Minor sports include: swimming, horseshoes, golf and tennis.

**WOMEN'S ATHLETIC ASSOCIATION.** The W.A.A. is open to all women students who are interested in athletics. Its members plan and help carry out the girls' intramural sports program, to boost interest in sports participation among the women students of Ohio Northern University.

"N" MEN. The "N" Men organization is composed of men who have won letters in intercollegiate sports in accordance with the regulations set up by the Department of Health and Physical Education.
THE HEALTH PROGRAM

The University employs the service of the physicians of Ada and one registered nurse for the purpose of providing efficient health service to the student body. It maintains its own infirmary and dispensary. Each student is entitled to this health service which includes office consultation and treatment by a physician, medicines from the University dispensary and use of the infirmary in case of illness. Each student is entitled to ten days treatment in the infirmary without charge except for meals, special medicines, and treatment. The Department of Health and Physical Education keeps an accurate record of the physical condition of each student and provides instruction in personal health care.

Health examinations are required upon admission to the University and, at the judgment of the Health Committee, may be required at any time the interests of the student or of the University may indicate. A complete health report provided by the family physician is required of all new students. The necessary forms are sent to the entering student prior to the opening of college.

In all instances of accident or emergency when the University aids in sending a student to a hospital or in arranging for the services of a specialist, it must be understood that the University is acting temporarily in the place of the parents and it assumes no responsibility for the expense incurred. The University reserves the right, at any time, to take measures which it deems desirable in any health situation.
SCHOLARSHIPS, PRIZES, AND LOANS

SCHOLARSHIPS

The permanent endowments and funds indicated below are for the provision of scholarships and loans to worthy and needy undergraduates who cannot otherwise meet the total expenses of university attendance. As the university receives many more requests for assistance than can be met with available funds, the Administration necessarily grants scholarships only to the most worthy applicants.

All awards are made on the basis of need, scholastic competence and character, and all recipients are expected to maintain superior performance standards.

1. Mr. and Mrs. Serge F. Edwards Scholarship ($2,500.00). 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). 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).

4. The James E. and Caroline Purvis Scholarship ($1,000.00).

5. The Ralph Parlette Scholarship ($1,000.00).

6. The Pleasant Hill Society of the Roundhead Circuit of the Methodist Church Scholarship ($1,000.00).

7. The Justin Brewer Scholarship ($1,000.00).

8. The Rutter-Taggart Scholarship (2,500.00). Students who are in need of financial assistance, and who have attained scholastic standing in the upper third of their college class are eligible for the income from this scholarship. Preference in awarding this scholarship will be given to students in the College of Law.

9. The Ralph Sealand Scholarship, established by Mrs. Arabella Canfield Sealand, in memory of her son, of $2,415.20, the income of which may be awarded by the president of the University to any undergraduate beyond the freshman year in any college of the University on the basis of need, character, ability, promise of usefulness, and scholastic attainment.
10. The David and Catherine Kegerreis Albright Scholarship ($5,000.00).

11. The Sophia Felker Memorial Scholarship, established by Mr. and Mrs. Robert H. Heterick, in memory of Miss Felker ($5,000.00). The income from this fund is awarded annually on the basis of scholarship and character with preference given to science majors.

12. The Mr. and Mrs. John V. Melick Scholarship ($6,000); the beneficiaries to be students preparing for the ministry or some special work of the church.

13. The Dr. Byron Evans Baker Scholarship Fund ($15,000). The income from this fund is available to students adjudged by the University Administration to be both worthy and needy.

14. The Pharmacy Foundation Scholarships ($400.00 per year). The total amount is available each year for awards to students of junior or senior standing in the college of Pharmacy who are in the upper quarter of their class scholastically and have maintained a minimum "B" average and who have, in addition, demonstrated their need for financial aid.

15. The Frances and Robert Heterick Memorial Scholarship Fund ($1000). The income from this fund is available for awarding to students adjudged by the University Administration to be both worthy and needy.

PRIZES

Lehn and Fink, Inc., New York, gives a gold medal to the pharmacy student accomplishing the most toward the advancement of pharmaceutical science.

Mrs. Avanel Stambaugh of Ada, Ohio gives $20.00 a year for winners in the song contest.

The Northwestern Ohio Pharmaceutical Association awards an annual prize in honor of Dean Emeritus Rudolph H. Raabe. The selection of the student to receive the award is made by the Dean and Faculty of the College of Pharmacy.

FACULTY WIVES CLUB AWARDS

A creative writing award of twenty-five dollars will be made for an original essay of one thousand words and a poem, short story, or one-act play.

In musical composition, twenty-five dollars will be awarded for an original musical composition, vocal or instrumental, college song excepted.
LOAN FUNDS

1. The Methodist Student Loan Fund. A limited number of worthy students who are members of the Methodist Church may secure loans from the Student Loan Fund administered by the Board of Education of that Church. Christian character, 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.

2. The National Alumnae Association Loan Fund. Only women students are eligible for these loans and senior women are given preference by the Committee on awards. Details and blanks may be secured from the Dean of Women.

3. Benefactor's Loan Fund ($1500). This is a perpetual revolving fund, small loans from which are available to Ohio Northern University students adjudged by the University Administration to be both worthy and needy.

SELF HELP

It is strongly recommended that every student entering the University should arrange to finance at least one quarter's expenses before entering. Thus, the student may finance himself until he may get in touch with the employers of Ada and so provide ample time to begin his academic or professional work. For information concerning scholarships, loans, employment, etc. make application at the offices of the Dean of Men or the Dean of Women.
GENERAL ACADEMIC PROCEDURES

PRE-REGISTRATION AND REGISTRATION

Pre-registration and registration days are indicated in the calendar. Pre-registration is devoted to conferences with advisers and making the student’s schedule of classes for the following quarter. Registration day is given over to the payment of tuition. Failure to attend to these duties on the proper day will subject the student to an extra fee of $3.00 for late registration. This does not apply to new registrants. Students who register after registration day may find it necessary to reduce the number of credit hours. Reduction in credit hours will be made in proportion to the time lost.

STUDENT COUNSELING

In addition to counsel from the Committee on Admissions, each student upon admission to the University is assigned to a faculty adviser. The duty of this adviser is to help 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 the student has selected the department in which he desires to major, the professor in charge of that department becomes his adviser.

Intelligence tests, placement and vocational tests and physical examinations are used as part of the advisory program. It is expected, however, that the student show some initiative in working out his own program.

The Dean of Men and Dean of Women offer counseling in the personal and social problems of the student.

GRADE MARKS AND QUALITY POINTS

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

The following grade and points system is in effect: Grade A, Excellent, 3 points; B, Good, 2 points; C, Average, 1 point; D, Passing, 0 points; F, Failure, 0 points; I, Incomplete; X, absent from examination; WP, withdrew passing if withdrawal is after the middle of a quarter or a summer term; WF, withdrew failing if withdrawal is after the middle of a quarter or a summer term.
ELIGIBILITY

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

To be eligible for the office of president or vice president of the Sophomore, Junior or Senior class, editor or business manager of the Northern Review, editor or business manager of the Northern yearbook, president of the S.C.A., or to participate in intercollegiate athletics and in dramatics, the candidate must have a scholarship rating of at least one quality point per hour.

SCHOLARSHIP AND CONDUCT

Students of the University are expected to possess qualities of character and to maintain certain levels of scholarship. The rules and regulations of the University pertaining to conduct and scholarship are enforced. Students may be dismissed for moral delinquencies and for continued low scholarship. Students who obviously are at variance with the spirit and ideals of the institution may be dismissed for the good of the University, even though no specific offense be charged against them.

The use of alcoholic beverages among students of the University is not permitted, and will be sufficient cause for dismissal from the University.

It should be the aim of each student to maintain a scholarship rating equivalent to at least one quality point for each credit hour for which he is registered. This is the minimum graduation standard throughout the University.

The average scholarship rating in terms of quality points is found by dividing the total number of scheduled hours for which the student has registered into the total number of quality points earned. For example, 50 scheduled hours and 75 quality points indicate a scholarship rating of 1.5; 16 scheduled hours and 8 quality points indicate a scholarship rating of 0.5.

WITHDRAWING FROM 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 or the student's adviser. Withdrawal from a course without proper procedure shall be checked as a failure in the course. A charge of $1.00 is made for each withdrawal or addition of a course after the first week.
Any student wishing to withdraw from the College in which he is registered must notify the Dean of his intentions. Failure to do this will jeopardize the standing of the student.

Any student withdrawing from the University must secure the signature of both the Dean of the University and the Dean of the college in which he is registered.

GENERAL ACADEMIC REGULATIONS

1. Mid-term examinations are held at the discretion of the instructor. Final examinations are held at the close of each quarter.

2. All students must be present at final examinations. Absence from any final examination, unless caused by sickness or other unavoidable conditions, will result in failure in the course.

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

4. "X" grades must be removed within the first eight weeks of the next quarter in attendance to obtain credit without repeating the work in class.

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

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

7. Each student must carry at least twelve credit hours per quarter to establish one quarter of residence work.

8. It is expected that each student will assume responsibility for meeting any requirements in this catalog which may apply to him.

AWARDING OF DEGREES

The work of the University is entirely undergraduate.

In order to graduate in any curriculum the student must have one quality point per scheduled hour.
No student who has not been in residence for at least three quarters may be a candidate for a degree.

Final credits offered toward graduation must be earned in residence, except for students completing arts-professional combination curricula.

Application for senior rating and graduation must be made to the Registrar at the end of the junior year.

The appropriate bachelor's degree is given upon the completion of curricula as outlined in the four colleges of the University.

A diploma is given in the three-year curriculum in education.

As a condition for graduation, the University insists upon a satisfactory use of English.

Degrees are conferred at the Commencement exercises which are held at the close of the Spring Quarter. Seniors 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 School are entitled to the privileges of the senior class, but their diplomas are not issued until the requirements for graduation are fully met.

**GRADUATION WITH HONORS**

Two classes of senior honors are recognized and conferred at graduation: honors with distinction granted to those who have a quality point average of 2.3 with no grade below D; and honors with high distinction granted to those who have a quality point average of 2.6 with no grade below C. These honors in scholarship are recorded on the diplomas, recognition is given at commencement, and the name of the recipients are printed in the catalogue. To receive senior honors a student must be in residence at Ohio Northern at least six quarters.
ADMISSION TO THE UNIVERSITY

Application for admission should be made on the blank which will be found in this bulletin. This should be made out in full and mailed to the Director of Admissions.

Men and women who furnish satisfactory evidence as to character, personality, health, interest, social adjustments, intelligence, and scholastic preparation are eligible to apply for admission to the University. Grades, rank in class, and scores made on intelligence and aptitude tests are considered in judging the qualifications of a candidate. The University reserves the right to administer additional tests. Special requirements for admission to certain curricula are as follows:

Business Administration, Pre-Law, Pre-Forestry, Pre-Medical, Pre-Dental, Entomology, and the College of Pharmacy: Three units of English, algebra, and plane geometry, three other academic units, and seven elective units. Chemistry, Physics and all Engineering curricula: Three units of English, one of physics, elementary and advanced algebra, plane and solid geometry, six units elective, and two units chosen from: chemistry, biology, language, history. College of Law: Graduation from high school plus two full years of college credit (60 semester hours or 90 quarter hours exclusive of physical education, military science, and courses without definite intellectual content) earned in an approved college of liberal arts. The scholarship average of the applicant must not be below the graduating average of the institution from which he comes. Transcripts of pre-law work in duplicate should be in the office of the Registrar at least ten days before the beginning of the quarter in which entrance is desired.

In addition to other credentials required for admission to the College of Pharmacy applicants must present certificates of preliminary education secured from the Ohio Board of Pharmacy. Applications for this purpose may be obtained from the Registrar of the University.

Transcripts from high schools and other colleges should be mailed directly from those institutions to the Director of Admissions. These should be in the Office of Admissions at least ten days before the opening of the quarter.

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 subject in which they are interested. If such "special students" desire to become candidates for a degree, they must qualify before entering upon the second year of residence.

Students asking admission with advanced standing are requested to have official transcripts sent directly to the Director of Admissions of Ohio Northern University by the registrar of the college previously
attended. Work from other schools is evaluated by the Committee on Admissions. Students transferring from other colleges will not be granted admission in the absence of transcripts or certificates of honorable dismissal.

ADMISSION OF VETERANS

Ohio Northern University has been approved by the U. S. Veterans Administration as an institution for training under Public Law 16 (Vocational Rehabilitation) and Public Law 346 (GI Bill of Rights). Admission requirements are essentially the same as those of other students. Evaluation of military experience is based upon "the Guide" published by the American Council of Education. The Certificate of Eligibility for training issued by the Veterans Administration must be presented at the time of registration.

Every effort is made to assist the veterans in their educational objectives. Admission officers welcome veterans to the campus for personal interviews prior to registration.

FRESHMAN DAYS

To help new students to become acquainted with the University, the faculty and each other, the first week of the autumn quarter is designated as Freshman Week. All new students are expected to report for the opening convocation. A Student Handbook, giving a detailed program for Freshman Week, is mailed to the new student about August 1st.
IMPORTANT REGULATIONS

HOUSING FOR WOMEN

All non-resident freshman women are required to live in the Terrace or in one of the other approved residences for first-year women. (This regulation does not apply to a woman who is commuting or to one who is doing work in exchange for her room). A list of other approved residences will be furnished upon application to the Office of the Dean of Women. No agreement between student and housemother is recognized by the University until arrangements have been approved by the Dean of Women.

Beginning with the autumn quarter of 1950 a new residence dormitory has been opened. This is for upper-class women. At the present time this dormitory will house thirty women. By the fall of 1951, a second story to this dormitory will be completed and the University will be able to house sixty additional women students.

The University operates a dining room in the Terrace. This is open to both women and men students. Arrangements are being made for dining room facilities in the new dormitory also.

HOUSING FOR MEN AND MARRIED COUPLES

Eight of the fraternities at Ohio Northern University have rooming facilities and serve meals to their members. Most of the men students readily find rooms in private homes near the campus. Men students may eat at the Terrace or at one of several restaurants near the University.

In addition to the University operated trailer camps, there is a considerable number of apartments available in the local community.

The Dean of Men offers a directory service for the trailer camps, apartments, and approved rooms in private homes.

CHAPEL, ASSEMBLY AND CLASS ATTENDANCE

The Tuesday convocation is in the form of a chapel of religious nature, deliberately planned, broad enough to include the students of all religious faiths in the university. The Thursday convocation is in the form of a student assembly, deliberately planned for the purpose of fostering a fine spirit across the entire membership of the student body. Both these convocations are under the direction of a faculty committee on which there is adequate representation from the student body. Attendance at both these convocations each week is a regular university requirement.

After careful consideration by the administration, by the faculty, by the Academic Council and other interested groups, the following arrangements have been adopted relative to cuts in classes in the university:
1. A deduction of ½ quality point per unexcused class cut will continue in effect. However, provision is now made for a Dean’s List for students above the freshman year; that is, sophomores, juniors and seniors who make an average of 2.3, after absences have been deducted, are exempt from the current rule for the following quarters. No unexcused cuts are allowed for freshmen in the University. Other students will be allowed one unexcused cut for each credit hour, except for those students who are on probation in the University. “Probation”, in this case, refers to an average below 1.0.

2. With the exceptions herein below indicated, all registered students of the University shall be required to attend chapel and student assembly each week, with two unexcused absences allowed during each quarter from each of the above-mentioned. For all holders of bachelor’s degree who have had one full year of residence at Ohio Northern University, attendance at chapel and assembly shall be optional. Any excess absences from chapel or student assembly will result in the loss of credit at the rate of one-fifth hour per cut.

3. It is understood that the President of the University, at his discretion, may indicate any of the regular assembly periods as all-student assemblies for purposes of information and consultation with the student body and that at those assemblies every student of the University will be expected to be present.

4. It is hoped that all students of Ohio Northern University, because of their interest in the University as such, irrespective of classification, will make it a practice to be present at regular sessions of their classes and all chapel and student assembly programs during their stay at Ohio Northern, thus adding their bit to a proper spirit and tone on the campus.

5. Any student who has been a regular student for four consecutive years at Ohio Northern University and whose record of chapel and assembly attendance does not flagrantly disregard the attendance requirement at such meetings will not be required to attend the chapel and assembly.

6. Absences the day before or the day after a regular college holiday or recess will involve the deduction of one quality point for each absence.

The student is responsible to his instructors for all work missed on account of absence. Instructors should make regular reports of all absences to the Dean of Men or the Dean of Women. Requests for excuses must be presented to the Dean of Men or the Dean of Women within 24 hours after class or laboratory work has been resumed. All excuses for absence due to illness must be obtained from the University physician. Instructors are not authorized to grant excuses for absences from their classes.
SUMMARY OF QUARTERLY TUITION AND FEES

GENERAL FEES EFFECTIVE SEPTEMBER 1, 1951

All college fees for the quarter are due and payable on the day of registration. Arrangements other than to pay fees at the beginning of each quarter should be made in advance with the Treasurer. Tuition and General Fee in Liberal Arts, Engineering, Law and

Pharmacy (11-18 hours) (§30.00 of this is tuition; §55.00 is the general fee) ........................................... 85.00

Tuition for each credit hour below the minimum of 11 hours or above the maximum of 18 hours .................................. 7.00

Auditing (Per 3 credit hours) .......................................... 5.00

Schedule change after first week of quarter .................................. 1.00

Graduation fee .......................................................... 12.00

Late Registration ......................................................... 3.00

Late Pre-Registration ................................................... 2.00

Practice Teaching (6 credit hours) ..................................... 25.00

Special Examinations (3 credit hours) ................................. 5.00

Gymnasium fee .......................................................... 2.00

Student Activity Fee (per quarter) ..................................... 5.00

Matriculation Fee (to be paid only once at student’s entrance) .... 5.00

Library Fee (per quarter) ................................................ 2.00

Health Fee (per quarter) .................................................. 2.00

Extension Courses (per quarter hour) ..................................... 6.00

Note: Fees do not include breakage which will be charged on a cost basis.

Refunds when allowed shall be made as follows: during the first week, 75 per cent; between one and two weeks, 50 per cent; between two and three weeks, 25 per cent. No refunds after three weeks. Written notice of withdrawal must be sent to the Treasurer's Office after being approved by the Dean of the University.

An itemized schedule of course fees by departments may be found in the back of the catalogue.
ORGANIZATION OF OHIO NORTHERN UNIVERSITY
1950-51

OFFICERS OF THE BOARD OF TRUSTEES

John H. Clark, Chairman
Edward S. Matthias, Vice Chairman
Lester L. Roush, Secretary
Warner G. Peterson, Treasurer

COMMITTEES OF THE BOARD OF TRUSTEES

F. Bringle McIntosh, President of the University
Ex-Officio Member of All Committees

EXECUTIVE: John H. Clark, Chairman of the Board of Trustees; Edward S. Matthias, Vice Chairman of the Board of Trustees; F. Bringle, McIntosh, President of the University; Elected Members, Armstrong A. Stambaugh, John V. Melick.


PERSONAL: Howard W. Peterson, F. Bringle McIntosh, J. Otis Young, Mrs. Frank B. Willis, Charles B. Hoffman.


BOARD OF TRUSTEES

F. BRINGLE McINTOSH, President of the University
Ex-Officio Member of the Board of Trustees

ELECTED BY THE OHIO CONFERENCE

Initus 1946 John V. Melick, Vice President, Dana Corporation—Toledo 1951
1941 D. Finley Wood, Minister---------------------Worthington 1951
1947  Lester L. Roush, Minister........................................Columbus 1952
1947  J. Otis Young, Minister........................................Cincinnati 1952
1947  George W. Herd, Minister......................................Lancaster 1953
1948  Robert F. Jones, Member Federal Communications Com-

mission.................................................................Washington, D. C. 1953
1947  Warren W. Wiant, Minister.................................Toledo 1954
1949  Charles B. Hoffman, Masonic Executive...............Dayton 1954
1947  J. Boyd Davis, Insurance.....................................Columbus 1955
1939  Edward S. Matthias, Judge Supreme Court of Ohio

Columbus 1955

ELECTED BY THE NORTH EAST OHIO CONFERENCE

1950  Arthur Hooper, Judge of Common Pleas.............Steubenville 1951
1946  S. Lee Whiteman, Jr., Minister.........................Youngstown 1954
1938  Howard W. Peterson, Minister............................Cambridge 1955

ELECTED BY THE ALUMNI

1946  Leslie A. Peck...........................................Cadillac, Michigan 1951
1943  Armstrong A. Stambaugh, Vice President, Standard Oil

Company ...............................................................Cleveland 1952
1948  Richard P. Overmyer, Cleveland Welfare Association

Cleveland 1953
1949  Arthur F. Plant, President, The Austin Company...Detroit 1954
1950  Jesse R. Long, Director Public Relations, University of

Toledo ...........................................................................Toledo 1955

AT LARGE, ELECTED BY THE TRUSTEES

1935  Benjamin F. Fairless, President, U. S. Steel Corporation

.................................................................Pittsburgh 1951
1905  John H. Clark, Attorney......................................Marion 1951
1945  Mrs. Frank B. Willis, Widow of Senator Willis......Delaware 1951
1949  Hazen G. Werner, Bishop of the Ohio Area, Methodist

Church .................................................................Columbus 1951
1934  Ben R. Conner, Banker........................................Ada 1955
1934  James J. Pilliod, Executive, American Telephone and Tele-

graph .................................................................New York City 1955
TRUSTEES EMERITUS

1922 Eli L. Motter, Minister........................................Columbus
1924 Benjamin F. Reading, Minister.................................Toledo
1945 H. Lester Smith, Retired Bishop, Ohio Conference............Columbus
1945 Robert I. Ingalls, President, Ingalls Iron Works Company..................................................Birmingham, Ala.

COMMITTEES OF THE FACULTY


ATHLETICS: Hoekje, Hickman, Huber, and three persons selected by Student Council.

CATALOG: Otte, Huber, Pettit, Webb, Smith.

CHAPEL: Tinsler, Roider, Mrs. Hanson, Lamale, Berger, Hickman, one student selected by S.C.A., and one student selected by Student Council.

COMMENCEMENT: Otte, Binkley, Mr. Hanson, Raabe, Kelly, Woofter.

CURRICULUM: McIntosh, Otte, Huber, Pettit, Webb, Smith, Hanson, Hilliard, Markle, Sheldon, Clark.

GRADUATE INTERESTS: Otte, Binkley, Vannorsdall, Woofter, Huber.

HEALTH CENTER: Smith, Lamb, Otte, Webb.

HOMECOMING OCCASIONS: Hickman, Wintringham, Guild, Rutter, Mrs. Webb, Peterson, Roider, Hilliard, President of Interfraternity Council, President of Pan-Hellenic Council, three members selected by Student Council.

HOUSING: Otte, Mrs. Webb, Peterson.

LIBRARY: Huber, Smith, Markle, Binkley, Sheldon, Bamberger, Wheelock (ex-Officio)

LOAN AND SCHOLARSHIP: Otte, Mrs. Webb, Peterson, Woofter.

PLACEMENT: Vannorsdall, Woofter, Huber, Pettit.


RADIO: Ranney, Hoekje, Roider, Kelly, Hilliard, Wintringham, Guild, Bamberger.
STUDENT ASSEMBLY: Ranney, Hilliard, Mr. Hanson, Markle, President of Student Council, President of Interfraternity Council, President of Pan-Hellenic Council.

STUDENT PUBLICATIONS: Guild, Link, Freeman, Immel, and three persons named by Student Council.


SUMMER SCHOOL: Vannorsdall, Berger, Freeman, Huber.

ADMINISTRATIVE OFFICERS AND FACULTY

MCINTOSH, FRANK BRINGLE, A.B., S.T.B., D.D., 1949
President, Merry Monte Farm
A.B., DePauw University; S.T.B., Boston University; D.D., DePauw University.

BALE, EVELYN EDWARDS, A.B., 1949
Director of Admissions, 413 North Gilbert Street
A.B., Otterbein College; Graduate Study, Ohio State University; Secretarial Course, Bliss College.

GUILD, GERALD A., B.S., 1950
Assistant Director of Public Relations and Instructor in Journalism, 308 South Gilbert Street
B.S., Boston University; graduate study, Keene Teachers College.

HUBER, HARVEY EVERT, M.A., 1913
Dean of George Franklin and Sarah Catherine Getty College of Liberal Arts and Professor of Biology, 722 Union Street
B.A., Ohio Northern University; M.A., Yale University; Yale University, two years; University of Wisconsin, one summer.

OTTE, LOUIS E., A.B., Ph.D., 1948
Dean of the University, Dean of Men, 407 South Ream Street
A.B., Ohio Wesleyan University; Harvard University; Ph.D., Ohio State University.

PETTERSON, WARNER G., B.A., 1949
Treasurer and Business Manager, 310 Ream Street
B.A., Allegheny College; Ohio State University Graduate School, one year; U.S. Army, Economic Section-Allied Commission, Chief Italian Supply Operations UNRRA, and Chief, Department of Administration, United Nations I.R.O. (1941-1948)
Pettit, Claude Wescoat, B.A., LL.B., LL.M., 1925
Dean of the College of Law and Professor of Law, 307 Union Street
B.A., Ohio State University; LL.B., Western Reserve University;
LL.M., George Washington University; Old Trinity, Dublin, Ireland,
one quarter.

Raabe, Rudolph Henry, Phar.D., 1910
Dean Emeritus, College of Pharmacy, and Professor of Pharma-
cology, 316 South Gilbert Street.
B.S., Ph.G., Ph.C., Ohio Northern University; Phar.D., University
of Havana.

Smith, Albert Charles, B.S. in Phar., M.S., Ph.D., 1944
Acting Dean of the College of Pharmacy and Professor of Pharma-
ceutical Chemistry, 417 North Gilbert Street
B.S., in Phar., Ohio State University; M.S., Ph.D., Purdue Univer-
sity.

Smull, Thomas Jefferson, C.E., M.E., Eng.D.
Dean Emeritus, College of Engineering, 301 South Main Street
C.E., M.E., Ohio Northern University; Graduate Study, Lafayette
College, one semester; University of Michigan, one semester; Eng.
D., Oglethorpe University.

Webb, Alexander Raffen, M.S.E., C.E., 1924
Dean of the College of Engineering and Professor of Civil Engine-
ering, 316 South Johnson Street
B.S. in C.E., Armour Institute of Technology; M.S.E., University of
Michigan; C.E., Armour Institute of Technology.

Webb, Alice Ensign, 1924-30; 1946
Dean of Women, 316 South Johnson Street
Art Institute, Chicago; Chicago School of Fine Arts; Highland
Park College, Iowa; Iowa State College, Iowa.

WheeloK, Genevieve, B.A., B.S. in L.S., 1949
Librarian, 228 West University Avenue
B.A., Ohio Wesleyan; B.S. in L.S., Western Reserve University.

Wintringham, C. E., A.B., S.T.B., 1949
Director of Public and Alumni Relations, 906 South Main Street
A.B., Ohio Northern University; S.T.B., Boston University.

Woofter, James Andrew, Ed.D., 1947
Registrar, 412 Union Street
B.A., Salem College; M.A., University of Virginia; Ed.D., Univer-
sity of Cincinnati.
Instructor in Mathematics, 402 South Johnson Street
B.S. in C.E., Ohio Northern University; B.S. in Ed., Ohio Northern
University; M.A., Bowling Green State University.

BAILE, WILLIAM G., B.S. in Ed., 1949
Instructor in Theater Arts, 413 North Gilbert Street
B.S. in Ed., Otterbein College; Graduate Study, Bowling Green
State University.

BAMBERGER, FRED HANS, A.B., LL.B., LL.M., J.U.D., 1948
Professor of Modern Languages, 125 East Lehr Avenue
A.B., LL.B., LL.M., Universities of Heidelberg and Munich, Germ-
any; J.U.D., University of Heidelberg, Germany; New York State
Teaching License; State Teachers College, Albany, N.Y.; Buffalo
University; Engineering School, Paris, France; Middlebury College,
Spanish House.

BERGER, FRANK LEWIS, M.S., 1911
Professor of Physics, 121 East Lehr Avenue
B.A., Ohio Northern University; B.S., University of Chicago; M.S.,
Ohio State University.

BINKLEY, WILFRED ELLSWORTH, Ph.D., 1920
Professor of History and Political Science, 803 Union Street
B.S., Ohio Northern University; B.A., Antioch College; M.A., Ph.D.,
Ohio State University.

Instructor in Chemistry, Lafayette, Ohio
B.S. in Chem., Bowling Green State University; B.S. in Ed., Ohio
Northern University; Graduate Study, Ohio State University.

CLARK, FRED R., A.B., M.S., 1950
Professor of Pharmacognosy, 421 ½ South Main Street
A.B., University of Michigan; M.S. (Botany) University of Michi-
gan; one year graduate study, University of Toronto.

ENGLISH, MARVIN, B.S., M.A., 1949
Baseball and Basketball Coach, Instructor in Health and Physical
Education, 229 East Montford Avenue
B.S., Ohio Northern University; M.A., Columbia University.

EFFLEY, DONALD F., B.S. in Ed., 1950
Instructor in Mathematics, No. 17 Presser Camp
B.S. in Ed., Ohio Northern University.
FREEMAN, CHILDE HAROLD, B.S., Litt. D., 1909
Professor of English Literature, 317 West University Avenue
B.S., Ohio Normal University; Litt.D., Taylor University; University of Chicago, one summer.

HANNA, MYRON, M.D., B.A. in Phar., 1946
Instructor in Pharmacy, Findlay, Ohio
B.S. in Phar., Ohio Northern University; M.D., Eclectic Medical College, Cincinnati.

HANSON, EUGENE N., B.A., M.A., LL.B., LL.M., 1947
Associate Professor of Law, 510 1/2 South Main Street
B.A., Luther College; M.A., University of Wisconsin; LL.B., University of Wisconsin; LL.M., University of Michigan.

Assistant Professor of Education, 510 1/2 South Main Street
A.B. in Ed., University of South Carolina; M.A. in Ed., University of South Carolina; Peabody College; George Washington University; Columbia University; Union Theological Seminary; Doctorate in Ed., Columbia University.

HARP, HUGH G., B.S., M.S., 1950
Associate Professor of Mathematics, 620 Union Street
B.S., University of Chicago; M.S., University of Chicago; Graduate Study, Ohio State University, University of Michigan.

Assistant Professor of Political Science, Rear 125 South Main Street
B.A. in International Relations, Colgate University; M.A., Columbia University; P.S.D., University of Geneva, Switzerland.

HILL, GEORGE ALAN, B.S., 1950
Assistant Instructor in Zoology, 723 Union Street
B.S., Kent State University.

HILLIARD, ROBERT HOMER, M.A., Ph.D., 1946
Professor of History, 327 West University Avenue
B.A., B.Sci. in Ed., M.A., Ph.D., all Ohio State University.

HOEKJE, HOWARD H., A.B., Ph.D., 1949
Professor of Chemistry, Route 1, Ada, Ohio
A.B., Hope College; Ph.D., Rutgers University.

IMMEL, VINCENT C., B.S. in Ed., J.D., 1948
Instructor in Law, 302 South Main Street
B.S. in Ed., Bowling Green State University; J.D., University of Michigan.
JACKSON, WALTER SCOTT, B.A., LL.B.
Lecturer in Bankruptcy and Appellate Procedure, Lima, Ohio
B.A., Kenyon College; LL.B., Western Reserve University; Doctor of Laws, Ohio Northern University.

JONES, WALTER, B.M., M.M., 1949
Instructor in Music, 417 South Gilbert Street
B.M., M.M., Eastman School of Music of the University of Rochester.

JONGEWARD, MATTYS, B.S., Ph.G., M.S., 1950
Associate Professor of Pharmacy, 431 North Gilbert Street

KELLY, FRANCIS J., JR., B.S.E.E., 1949
Instructor in Electrical Engineering, 511 South Gilbert Street
B.S.E.E., Ohio Northern University.

KITTLE, DEAN FALLS, B.S., M.S., 1946
Professor of Industrial Arts, 310 West Main, Cairo, Ohio
B.S. in Ed., Ohio University; M.S., Iowa State College; Oregon State College, summer; Bradley Polytechnic Institute, summer.

KLINGENBERGER, JAMES L., B.S.E.E., 1949
Instructor in Electrical Engineering, 212 West Buckeye Avenue
B.S.E.E., Ohio Northern University.

LAMALE, WILLIAM PETER, M.A., 1916-19; 1923
Professor of Piano and Organ, 219 East University Avenue
Mus. B., Oberlin College Conservatory; Student with Tobias Mathay and Matilda Verne, London, one year; student, piano, Ernest Hutchison, Lake Chautauqua, one summer; piano student with Edwin Hughes, New York, two summers; student in piano with Scionti, American Conservatory, Chicago, one summer; M.A., Ohio State University.

LAMB, CLYDE ALBERT, M.A., 1929
Director of Department of Health and Physical Education and Professor of Health and Physical Education, 300 Union Street
B.S., Coe College; M.A., Columbia University; Columbia University, two summers.

LINK, MARY DOROTHY, A.B., M.A., 1950
Instructor in English, 259 West Montford Avenue
A.B., Wittenberg College; M.A., Columbia University.

MARKLE, DAVID H., A.B., B.D., A.M., Ph.D., 1949
Assistant Professor of Sociology and Psychology, 244 Turner Avenue
A.B., Ohio Wesleyan University; B.D., A.M., Ph.D., Yale University.
McKIRTRICK, MAX O., B.S. in Ed., M.A., 1949
Instructor in Business Education, 417 South Gilbert Street
B.S. in Ed., Wittenberg College; M.A., Ohio State University.

OWEN, GERALDINE LYON, A.B., M.A., 1947
Assistant Professor of English, 607 South Johnson Street
A.B., Lynchburg College; M.A., University of Kentucky; University
of Virginia, University of Illinois, summer school.

PICKERING, MOZELLE, B.S., 1950
Instructor in Health and Physical Education, 221 East Lincoln
B.S. in Physical Training, Ohio Northern University; University of
Wisconsin; University of Pennsylvania.

RANNEY, J. BUCKMINSTER, A.B., M.A., 1948
Assistant Professor of Speech, 509 South Gilbert Street
A.B., New York University; M.A., New York University.

RITZ, HARRIETTE SMITH, B.S., M.S., 1947
Professor of Business Administration, 413 South Gilbert Street
B.S., Indiana University; M.S., Indiana University; all class work
completed for Ph.D. degree, Indiana University.

ROIDER, KARL ANDREW, B.Mus., M.Mus., 1945
Professor of Music, 325 West University Avenue
B.Mus., Eastman School of Music; M.Mus., University of Rochester.

ROSS, LOUIS LEO, A.B., M.A., 1949
Instructor in Mathematics, 542½ North Main Street
A.B., Bowling Green State University; M.A., Ohio State University.

SCHLOSSER, THEODORE, B.S., Ph.C., M.S., 1950
Assistant Professor of Pharmacy, 424½ South Main Street
B.S., Ph.C., M.S., Washington State College.

SHELDON, ROBERT C., B.S. of C.E., C.E., 1949
Associate Professor of Civil Engineering, 434 North Gilbert Street
B.S. of C.E., Ohio Northern University; C.E., Ohio Northern Uni-
versity.

SLOAN, JAMES L., A.B., LL.B., 1950
Instructor in Law, 202 East Highland
A.B., Subiaco College; LL.B., University of Arkansas.

STATON, HELEN L. H., B.A., B.Sc. in Ed., B.Sc. in Home Econ., 1950
Instructor in Orientation, 2000 West Spring St., Lima, Ohio
B.A., B.Sc. in Ed., B.Sc. in Home Econ., Ohio State University;
Graduate Study in Social Sciences and Home Economics; Ohio State University.

**Tinsler, Marion Elmer, A.B., B.D., 1943**
Associate Professor of Religion, 747 North Main Street
A.B., Bluffton College; B.D., Garret Biblical Institute.

**Vannorsdall, Harry Hull, B.S. in Ed., A.M., Ph.D., 1945**
Director of Division of Teacher Training and Professor of Education
B.S. in Ed., Ohio Northern University; A.M., Ohio State University; Ph.D., Ohio State University.

**Weishampel, John Addison, B.S., M.E., 1946**
Professor of Mechanical Engineering, 418 Union Street
B.S., U.S. Military Academy, West Point; M.E., New York University.

**Whartman, I. T., B.S., M.S., 1950**
Supervisor of Student Teaching, 218 East Lincoln
B.S., Ohio University; M.S., Ohio State University.

**Yingling, Hal C., Jr., A.B., M.S., 1949**
Assistant Professor of Biology, 202 West Highland Avenue
A.B., Augustana College; M.S., Northwestern University.

**Younkman, Hazel M., B.S. in Ed., M.A., 1918.**
Instructor in Public School Art, 625 Union Street
B.S. in Ed., Ohio Northern University; M.A., Ohio State University; Student in the Art Institute, Chicago, The Art Academy, Chicago, and the Prang School, Chicago.

**ADMINISTRATIVE PERSONNEL**

**Curtis, Franklin A., B.S., 1949** *
Chief Accountant, 315 Union Street
B.S., Bowling Green State University.

**Lamon, J. Howard, 1951** **
Chief Accountant, 2333 Wales Avenue, Lima, Ohio
Ohio University, two years.

**Rutter, Ilo, 1939**
Secretary in Alumni Office, 118 West Montford Avenue
Graduate in Stenography, Ohio Northern University; Actual Business College, Akron, Ohio, one year.

*Resigned January, 1951.
**Assumed position of Chief Accountant January, 1951.
TEACHER OF ELEMENTARY PIANO PUPILS

IRICK, ELLA
Instructor in Junior Music Department, 521 South Gilbert Street
Music Student in Ohio Northern University; Lake Chautauqua, four
summers; Normal training with Miss Woods and Miss Robyn;
Course in Dunning System with Miss Eddy; one summer, American
Conservatory, Chicago.

SECRETARIAL STAFF

ABBOTT, ARLENE, B.S.
Secretary to the Dean of Pharmacy, 580 East Lincoln Avenue
B.S., Ohio State University.

BAKER, DOROTHY *
Veterans Coordinator, No. 28 Taft Camp
Miami University.

GUILD, NANCY
Veterans Coordinator, 308 South Gilbert Street
Northfield Seminary, Keene Teachers College.

KENNEDY, BETTIE L. **
Secretary to Director of Teacher Training and Dean of Women,
No. 33 Taft Camp
Youngstown College.

MARKLE, MARY C., B.A.
Secretary in Public Relations, 244 Turner Avenue
B.A., Ohio Wesleyan University.

MILLER, MARTHA WHITE
Secretary in the President’s Office, 125½ South Main Street
Graduate, Marion Business College.

NOBLET, SYLVIA POAST, A.B.
Secretary to Dean of Engineering College, No. 28 Presser Camp
A.B., Muskingum College.

PATZ, ERITH ***
Secretary to the Dean of Pharmacy, No. 30 Taft Camp

REDDEN, EULA D.
Secretary to the Dean of the University, No. 2 Presser Camp
Virginia Intermont College.

*Resigned, January, 1951.
**Resigned, December, 1951.
***Resigned, January, 1951.
RHoades, Mary Lou
Assistant in Treasurer's Office, No. 8 Presser Camp

Seitz, Anna Frances
Assistant in the Registrar's Office, 245 West Buckeye Avenue
Ohio Northern University; Office Training School.

Stakely, Laverne
Secretary to Dean of the Law College, 603 South Main Street
Ohio Northern University

Swallow, Tama J.
Secretary to the Registrar, 111 East Lehr Avenue

Ullman, Mary Helen
Secretary to Director of Teacher Training and Dean of Women,
214 West Buckeye

Vincent, Miriam L.
Secretary to Treasurer-Business Manager, 417 South Gilbert Street
Office Training School.

Library Assistants

McKithrick, Nellie B., A.B.
A.B., Taylor University; Ball State Teachers College, 417 South
Gilbert Street

Roeder, Catherine L., B.A.
B.A., University of Rochester, College for Women; graduate work,
University of Rochester, 325 West University Avenue

Wood, Marjorie P.
111½ South Main Street
THE GEORGE FRANKLIN
AND SARAH CATHERINE GETTY

COLLEGE OF LIBERAL ARTS

Harvey Evert Huber
Dean

ADMISSION

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. Blanks for this purpose may be had by addressing the Director of Admissions. 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. The quality of the high school record is an important index of probable success in doing college work.

An applicant from another college seeking advanced standing must present evidence of honorable dismissal and an official transcript of his college record.

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.

DIVISIONS AND DEPARTMENTS

For purposes of administration and integration the departments of the college are organized into five divisions. The chairmen of the divisions and the Dean constitute the curriculum committee of the College of Liberal Arts.

DIVISION I—Language, Literature and Arts.
(a) English Language and Literature
(b) Foreign Language and Literature.
(c) Music
(d) Speech and Theater Arts
DIVISION II—Natural Sciences.
    (a) Biology
    (b) Chemistry
    (c) Mathematics
    (d) Physics

DIVISION III—Social Sciences.
    (a) Economics and Business Administration; Secretarial
    (b) History and Political Science
    (c) Psychology and Sociology
    (d) Religion and Philosophy

DIVISION IV—Physical Education and Applied Arts.
    (a) Health and Physical Education
    (b) Home Economics
    (c) Industrial Arts

DIVISION V—Teacher Education.
    (a) Elementary Education, including Public School Art
    (b) Secondary Education
    (c) Business Education
    (d) Health and Physical Education
    (e) Industrial Arts Education
    (f) Public School Music

Under each division heading which appears later in the Liberal Arts section of this bulletin dealing with description of courses is found a general statement which is of great importance to the student. This statement calls attention to the courses that should be selected as a background preparation for advanced and intensive work in that particular division. Likewise, under the appropriate departmental heading there is a more detailed statement referring to the various courses that should be elected (some of them during freshman and sophomore years) to prepare the student for work in that department.

COURSE OF STUDY

From the numerous offerings of courses, for example, mathematics, natural sciences, health and physical education, accounting, economics, secretarial studies, business administration, education, history and government, speech, modern foreign languages, English, music, shop and drawing, students may select special groups of studies of curricula which meet their needs, interests and abilities.

Students should also keep in mind that their adjustments to the changing conditions in the present world situation will depend largely upon a broad general education with special emphasis on an understanding of the fundamental principles of government, sociology, economics, history, psychology, literature, science, philosophy and religion.
DIVISION ELECTIVES

Freshmen and sophomores planning to complete work leading to the degree of Bachelor of Arts are given some freedom in the choice of courses. It is possible for the student to select such subjects for study as will serve his best interests and capacities.

In order that the curriculum may be interesting, broad, and cultural, yet flexible enough to allow preparation for the various professions and needs of life, the student during his freshman and sophomore years in college is required to select two complete year courses in each of the first three divisions mentioned below, a total of six year courses. The remainder of the work in these two years is elective from any course open to a student of this rank. Ordinarily the first year schedule will include at least one course from each division plus one or more academic electives. Six hours of physical education are required from the fourth division.

These group selections are to be made as follows:

FROM DIVISION I—LANGUAGE, LITERATURE AND ARTS
Two complete years from English Composition, English Literature, or Speech. Nine hours of English Composition must be scheduled during the freshman year. The remaining nine hours may be elected from English Literature or Speech.

FROM DIVISION II—NATURAL SCIENCES
Two complete year courses must be selected from different fields, for example, Botany, Chemistry, Mathematics, Physics, or Zoology.

FROM DIVISION III—SOCIAL SCIENCES
Two complete year courses from the social sciences must be selected. Nine hours of Religion are required. Philosophy may be substituted for Religion, course for course. Religion can not be used toward satisfying the social science requirement. Philosophy which should be scheduled in junior or senior year may be so used unless it is taken to satisfy the Religion requirement.

FROM DIVISION IV—PHYSICAL EDUCATION AND APPLIED ARTS
Physical Education is required of students during the first six quarters in residence, with one hour of credit each quarter.

FROM DIVISION V—TEACHER EDUCATION
Students preparing to teach in the public schools are required to meet the professional requirements in Education as indicated under this division in a later section of this bulletin. Curricular requirements for the degree of Bachelor of Science in Education are described under Division of Teacher Education.
MAJOR AND MINOR

At the beginning of the third year the student is ready to choose, if he has not already done so, one division and the department or departments within this division in which he desires to complete his major or minor, or the field of concentration. For example, a prospective chemist would choose Division II—Natural Sciences, Department of Chemistry.

The candidate for a degree must complete in a logical sequence a major of not less than 36 quarter hours and a minor of not less than 24 quarter hours. The adviser will assist the student in planning the major and minor, or the field of concentration. Candidates for the degree of Bachelor of Arts who expect to teach in the public school must meet the requirements for one major and two minors as specified in the Division of Teacher Education.

More than one departmental major may be completed by the student in which case a minor is not required unless one major requires an additional minor.

ELECTIVES IN OTHER COLLEGES OF THE UNIVERSITY

In the College of Engineering, the College of Pharmacy, and the College of Law there are many courses described, a limited number of which may be elected by students registered in the College of Liberal Arts, thus enabling them more fully to prepare for specific vocational objectives. The student must have junior rank before electing courses in the College of Law.

GRADUATION

As a condition of graduation with the bachelor's degree, a student must complete 186 quarter hours (including six hours of physical education), this being the equivalent of fifteen or sixteen class exercises a week for twelve quarters. The student must have an average scholarship rating of at least one quality point for each scheduled hour, a C average.

A residence period of three quarters and the completion of 45 quarter hours, with at least 45 quality points, 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, upon petition and with the consent of the faculty of the College of Liberal Arts, complete their work in less than twelve quarters. Applicants for this privilege should have an average of 2.6 quality points per hour: high distinction rank. No student however shall be allowed to graduate unless he has at least eleven
quarters work and has been in residence at Ohio Northern University
the last three quarters before graduation.

*By continuing in residence during summers four years of college
work may be completed in three years.*

**CLASSIFICATION OF STUDENTS**

For purposes of classification the minimum requirements for sopho-
more standing are 38 credit hours and a point average of 0.5; for jun-
ior standing, 84 credit hours and a point average of 0.7; for senior
standing, 130 credit hours and a point average of 0.9.

**WARNING AND PROBATION**

It should be the aim of each student to maintain a scholarship rating
equivalent to at least one quality point for each credit hour for which
he is registered. This is the minimum graduation standard throughout
the University.

The average scholarship rating in terms of quality points is found
by dividing the total number of scheduled hours for which the student
has registered into the total number of quality points earned. For ex-
ample, 50 scheduled hours and 75 quality points indicate a scholarship
rating of 1.5; 16 scheduled hours and 8 quality points indicate a scholar-
ship rating of 0.5.

Freshmen making a scholarship rating of less than 0.5 quality point
per scheduled hour, sophomores and juniors making less than 0.7 quality
point per scheduled hour, and seniors making less than 1.0 quality point
per scheduled hour during the quarter are sent a notice of warning from
the office of the Dean. If the student should again fail to meet the stand-
ardis in the quarter for which he is warned, he is placed on probation for
the following quarter of residence, with the request that his scholarship
be brought up to at least one quality point average for each hour sched-
uled. Failure to meet this academic requirement may subject the stu-
dent to dismissal.

**GENERAL REGULATIONS**

1. The student may not register for more than sixteen or seventeen
hours of academic work unless he has received a rating of B or better in
the preceding quarter. If the previous record of the student shows that
he is able the Dean may grant extra hours.

2. Candidates for the degree of Bachelor of Arts or Bachelor of
Science in Education must complete a minimum of nine quarter hours of
work in Bible; Philosophy may be substituted. Courses in Religion 101,
104 and 105 plus 153 or 201 are recommended to meet this requirement.
3. The student must notify the Dean of his choice of a major before registering for the junior year. The Dean will then name an adviser for the student.

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

5. Seniors taking certain freshman courses are not given full credit. Seniors electing freshman courses should consult the Dean.

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

7. Not more than one-fourth of any curriculum leading to a degree or diploma shall be taken in extension classes.

8. Within certain limits credit may be obtained by passing proficiency examinations.

9. Application for senior rating and graduation must be made to the Registrar at the end of the junior year.

FRESHMAN YEAR

The Freshman frequently asks, What courses shall I take when I go to college? Obviously in the Liberal Arts college class schedules will vary because students have different interests and objectives. In general the student will schedule Physical Education, English Composition, a course in one of the social sciences, a course in one of the natural sciences or mathematics, and one or two electives selected from the field of major interest, for example, music, commerce, physical education, elementary education, languages, pre-professional subjects, or academic fields. In general the courses taken during freshman and sophomore years are designed to lay a broad foundation preparatory to work in a field of concentration or specialization. The objective at Ohio Northern is to build a curriculum to serve the best interests of the student.

COURSES OPEN TO FRESHMEN

| Bible 101, 104, 105 | Mathematics 100, 101, 103, 105 |
| Botany 107-109, 119 | Mathematics of Finance 121 |
| Business Organization 103-105 | Mechanical Drawing 111-113 |
| Chemistry 101a-103a or 101-103 | Music: Theoretical and Applied |
| English 101, 102, 102a | Physical Education 101-103; 156 |
| French 101-103 or 104a-106a | Physics 109-111 |
| General Biology 104-106 | Political Science 104-106 |
| German 101-103 or 104a-106a | Spanish 101-103 |
| Health Education 117 | Speech 101-103 |
| History 104-106 | Shorthand |
| History 110-112 | Theater Arts |
| Hygiene 115 | Typewriting |
| Industrial Arts 101 | Zoology 101-103 |
| Latin 101-103 or 104-106 |  |


**COMBINATION CURRICULA**

Combination curricula lead to the degree of Bachelor of Arts and to a professional degree, with a reduced period of time. They are designed for students who desire an academic background for their professional course.

**ARTS-ENGINEERING**

During the first three years the student is registered in the College of Liberal Arts and must secure a minimum of 145 quarter hours of credit. Upon the successful completion of 50 quarter hours in the College of Engineering during his fourth year, with a quality point average of one or better, the degree of Bachelor of Arts is granted. Upon fulfilling the requirements as specified in his selected engineering curriculum, the student will be awarded the appropriate degree in engineering.

Students entering with advanced credits 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 in this University.

Students entering the Arts-Engineering curriculum must conform to the rules and regulations of the College of Liberal Arts. By complying with these regulations it will be possible for the student to secure both the degree of Bachelor of Arts and the appropriate engineering degree in five years.

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<td>Sociology* 151 or Political Science 101</td>
<td>Sociology* 152 or Political Science 102</td>
<td>Sociology 153 or Political Science 103</td>
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<td>Bible 151</td>
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<tr>
<td>Surveying 221 or Calculus 216</td>
<td>Differential Equa. 212</td>
<td>Surveying 223 or Electrical Eng. 213</td>
</tr>
</tbody>
</table>

**FOURTH AND FIFTH YEARS**

Student is registered in College of Engineering.

*Year courses in Accounting, Psychology, or Business Law may be substituted for Sociology or Political Science.
ARTS-MEDICINE

At least three years of college work are required for admission to medical schools. However, with the number of applicants now greatly exceeding the number of students admitted to the study of medicine, the student should plan to complete four years of undergraduate work with a high scholastic average, earning the degree of Bachelor of Arts.

An Arts-Medicine curriculum is outlined for the superior student who upon completion of nine quarters of work and admission to medical school may be granted a leave of absence for the senior year and receive the degree of Bachelor of Arts upon the successful completion of the first year in the college of medicine.

At least 140 quarter hours exclusive of physical education, are required, which must include the required and group elective courses. A scholarship average of at least 1.5 quality points per hour is required for recommendation to a medical school. Medical schools require a B or better in the sciences. At least 90 quarter hours must be completed in this institution.

**First Year**

<table>
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<td>Biology 103 3</td>
</tr>
<tr>
<td>Social Science 2-3</td>
<td>Social Science 2-3</td>
<td>Social Science 2-3</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>Physical Education 104 1</td>
<td>Physical Education 105 1</td>
<td>Physical Education 106 1</td>
</tr>
<tr>
<td>Chemistry 104 5</td>
<td>Chemistry 105 5</td>
<td>Chemistry 106 5</td>
</tr>
<tr>
<td>Psychology 101 5</td>
<td>Psychology 102 5</td>
<td>Psychology 104 or 210 5</td>
</tr>
<tr>
<td>Physics 109 5</td>
<td>Physics 110 5</td>
<td>Physics 111 5</td>
</tr>
<tr>
<td>Elective 2</td>
<td>Elective 2</td>
<td>English 108 or 122a 3</td>
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</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
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<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
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</thead>
<tbody>
<tr>
<td>English 214 or 217 3</td>
<td>English 211 3</td>
<td>Ethics 208 5</td>
</tr>
<tr>
<td>Biology 206 5</td>
<td>Biology 213 5</td>
<td>Embryology 218 5</td>
</tr>
<tr>
<td>Chemistry 206 5</td>
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<td>Elective 6</td>
</tr>
<tr>
<td>Bible 151 3</td>
<td>Bible 152 3</td>
<td></td>
</tr>
</tbody>
</table>

It is highly desirable that a course in mathematics be scheduled in freshman or sophomore year since some medical schools require mathematics for admission.

**ARTS-DENTAL**

Upon 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 degree of Bachelor of Arts 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 requirements are much the same as for the Arts-Medicine curriculum.
ARTS-NURSING

For the student who is preparing to enter a school of nursing the following curriculum is suggested. Upon the completion of three years of work at Ohio Northern and graduation from an accredited school of nursing the University will award the bachelor's degree.

Graduate nurses who complete this curriculum will also be awarded the bachelor's degree. Some modification of the curriculum may be made to fit their interests and objectives.

Arrangements have been made for a combined curriculum in Liberal Arts and Nursing with Memorial Hospital, Lima, Ohio. Students who elect this combination curriculum will be expected to do better than average quality work while in college and to have those personal and social qualities which are so essential to success in the field of nursing. This curriculum should be of special interest to young women of northwestern Ohio.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
<td><strong>THIRD YEAR</strong></td>
</tr>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Biology 108</td>
<td>Biology 102</td>
<td>Biology 103</td>
</tr>
<tr>
<td>Political Science 104</td>
<td>Political Science 105</td>
<td>Hygiene 115</td>
</tr>
<tr>
<td>Chemistry 101</td>
<td>Chemistry 102</td>
<td>Chemistry 103</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>Biology 208</td>
<td>Biology 213</td>
<td>Biology 218</td>
</tr>
<tr>
<td>Chemistry 206</td>
<td>Chemistry 207</td>
<td>English (Elective)</td>
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<tr>
<td>Psychology 101</td>
<td>Psychology 102</td>
<td>Psychology 104 or 210</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Sociology 151</td>
<td>Sociology 153</td>
<td>Sociology 212 or 214</td>
</tr>
<tr>
<td>English 210</td>
<td>English 211</td>
<td>Biology 220</td>
</tr>
<tr>
<td>Bible 151</td>
<td>Bible 152</td>
<td>Ethics 203</td>
</tr>
<tr>
<td>Psychology 213</td>
<td>Biology 219</td>
<td>Physiology 151</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

PRE-LAW

For admission to the Ohio Northern University College of Law at least 90 quarter hours (60 semester hours), exclusive of physical education are required. The first two years of the Arts-Law curriculum satisfy the entrance requirements.

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<tr>
<th>FALL QUARTER</th>
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<th>SPRING QUARTER</th>
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</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
<td><strong>THIRD YEAR</strong></td>
</tr>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Mathematics 100 or 101</td>
<td>Mathematics 121</td>
<td>Mathematics 114</td>
</tr>
<tr>
<td>History 104</td>
<td>History 105</td>
<td>History 106</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td>Electives</td>
</tr>
</tbody>
</table>

A year course in laboratory science (biology, chemistry or physics) may be elected.
### FALL QUARTER
- Physical Education 104: 1
- Speech 110 or Eng. 121: 3
- Political Science 101: 3
- Psychology 101: 5
- History 113: 3
- Elective: 2-5

### WINTER QUARTER
- Physical Education 105: 1
- Speech 111 or Eng. 122: 3
- Political Science 102: 3
- Psychology 102: 5
- History 114: 3
- Elective: 3

Electives may be selected from courses in the Division of Social Sciences.

### FALL QUARTER
- Biological or Physical Science: 3-5
- Bible: 151: 3
- Political Sci. 208 or 210: 3
- History 224 or: 2
- Economics 204: 3

### WINTER QUARTER
- Biological or Physical Science: 3-5
- Bible 152: 3
- Political Sci. 209 or 204: 3
- History 225 or: 2
- Economics 207: 3

### SPRING QUARTER
- Physical Education 106: 1
- History: 3
- Political Science 103: 3
- Psychology 104 or 210: 5
- History 115: 3
- Elective: 3

### THIRD YEAR

#### ARTS-LAW

Since many law schools require a minimum of three years of college work, it is strongly recommended that the student plan to take at least nine quarters of work in the College of Liberal Arts, to complete a total of 140 quarter hours, exclusive of physical education, and to cover the prescribed and group elective courses as well as a number of "200" courses in the social sciences. A broad liberal education is the best foundation for the study of law. The fourth year is taken as the freshman year in law school. Upon the successful completion of the freshman year in law with a cumulative quality point average of 1.0 or better the degree of Bachelor of Arts is granted. After two more years of successful work in the college of law, 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 in this University.

Students entering upon the Arts-Law curriculum must meet the regular entrance requirements and conform to the rules and regulations of the College of Liberal Arts. A suggested three-year program is outlined above.

### COURSES PRELIMINARY TO PROFESSIONAL OR TEACHING CURRICULA

There are many fields or professions which require liberal arts courses as a foundation or include certain courses in the arts and sciences in their curricula. Many of these basic courses are offered at Ohio Northern University. Students who desire the favorable advantages for study offered on this campus may plan to spend one or more years...
here, paralleling and completing some of the foundation courses, then transfer to a larger institution where the professional curriculum may be concluded.

**AGRICULTURE**

The student who may ultimately look toward the completion of a curriculum in a College of Agriculture may do well to take one or two years of work in the College of Liberal Arts, scheduling the courses listed below.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>FIRST YEAR</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Biology 107</td>
<td>Biology 108</td>
<td>Biology 109</td>
</tr>
<tr>
<td>Chemistry 101a or 101</td>
<td>Chemistry 102a or 102</td>
<td>Chemistry 103a or 103</td>
</tr>
<tr>
<td>Mechanical Drawing 111</td>
<td>Mechanical Drawing 112</td>
<td>Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>Biology 101</td>
<td>Biology 102</td>
<td>Biology 103</td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>Mathematics 103</td>
<td>Mathematics 105</td>
</tr>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
<td>Economics 123</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>Psychology 102</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Suggested electives are courses in literature, local flora, speech and business organization.

**FORESTRY OR CONSERVATION**

A one or two year program is designed for students who expect to enter a College of Forestry or enter the field of Conservation.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Biology 107</td>
<td>Biology 108</td>
<td>Biology 109</td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>Mathematics 103</td>
<td>Mathematics 105</td>
</tr>
<tr>
<td>Chemistry 101</td>
<td>Chemistry 102</td>
<td>Chemistry 103</td>
</tr>
</tbody>
</table>

If a second year is contemplated at this institution, the following courses are among those recommended: English literature, 9 hours; economics, 9 hours; zoology, 9 hours; physics, 15 hours; geography, 8 hours; psychology, 5 hours; American government, 9 hours; engineering drawing, 8 hours; local flora, 3 hours; and surveying, 8 hours. In some instances, depending upon the student’s objectives, calculus should be elected instead of some other courses.

**JOURNALISM**

Students who have completed at least two years of study in the College of Liberal Arts and have satisfactorily met specific requirements may enter schools of journalism and complete work for the degree in journalism. The student should have a working knowledge of French or German and should also possess some skill in typewriting.

Professional courses in schools of journalism are offered on the assumption that the student has a broad foundation in the knowledge of liberal subjects calculated to enrich the mind. The courses outlined serve as foundational work for professional courses in journalism.
The best preparation for journalists is a four-year liberal arts education.

### FALL QUARTER
- Physical Education 101: 1
- English 101: 3
- French, Germ. or Span.: 3
- Biology 101 or Chemistry 101: 3-5
- History 110 or 113: 3
- English 121 or Public Speaking 101: 3

### WINTER QUARTER
- Physical Education 102: 1
- English 102: 3
- French, Germ. or Span.: 3
- Biology 102 or Chemistry 102: 3-5
- History 111 or 114: 3
- English 122 or Public Speaking 102: 3

### SPRING QUARTER
- Physical Education 103: 1
- English 102a: 3
- French, Germ. or Span.: 3
- Biology 103 or Chemistry 103: 3-5
- History 112 or 115: 3
- English 122a: 3

### MEDICAL TECHNOLOGY

The curriculum outlined below is designed to include the cultural and basic courses preliminary to admission to schools training medical technicians. An Arts-Medical Technology curriculum may be designed leading to a bachelor's degree upon completion of work in an approved school of medical technology.

Students who plan to enter training schools or hospitals that require less than four years of college preparation should meet the specific curricular requirements of the training school to which they expect to apply for admission.

### FALL QUARTER
- Physical Education 101: 1
- English 101: 3
- Biology 101: 3
- Chemistry 101 or 102: 5
- Physics 109: 5

### WINTER QUARTER
- Physical Education 102: 1
- English 102: 3
- Biology 102: 3
- Chemistry 102a or 102: 5
- Physics 110: 5

### SPRING QUARTER
- Physical Education 103: 1
- English 103: 3
- Biology 103: 3
- Chemistry 103a or 103: 5
- Physics 111: 5

### SECOND YEAR
- Physical Education 104: 1
- Sociology 101: 5
- Chemistry 104: 5
- Psychology 101: 5

### WINTER QUARTER
- Physical Education 105: 1
- English 104 or 105: 3
- Economics 122: 3
- American Govt. 102: 3
- Psychology 102: 5
- or Journalism 102: 3
- French, Germ. or Span.: 3

### SPRING QUARTER
- Physical Education 106: 1
- English 105 or 106: 3
- Economics 123: 3
- American Govt. 103: 3
- Bible 153: 3
- or Journalism 153: 3
- French, Germ. or Span.: 3

### THIRD YEAR
- Bible 151: 3
- Biology 206: 5
- Chemistry 206: 5
- Biochemistry 261 or Physiology 152: 3

### WINTER QUARTER
- English 211: 3
- Biology 213: 5
- Chemistry 207: 5
- Biology 219: 3

### SPRING QUARTER
- English 212: 3
- Biology 218: 5
- Bible 158: 3
- Ethics 203: 5
FOURTH YEAR

If the bachelor's degree is desired before entering a school of medical technology, the student will complete major (biology or chemistry), minor, group requirements, and pertinent electives. It is highly desirable that the student have a reading knowledge of one modern foreign language, preferably German or French.

PRE-PHARMACY

Some colleges of pharmacy accept or require for admission one or two years of satisfactory pre-professional work in a College of Liberal Arts. To meet these requirements the following pre-pharmacy program is suggested. It should be understood however, that the selection of students by colleges of pharmacy will be based on quality of scholarship and general aptitude for the profession.

FIRST YEAR

FALL QUARTER
- Physical Education 101 1
- English 101 3
- Chemistry 101a or 101 5
- Mathematics 100 or 101 5
- Biology 107 3

WINTER QUARTER
- Physical Education 102 1
- English 102 3
- Chemistry 102a or 102 5
- Mathematics 103 5
- Biology 103 3

SPRING QUARTER
- Physical Education 103 1
- English 102a 3
- Chemistry 103a or 103 5
- Social Science 5
- Biology 103 3

SECOND YEAR

FALL QUARTER
- Physical Education 104 1
- Chemistry 104 5
- Physics 109 5
- Chemistry 206 5
- Modern Language or Social Science 3

WINTER QUARTER
- Physical Education 105 1
- Chemistry 105 5
- Physics 110 5
- Chemistry 207 5
- Modern Language or Social Science 3

SPRING QUARTER
- Physical Education 106 1
- English 3
- Physics 111 5
- Ethics 203 5
- Modern Language or Social Science 3

Note: Physics 110 or 111 will satisfy requirement in addition to course 109.

PRE-VETERINARY MEDICINE

At least two years of pre-professional work in college are required for admission to the study of veterinary medicine. The quality of work done must be considerably above average. Suggested courses are listed in the curriculum that follows. In addition to these courses, a minimum of 15 quarter hours in agriculture courses must be completed in a College of Agriculture as a condition for admission.

FIRST YEAR

FALL QUARTER
- Physical Education 101 1
- English 101 3
- Zoology 101 3
- Physics 109 or Mathematics 101 5

WINTER QUARTER
- Physical Education 102 1
- English 102 3
- Zoology 102 3
- Physics 110 or Mathematics 103 5

SPRING QUARTER
- Physical Education 103 1
- English 102a 3
- Zoology 103 3
- Physics 111 or Elective 5

SECOND YEAR

FALL QUARTER
- Physical Education 104 1
- Political Science 101 3
- Economics 121 3
- Chemistry 206 5

WINTER QUARTER
- Physical Education 105 1
- Political Science 102 3
- Economics 122 3
- Chemistry 207 5

SPRING QUARTER
- Physical Education 106 1
- Political Science 103 3
- Economics 123 3
- Ethics 203 3
- Elective 3
OTHER SUGGESTED CURRICULA

BUSINESS ADMINISTRATION AND LAW

This program is planned for students who expect to enter business which require, in addition to a knowledge of the commercial world, some training in legal subjects. This curriculum is so designed that the major in business administration can be completed in three years and the senior year can be devoted full-time to selected courses in the college of law which will be of great aid to the modern business man. This curriculum is open only to students above average ability.

Upon completion of this curriculum in a satisfactory manner the degree of Bachelor of Arts is awarded.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Mathematics 100 or 101</td>
<td>Mathematics 121</td>
<td>Natural Science</td>
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<td>Natural Science</td>
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<td>3-5</td>
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<td>Business Org. 104</td>
<td>Business Org. 105</td>
<td>Business Org. 106</td>
</tr>
<tr>
<td>Political Science 104 or Speech 102</td>
<td>Political Science 106 or</td>
<td>Political Science 106 or</td>
</tr>
<tr>
<td>Speech 101</td>
<td>Speech 102</td>
<td>Speech 103</td>
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<table>
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<tr>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td>FALL QUARTER</td>
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<tr>
<td>Physical Education 104</td>
</tr>
<tr>
<td>Economics 121</td>
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<tr>
<td>Political Science 101</td>
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<tr>
<td>Psychology 101</td>
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<tr>
<td>Accounting 131</td>
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<td>English or Speech</td>
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<table>
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<th>WINTER QUARTER</th>
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<tbody>
<tr>
<td>Accounting 235</td>
</tr>
<tr>
<td>Economics (Elective)</td>
</tr>
<tr>
<td>Business Adm. 241</td>
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<tr>
<td>Bible 152</td>
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<tr>
<td>Elective</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>Accounting 232 or 236</td>
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<tr>
<td>Economics (Elective)</td>
</tr>
<tr>
<td>Bible 152 or Philosophy 203</td>
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<table>
<thead>
<tr>
<th>THIRD YEAR</th>
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</thead>
<tbody>
<tr>
<td>FALL QUARTER</td>
</tr>
<tr>
<td>Contracts I</td>
</tr>
<tr>
<td>Common Law Pleading</td>
</tr>
<tr>
<td>Legal Bibliography</td>
</tr>
<tr>
<td>Personal Property</td>
</tr>
<tr>
<td>Torts I</td>
</tr>
<tr>
<td>4</td>
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<table>
<thead>
<tr>
<th>WINTER QUARTER</th>
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</thead>
<tbody>
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<td>Agency</td>
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<tr>
<td>Real Property</td>
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<tr>
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</table>

<table>
<thead>
<tr>
<th>SPRING QUARTER</th>
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</thead>
<tbody>
<tr>
<td>*Courses taken in College of Law.</td>
</tr>
</tbody>
</table>

CHEMISTRY

The professional chemist holds a responsible position in research and development. Those who wish to do fundamental research are urged to do graduate work as further training in their profession. Those who prefer development or applied research are urged to transfer to a school of Chemical Engineering at the end of their junior year.
The great chemical industry requires trained personnel for other services as well. For example, patent lawyers, secretaries, librarians, laboratory technicians, sales and technical service personnel are in good demand. College level training in chemistry is necessary in most of these fields, and highly desirable in all. Adjustments of the curriculum to accommodate the student who desires to qualify as a teacher of chemistry in the public schools will be made, provided this desire is indicated prior to the beginning of the junior year.

The following curriculum is suggested, but can be modified at any time to conform to the student's needs or preferences.

**FALL QUARTER**
- Physical Education 101 1
- Chemistry 101 5
- English 101 3
- Mathematics 100 or 101 3
- German 101 3

**WINTER QUARTER**
- Physical Education 102 1
- Chemistry 102 5
- English 102 3
- Mathematics 103 5
- German 102 3

**SPRING QUARTER**
- Physical Education 103 1
- Chemistry 103 5
- English 102a 3
- Mathematics 105 5
- German 103 3

**SECOND YEAR**
- Physical Education 104 1
- Chemistry 104 5
- Mathematics 107 5
- Physics 104 5
- German 117 3

**WINTER QUARTER**
- Physical Education 105 1
- Chemistry 105 5
- Mathematics 108 5
- Physics 106 5
- German 118 3

**SPRING QUARTER**
- Physical Education 106 1
- Chemistry 106 5
- Mathematics 109 5
- Physics 105 5
- German 119 3

**THIRD YEAR**
- Chemistry 206 5
- Chemistry 215 5
- Chemistry 251 1
- English 122 or 210 3
- Mathematics 216 5

**WINTER QUARTER**
- Chemistry 207 5
- Chemistry 216 5
- Chemistry 252 1
- English 122 or 211 3
- Mathematics 212 5

**SPRING QUARTER**
- Chemistry 208 5
- Chemistry 217 5
- Chemistry 253 1
- English 122a or 212 3
- Social Science 5

**FOURTH YEAR**
- Chemistry 212 5
- or 219 or 221 3
- Bible 151 or 232 3
- Social Science 6-12

**WINTER QUARTER**
- Chemistry 213 3
- or 219 or 222 3
- Bible 152 or 201 3
- Social Science 6-12

**SPRING QUARTER**
- Chemistry 214 3
- or 220 or 223 3
- Philosophy 203 5
- Social Science 6-10

Social Science includes Economics, Political Science, History, Sociology or Psychology.

**ECONOMICS AND BUSINESS ADMINISTRATION**

With the increasing complexity of industry and commerce, the system of apprenticeship as a method of business training has become less satisfactory. Greater opportunity in business is therefore open to the college man with business training.

The objective which the individual student seeks will determine electives chosen. For example, if accounting is the student's objective, additional courses in this field will be elected. If the field is sales, then electives should include: marketing, retailing, salesmanship, and advertising. If general business training is desired, electives will be in the field
of finance and management. In all cases electives chosen must have the approval of the adviser and Dean. Economics 121, 122, 123 and Statistics 114 are required of all majors in the department. For majors in Business Administration, Accounting 131, 132, 133, Mathematics of Finance 121 and Marketing 241 are required.

The following curriculum has been planned to meet the needs of students who expect to do graduate work in economics or business administration or who intend to enter industry. The curriculum leads to the degree of Bachelor of Arts.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
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</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Mathematics 100 or 101</td>
<td>Mathematics 121</td>
<td>Natural Science</td>
</tr>
<tr>
<td>Natural Science</td>
<td>Natural Science</td>
<td>History 115</td>
</tr>
<tr>
<td>History 111</td>
<td>History 114</td>
<td>Business Org. 106</td>
</tr>
<tr>
<td>Business Org. 104</td>
<td>Business Org. 105</td>
<td>Elective</td>
</tr>
</tbody>
</table>

Note: Business Administration students are required to take only one year of laboratory science.

**SECOND YEAR**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
<td>Economics 123</td>
</tr>
<tr>
<td>English or Speech</td>
<td>English or Speech</td>
<td>English 118</td>
</tr>
<tr>
<td>Accounting 181</td>
<td>Accounting 132</td>
<td>Accounting 133</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>Psychology 102</td>
<td>Social Science</td>
</tr>
<tr>
<td>American Govt. 101</td>
<td>American Govt. 102</td>
<td>American Govt. 103</td>
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</table>

**THIRD YEAR**

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 204</td>
<td>Economics 207 or 247</td>
<td>Economics 208 or 251</td>
</tr>
<tr>
<td>Economics 214 or Business Adm. 241</td>
<td>Economics 215 or Business Adm. 245</td>
<td>Economics 217 or Business Adm. 246</td>
</tr>
<tr>
<td>Accounting 232 or 236</td>
<td>Accounting 222 or 235</td>
<td>Accounting 223 or 236</td>
</tr>
<tr>
<td>Bible 163 or 210</td>
<td>Bible 163</td>
<td>Bible 163 or Philosophy 203</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
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**FOURTH YEAR**

<table>
<thead>
<tr>
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<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 214 or Business Adm. 241</td>
<td>Economics 215 or Business Adm. 245</td>
<td>Economics 217 or Business Adm. 247</td>
</tr>
<tr>
<td>Business Law 221</td>
<td>Business Law 222</td>
<td>Business Law 223</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td>Statistics 114</td>
</tr>
</tbody>
</table>

**PERSONNEL MANAGEMENT**

Personnel Management is a relatively young field of industry. It has to do with planning, organizing and controlling the performance of the various activities concerned with procuring, developing, maintaining, and utilizing the employees of industry. It deals with human
beings, the most essential and most limited of our natural resources. It tries to make the employees' hours of work more comfortable, safer, and more productive.

With the many problems of union-industry, employee-employer relations, and with increasing governmental controls and regulations, the field of personnel management is growing rapidly, quadrupling its number of administrators within the last ten years. It is a field open to men and women.

The following curriculum is designed to meet the needs of industry. Upon completion of the prescribed course of study a student may go directly into personnel work, or if he so desires, he may pursue graduate study.

### FALL QUARTER
- Physical Education 101 1
- English 101 3
- Mathematics 100 or 101 5
- Typing 101 3
- Bus. Organization 104 3

### FIRST YEAR
#### WINTER QUARTER
- Physical Education 102 1
- English 102 3
- Math. of Finance 121 5
- Typing 102 3
- Ind. Management 172 3

### SECOND YEAR
#### WINTER QUARTER
- Physical Education 105 1
- Economics 122 3
- Accounting 132 3
- Psychology 162 3
- Natural Science 3-5

### THIRD YEAR
#### WINTER QUARTER
- Job Evaluation 274 3
- American Govt. 102 3
- Psychology 215 3
- Speech 102 3
- Cost Accounting 233 3

### FOURTH YEAR
#### WINTER QUARTER
- Business Law 222 3
- Problems in Personnel 3
- Administration 278 3
- Family 212 3
- Salesmanship 246 3
- Bible or Philosophy 3-5

### SPRING QUARTER
- Physical Education 106 1
- Economics 123 3
- Accounting 133 3
- Psychology 104 3
- Natural Science 3-5
- English 118 3

### SPRING QUARTER
- Time & Motion 3
- Study 275 3
- American Govt. 105 3
- Psychology of Business 211 3
- Consumer Economics 228 3
- Statistics 214 5

### SPRING QUARTER
- Business Law 223 3
- Office Management 279 3
- Insurance 251 3
- Bible or Philosophy 3-5

**PHYSICS**

The curriculum as given is suggested for those expecting to do graduate work in physics. For those wishing to teach the physical sciences in the public schools, the curriculum may readily be modified if psychology is taken in the second year, and the professional courses in education are scheduled during the junior and senior years. The degree of Bachelor of Arts is awarded upon completion of this curriculum.
### First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
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<tr>
<td>Mathematics 100 or 101</td>
<td>Mathematics 103</td>
<td>Mathematics 105</td>
</tr>
<tr>
<td>History 104 or 110</td>
<td>History 105 or 111</td>
<td>History 106 or 112</td>
</tr>
<tr>
<td>Chemistry 101a or 101</td>
<td>Chemistry 102a or 102</td>
<td>Chemistry 103a or 103</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>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>Physics 104</td>
<td>Physics 106</td>
<td>Physics 105</td>
</tr>
<tr>
<td>Mathematics 107</td>
<td>Mathematics 108</td>
<td>Mathematics 109</td>
</tr>
<tr>
<td>Social Science</td>
<td>Social Science</td>
<td>Social Science</td>
</tr>
<tr>
<td>English or Speech</td>
<td>English or Speech</td>
<td>English or Speech</td>
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</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 213</td>
<td>Physics 220</td>
<td>Physics 218</td>
</tr>
<tr>
<td>Mathematics 216</td>
<td>Mathematics 212</td>
<td>Mathematics 215</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Physics 216</td>
<td>Physics 217</td>
<td>Physics 221</td>
</tr>
<tr>
<td>Bible 101</td>
<td>Bible 104</td>
<td>Elective</td>
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</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 218</td>
<td>Physics 217</td>
<td>Physics 222</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Modern Language</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Chemistry 206</td>
<td>Chemistry 207</td>
<td>Electives</td>
</tr>
<tr>
<td>Philosophy 201</td>
<td>Physics 216</td>
<td>Elective</td>
</tr>
</tbody>
</table>

### Secretarial

Professional achievement in secretarial work is more and more dependent upon a combination of academic education plus training in vocational and technical subjects, such as typewriting, shorthand, accounting, business law, business writing, and office practice. The program herein offered has a good balance between the academic and the vocational requirements of business.

The purpose of this curriculum which leads to the bachelor's degree, is to prepare men and women for the duties of private secretaries, office assistants, and other types of business positions. The program is arranged so that the student who finds it impossible to remain in continuous residence for four years, may withdraw at the close of the second or third year with sufficient training to meet the requirements of the ordinary business position, although it is obvious that the entire course should be completed to receive the maximum benefits. Graduates with the bachelor's degree are usually given preference by employers.

### First Year

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 108</td>
</tr>
<tr>
<td>English* 101</td>
<td>English* 102</td>
<td>English* 102a</td>
</tr>
<tr>
<td>Business Org. 103</td>
<td>Business Org. 104</td>
<td>Business Org. 105</td>
</tr>
<tr>
<td>Shorthand 110</td>
<td>Shorthand 111</td>
<td>Shorthand 112</td>
</tr>
<tr>
<td>Typewriting 101</td>
<td>Typewriting 102</td>
<td>Typewriting 105</td>
</tr>
<tr>
<td>Political Science or Hist., Elective</td>
<td>Political Science or Hist., Elective</td>
<td>Political Science or Hist., Elective</td>
</tr>
</tbody>
</table>

*Note: The asterisk (*) indicates an advanced level of study in these subjects.*
## FALL QUARTER
- Physical Education 104
- Economics 121
- Accounting 131
- Psychology 101
- Stenography 115
- Elective

## WINTER QUARTER
- Physical Education 105
- Office Practice 129
- Economics 122
- Accounting 132
- Psychology 102 or 135
- Elective

## SPRING QUARTER
- Physical Education 106
- Office Practice 130
- Economics 123
- Accounting 133
- Psychology 104 or 136
- English 118

## FALL QUARTER
- Labor Problems 204
- Natural Science
- Math. 100 or 101 or
- Elective

## WINTER QUARTER
- Money and Banking 207
- Natural Science
- Mathematics 121 or
- Elective

## SPRING QUARTER
- Office Machines 210
- Money and Banking 208
- Natural Science
- Mathematics 114 or
- Elective

## FALL QUARTER
- Business Law 221
- Marketing 241
- Bible 151
- Electives

## WINTER QUARTER
- Business Law 222
- Advertising 245
- Bible 152
- Electives

## SPRING QUARTER
- Business Law 223
- Salesmanship 246
- Bible 153 or 210
- Electives

*Students who do not maintain a C average in the year's work in English Composition must repeat the courses.

## TWO-YEAR SECRETARIAL CURRICULUM

This curriculum is designed for those who do not wish to complete the four year course for a degree in the College of Liberal Arts. The courses are so planned that the student can prepare for positions in business in the secretarial, clerical and sales field. Upon satisfactory completion of this two-year course a certificate of secretarial science is granted.

If desired, this program may be varied to qualify those students who plan to serve as church secretaries for a certificate of church secretarial science.

## FIRST YEAR

### FALL QUARTER
- Physical Education 101
- English 101
- Typing 101
- Stenography 110
- Business Org. 103
- Public Speaking 101
- Political Science 104

### WINTER QUARTER
- Physical Education 102
- English 102
- Typing 102
- Stenography 111
- Business Org. 104
- Public Speaking 102
- Political Science 105

### SPRING QUARTER
- Physical Education 103
- English 102a
- Typing 103
- Stenography 112
- Business Org. 105
- Political Science 106
- Office Machines

## SECOND YEAR

### FALL QUARTER
- Physical Education 104
- Shorthand Dictation
  and Transcription 115
- Accounting 131
- Marketing 241
- Elective

### WINTER QUARTER
- Physical Education 105
- Office Practice 129
- Economics 122
- Accounting 132
- Advertising 245
- Elective

### SPRING QUARTER
- Physical Education 106
- Office Practice 130
- Economics 123
- Accounting 133
- English 118
- Salesmanship 246
For those students who plan only one year of professional training beyond high school, and who desire that training in a college with its cultural and social environment, the following one-year business course is offered.

### FALL QUARTER
- Physical Education 101 1
- English Composition 101 3
- Typewriting 101 3
- Stenography 110 3
- Business Org. 104 2
- Accounting 131 3
- Orientation 3

### WINTER QUARTER
- Physical Education 102 1
- English Composition 102 3
- Typewriting 102 3
- Stenography 111 3
- Business Org. 105 2
- Accounting 132 3
- Office Practice 129 3

### SPRING QUARTER
- Physical Education 103 1
- Business English 118 3
- Typewriting 163 3
- Stenography 112 3
- Accounting 133 3
- Office Practice 130 3
- Shorthand Transcription 3

### SPEECH

The General Speech sequence indicated below is developed for the student who has selected speech education, government service, public relations and related areas for his vocational choice. The sequence may be adjusted to the student’s field of special interest. The student who desires to prepare for government service will take courses in the social sciences and minimize the concentration in English. The student who wishes to teach will take required educational courses.

### FIRST YEAR

#### FALL QUARTER
- Physical Education 101 1
- English 101 3
- Speech 101 3
- Mathematics 100 or 101 5
- Play Production 181 3
- Bible 101 2

#### WINTER QUARTER
- Physical Education 102 1
- English 102 3
- Speech 102 3
- Mathematics 103 5
- Stage Craft 126 3
- Bible 104 2

#### SPRING QUARTER
- Physical Education 103 1
- English 102a 3
- Speech 103 3
- Acting 121 3
- Bible 105 2
- Elective 6

### SECOND YEAR

#### FALL QUARTER
- Physical Education 104 1
- English 121 3
- History 110 3
- Psychology 101 5
- Debate 212 3
- Radio Workshop 281 1

#### WINTER QUARTER
- Physical Education 105 1
- English 122 3
- History 111 3
- Psychology 102 or 105 3
- Speech Re-Education 141 3
- Radio Workshop 281 1

#### SPRING QUARTER
- Physical Education 106 1
- English 122a 3
- History 112 3
- Psychology 5
- Speech 211 3
- Radio Workshop 281 1

### THIRD YEAR

#### FALL QUARTER
- Modern Foreign Lang. 3
- English Literature 3
- Early History of Theater 228 3
- Literary Inter. 161 3
- Theater Workshop 231 1

#### WINTER QUARTER
- Science 3-5
- Modern Foreign Lang. 3
- English Literature 3
- World Theater 237 3
- Advanced Inter. 261 3
- Theater Workshop 231 1

#### SPRING QUARTER
- Science 3-5
- Modern Foreign Lang. 3
- English Literature 3
- American Theater 238 3
- Theater Workshop 231 1
- Elective 3

### FOURTH YEAR

#### FALL QUARTER
- Speech Re-Education 241 3
- Shakespeare 210 3
- Modern Foreign Lang. 3
- Bible or Philosophy 3
- Elective 3

#### WINTER QUARTER
- Speech Methods 250 3
- Shakespeare 211 3
- Modern Foreign Lang. 3
- Electives 6

#### SPRING QUARTER
- Church Drama 263 3
- Shakespeare 212 3
- Modern Foreign Lang. 3
- Electives 6
THEATER ARTS

The Theater Arts sequence which follows is designed to provide a variety of experience within the framework of the individual student's vocational interest. The sequence permits of various modifications to meet the needs of the student. The prospective teacher of Theater Arts will, in addition to the major field, take appropriate courses in education. The students preparing for church or community work will elect courses from those areas.

**FIRST YEAR**

**FALL QUARTER**
- Physical Education 101 1
- English 101 3
- Mathematics 100 or 101 5
- Modern Foreign Lang. 3
- Play Production 151 3
- Bible 101 2

**WINTER QUARTER**
- Physical Education 102 1
- English 102 3
- Mathematics 103 5
- Modern Foreign Lang. 3
- Stage Craft 126 3
- Bible 104 2

**SPRING QUARTER**
- Physical Education 103 1
- English 102A 3
- Modern Foreign Lang. 3
- Acting 121 3
- Bible 106 3
- Elective 5

**SECOND YEAR**

**FALL QUARTER**
- Physical Education 104 1
- English or Speech 3
- Biology 101 3
- Make-up 124 3
- Sociology 151 5
- Modern Foreign Lang. 3

**WINTER QUARTER**
- Physical Education 105 3
- English or Speech 3
- Biology 102 3
- Costume 129 3
- Sociology 153 5
- Modern Foreign Lang. 3

**SPRING QUARTER**
- Physical Education 106 1
- English or Speech 3
- Biology 103 3
- Theater Dialect 123 3
- Modern Foreign Lang. 3
- Elective 3

**THIRD YEAR**

**FALL QUARTER**
- Shakespeare 210 3
- Early Hist. of The’tr 226 3
- Theater Workshop 231 3
- History 113 3
- Elective 3

**WINTER QUARTER**
- Shakespeare 211 3
- World Theater 237 3
- Theater Workshop 231 3
- History 114 3
- Elective 6

**FOURTH YEAR**

**FALL QUARTER**
- Electives in Majors and Minors 15

**WINTER QUARTER**
- Electives in Majors and Minors 15

**SPRING QUARTER**
- Electives in Majors and Minors 15

**PRE-THEOLOGY**

The suggested outline of studies which follows will be found to meet the pre-professional requirements of practically all theological schools. Many seminaries urge that the student have a thorough knowledge of the social sciences and include in their suggestions at least one natural science. This outline includes a broad and liberal course which will enable the student to appreciate his graduate studies to the fullest extent. The courses given plus the emphasis throughout upon Christian idealism will bring about a realization of the most important aim of this department which is to produce for the world well equipped, spiritually-minded young men who will minister to the needs of their communities in every possible way.
RELIGIOUS EDUCATION

Believing that there is a definite need for trained lay workers in the church, and particularly for pastor's assistants and church secretaries, an interdepartmental course is now being offered covering the basic needs in religious education. Students desiring to acquire the degree of Bachelor of Arts for Lay Workers in the church are advised to enroll for the following curriculum of which sixty-five hours are general requirements for the bachelor's degree and fifty-eight hours required in the interdepartmental fields, leaving sixty-three hours of possible electives. A wide range of courses is offered in the interdepartmental courses in order that the student may have as broad an understanding of church activities as possible.
<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy. of Religion 203</td>
<td>Psychology 104</td>
<td>Methods and Materials</td>
</tr>
<tr>
<td>Principles of High School Teaching 208 or</td>
<td>Religious Education, Goals 122</td>
<td>of Religious Ed. 123</td>
</tr>
<tr>
<td>Principles of Elementary Teaching 206</td>
<td>Electives</td>
<td>Pay. of Counselling 215</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>Theory and Practice of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Games 156</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marriage and the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Family 212</td>
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<td></td>
<td></td>
<td>Elective</td>
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<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elem. Handwork 233</td>
<td>Student Teaching in Religious Ed. 127</td>
<td>Crafts and Hobbies 235</td>
</tr>
<tr>
<td>Student Teaching in Religious Ed. 127</td>
<td>Visual Aids in Religious (Audio) Education 126</td>
<td>Student Teaching in Religious Ed. 127</td>
</tr>
<tr>
<td>Agencies of R.E. 124</td>
<td>Electives</td>
<td>Wor. and Music in R.E. 125</td>
</tr>
<tr>
<td>Philosophy 201</td>
<td></td>
<td>Philosophy 205</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>Elective</td>
</tr>
</tbody>
</table>

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS FOR LAY WORKERS IN THE CHURCH

The degree of Bachelor of Arts with an interdepartmental major is designed especially for students who wish to prepare themselves for full time work in the church as general assistant to the minister.

### A. General Requirements:

### B. Interdepartmental Major:

## BASIC COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bible 101, 104, 105, 153</td>
<td>9</td>
</tr>
<tr>
<td>English 101, 102, 102a</td>
<td>9</td>
</tr>
<tr>
<td>Public Speaking 101, 102</td>
<td>9</td>
</tr>
<tr>
<td>Zoology 101, 102, 103</td>
<td>9</td>
</tr>
<tr>
<td>Science (Elective)</td>
<td>9</td>
</tr>
<tr>
<td>Social Sciences:</td>
<td>3</td>
</tr>
<tr>
<td>Hist. of United States 112, 114, 115</td>
<td>9</td>
</tr>
<tr>
<td>Social Pathology 153</td>
<td>9</td>
</tr>
<tr>
<td>Social Psychology 104</td>
<td>9</td>
</tr>
<tr>
<td>Physical Education 101, 102, 103</td>
<td>5</td>
</tr>
<tr>
<td>Physical Education 104, 105, 106</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Philosophy 201, 203</td>
<td>10</td>
</tr>
<tr>
<td>Psychology 101, 104, 135, 136</td>
<td>16</td>
</tr>
<tr>
<td>Psychology of Counselling 215</td>
<td>9</td>
</tr>
<tr>
<td>Church History 201</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 212, 214</td>
<td>3</td>
</tr>
<tr>
<td>Religious Education 121, 122, 123</td>
<td>3</td>
</tr>
<tr>
<td>Agencies of Religious Education 124</td>
<td>3</td>
</tr>
<tr>
<td>Audio-Visual Aids in R. E. 126</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching in Religious Ed. 127</td>
<td>3</td>
</tr>
<tr>
<td>Church Drama 235</td>
<td>3</td>
</tr>
</tbody>
</table>

## SPECIAL COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Physical Education 115, 156, 201</td>
<td>10</td>
</tr>
<tr>
<td>Industrial Arts 233, 235</td>
<td>6</td>
</tr>
<tr>
<td>Principles of High School Teaching 208</td>
<td>3</td>
</tr>
<tr>
<td>Worship and Music in Religious Education 125</td>
<td>3</td>
</tr>
</tbody>
</table>

If a candidate for this degree desires training for the position of a church secretary the following courses may be substituted for 27 hours of the interdepartmental major provided the substitutions are made for the courses listed under Special Courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration 103, 104, 105</td>
<td>6</td>
</tr>
<tr>
<td>Typewriting 101, 102, 103</td>
<td>6</td>
</tr>
<tr>
<td>Shorthand 110, 111, 112</td>
<td>6</td>
</tr>
<tr>
<td>Office Practice 129, 130</td>
<td>6</td>
</tr>
</tbody>
</table>

Candidates for this degree with a particular interest in the field of Music may substitute for one of the Special Courses, Conducting 140, 141, 142, 6 hours.
DIVISIONS AND DEPARTMENTS
OF INSTRUCTION

Courses in the “100” group (Lower Division Courses) are primarily for freshmen and sophomores. Courses in the “200” group (Upper Division Courses) are primarily for juniors and seniors. Certain “100” courses in modern foreign language, chemistry, and mathematics may be counted as Upper Division Courses if taken during the junior or senior year. Courses may be withdrawn or other changes made at the discretion of the Board of Trustees and Faculty.

Division I. Language, Literature and Arts

Chairman (To be appointed)

DEPARTMENTS: ENGLISH LANGUAGE AND LITERATURE,
FOREIGN LANGUAGE AND LITERATURE, MUSIC,
SPEECH AND THEATER ARTS

Students who expect to complete a major in any of the departments of this division other than English are advised to take a minimum of 18 hours in English or Speech, or both; to elect courses in history and philosophy; and to continue the study of foreign language as a preparation for advanced study.

ENGLISH LANGUAGE AND LITERATURE

Professor Freeman, Chairman; Assistant Professor Owen;
Mrs. Link, Mr. Guild, (part time)

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

Students majoring in English are advised to minor in French, Latin, or German, and to elect a year of English history. A minor may be completed in history.
A major in English consists of a minimum of 36 hours in addition to English 101, 102 and 102a. The department recommends the following sequence of courses: English 103, 104, and 105; English (American Literature) 121, 122, and 122a; English 210, 211, 212; English 214, 215, and 216; or English 217, 219, and 219a. English 201, 205, and 225 are required of all students majoring in English.

A minor in English consists of a minimum of 24 hours in addition to English 101 and 102. The department recommends that the student complete English 102a; English 103, 104, and 105; English (American Literature) 121, 122, and 122a, and English 201.

**COMPOSITION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>101. COMPOSITION</td>
<td>Fall, Winter</td>
<td>3 hours</td>
</tr>
<tr>
<td>102. COMPOSITION</td>
<td>Winter, Spring</td>
<td>3 hours</td>
</tr>
<tr>
<td>102a. COMPOSITION</td>
<td>Spring</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

These three courses constitute a year of work for freshmen. English 101 provides drill in grammar, punctuation, mechanics, and simple expository writing. English 102 offers additional drill in punctuation and grammar along with study of the principles of descriptive and narrative writing. English 102a is a study of outlining, the process of reasoning, the brief, and argumentative and advanced expository writing. Weekly themes are required in each course. Students who show a high degree of proficiency in English and are exempted from English 102a may elect English 122a or English 105. Ten sections.

**ARGUMENTATION**

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>110. ARGUMENTATION</td>
<td>Fall</td>
<td>3 hours</td>
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<tr>
<td>111. ARGUMENTATION</td>
<td>Winter</td>
<td>3 hours</td>
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</tbody>
</table>

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. Prerequisite: English 101, 102.

**BUSINESS COMMUNICATION**

A study of written communication in business, emphasizing the use of effective English and the technique of forms of communication. Sales, credit, collection, adjustment letters, business reports. Prerequisite: English 101, 102, 102a.

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<tr>
<th>Course</th>
<th>Offered</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>201. COLLEGE GRAMMAR</td>
<td>Winter</td>
<td>3 hours</td>
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</table>

An intensive study of English grammar. Required of students majoring in English who expect to teach.

**EXPOSITORY WRITING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Offered</th>
<th>Credits</th>
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<tbody>
<tr>
<td>205. EXPOSITORY WRITING</td>
<td>Fall</td>
<td>2 hours</td>
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</table>

*Not given in 1951-1952.*
*225. EXPOSITORY WRITING Winter, 2 hours
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.

JOURNALISM

127. SURVEY OF JOURNALISM
A basic course covering all phases of journalism with particular emphasis on newspaper and the manner in which stories are handled. Much consideration is given to developing a news sense. Prerequisite: English 101, 102, 102a.

128. NEWS WRITING
Technique and style of news and news-feature stories: spot news, human interest, sports, financial, society, features, political, crime, etc. Assignments will be covered to obtain stories. Open to members of student publications staffs.

131. JOURNALISM LABORATORY
Designed particularly for members of the Northern and Review staffs. A critical analysis of the work of the student staff. Newspaper production practices through simulated procedure.

LITERATURE

103. FROM THE BEGINNING TO THE EIGHTEENTH CENTURY Fall, 3 hours
104. FROM THE EIGHTEENTH CENTURY TO THE VICTORIAN ERA Winter, 3 hours
105. FROM THE VICTORIAN ERA TO 1920 Spring, 3 hours
With the exception of the novel these three courses constitute a survey of English Literature in which the works of the chief English writers are stressed. Attention is given to the political, social, and intellectual background of the various periods. Some emphasis is placed upon the types of poetry and prose and upon verification.

106. EIGHTEENTH CENTURY PROSE Fall, 3 hours
*Not given in 1951-1952.
107. EIGHTEENTH CENTURY PROSE
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.

108. EIGHTEENTH CENTURY POETRY
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.

112. MODERN BRITISH AND AMERICAN POETS
Open to sophomores.

*121. AMERICAN POETRY
A study chiefly of the nine great American poets of the nineteenth century, but attention is given to work of the recent and contemporary poets. An attempt is made to show what America has done in poetry, the greatest of the fine arts.

*122. AMERICAN PROSE
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.

*122a. AMERICAN PROSE
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. Prerequisite: English 101 and 102.

210. SHAKESPEARE: HISTORIES
Fall, 3 hours

211. SHAKESPEARE: TRAGEDIES
Winter, 3 hours

212. SHAKESPEARE: COMEDIES
Spring, 3 hours

In these courses Shakespeare is studied as a dramatist, poet, interpreter of his age and of human life. Attention is given to the technique of the Elizabethan drama. Open to juniors and seniors.

*214. NINETEENTH CENTURY POETRY
A study of the poetry of Wordsworth, Coleridge, Byron, Keats, and Shelley. Attention to versification.

*215. NINETEENTH CENTURY POETRY
A study of the chief poems of Tennyson and Browning. Attention is given to the patriotic and social attitude of Tennyson and to Browning's ability to portray and to interpret character.

*Not given in 1951-1952.
216. NINETEENTH CENTURY POETRY
   Spring, 3 hours
   A study of the poetry of Arnold, Swinburne, Morris, Rossetti, Thompson, Meredith, and Kipling.

217. NINETEENTH CENTURY ESSAYISTS
   Fall, 3 hours
   In English 217 the following essayists are studied: Coleridge, Lamb, Hazlitt, Landor, DeQuincey, Macauley, Carlyle, Newman, Ruskin, Huxley, Pater, and Stevenson.

219. THE NINETEENTH CENTURY ENGLISH NOVEL
   Winter, 3 hours

219a. THE NINETEENTH CENTURY ENGLISH NOVEL
   Spring, 3 hours
   Courses 219 and 219a continue a survey of the English novel of the century. The masterpieces of the major novelists from Scott to Conrad are read and studied. Attention is given to the technique of the novel. Courses 217, 219, and 219a constitute a year's work for juniors and seniors.

220. WORLD LITERATURE
   Fall, 3 hours
   A study in English translation of the masterpieces of Greek and Roman writers: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Aristotle, Theocritus, Terence, Cicero, Lucretius, Catullus, Vergil, Horace, Ovid, Livy, Tacitus, Juvenal, Martial, Pliny the Younger, and St. Augustine. An attempt is made to show the contribution of each writer to western European thought and culture. Open to juniors and seniors.

221. WORLD LITERATURE
   Winter, 3 hours
   A study in English translation of some of the principal works of the major Italian, Spanish, German, and French writers from the Middle Ages to the middle of the eighteenth century: Dante, Petrarch, Boccaccio, Machiavelli, Castiglione, Cervantes, Lope de Vega, Walther von der Vogelweide, Wolfram von Eschenbach, Luther, Hans Sachs, Rabelais, Montaigne, Pascal, Moliere, Racine, Voltaire, and Rousseau. Open to juniors and seniors.

222. WORLD LITERATURE
   Spring, 3 hours
   A study in English translation of some of the principal works of the major German, French, Norwegian, and Russian writers from the middle of the eighteenth century to the present; Lessing, Goethe, Schiller, Heine, Nietzsche, Mann, Hugo, Balzac, Flaubert, Maupassant, Zola, France, Proust, Ibsen, Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, Chekov, and Sholokov. Open to juniors and seniors.

231. ENGLISH PROBLEMS
   Fall, Winter, Spring, 1-3 hours
   Minor investigations for qualified seniors who are majoring in English. Consult head of department. Total credit may not exceed three hours.

*Not given in 1951-1952.
The modern languages are designed to meet both cultural and practical needs. The advanced courses afford opportunity for students to major or minor in French. If a student expects to do graduate work or to specialize in science, he should have a working knowledge of French or German, or both.

For a major in French the requirements are three years of college French in addition to Elementary French or the equivalent and two quarters of French phonetics, a total of 38 hours. Students majoring in this department should elect courses in English literature, history, Latin, and Speech.

For a minor in French, the requirement is two years in addition to Elementary French, a total of 24 hours.

Elementary and intermediate courses in French, German and Spanish may be counted as Upper Division Courses if taken during the junior or senior year. Some additional work is required.

**FRENCH**

101. ELEMENTARY FRENCH  
    Fall, 3 hours

102. ELEMENTARY FRENCH  
    Winter, 3 hours

103. ELEMENTARY FRENCH  
    Pronunciation and the essentials of grammar. Basic vocabulary and idioms. Elementary reading, based on French life, customs and manners. Ear training (dictation) and oral practice: simple conversation suited to the needs and abilities of the class. 
    Spring, 3 hours

104a. INTERMEDIATE FRENCH  
    Fall, 3 hours

105a. INTERMEDIATE FRENCH  
    Winter, 3 hours

106a. INTERMEDIATE FRENCH  
    Spring, 3 hours

    Review and further elements of grammar. More advanced reading (short stories, plays and novels), with abundant conversational practice. Occasional lectures about French life, history, architecture, art and civilization, illustrated through films or lantern slides.

223. MODERN LITERATURE  
    Fall, 3 hours

224. MODERN LITERATURE  
    Winter, 3 hours
225. MODERN LITERATURE
The study of typical and selected texts, illustrative of modern literary movements, such as Romanticism, Realism, Naturalism, accompanied by illustrated lectures on French life, customs, architecture, art, etc., intended as a background for assigned readings. Prerequisite: French 104a-106a. In alternate years with French 231a-233a.

206a. GENERAL SURVEY OF FRENCH LITERATURE Fall, 3 hours
207a. GENERAL SURVEY OF FRENCH LITERATURE Winter, 3 hours
208a. GENERAL SURVEY OF FRENCH LITERATURE Spring, 3 hours
A study of the main literary currents and characteristic monuments of the great periods of French literature. Lectures, class discussions, assigned readings. Prerequisite: French 104a-106a. Given in alternate years with French 223-225.

*225a. FRENCH PHONETICS Winter, 1 hour
*226a. FRENCH PHONETICS Spring, 1 hour

231a. ADVANCED GRAMMAR REVIEW, PROSE COMPOSITION, CONVERSATION Fall, 3 hours
232a. ADVANCED GRAMMAR REVIEW, PROSE COMPOSITION, CONVERSATION Winter, 3 hours
233a. ADVANCED GRAMMAR REVIEW, PROSE COMPOSITION, CONVERSATION Spring, 3 hours
A thorough review of grammar, vocabulary and idioms. Prose composition. More advanced conversation. Lectures and illustration of French life, customs, architecture, art, etc. Course to be conducted in French as far as possible. Given in alternate years with French 223-225a.

GERMAN

101. ELEMENTARY GERMAN Fall, 3 hours
102. ELEMENTARY GERMAN Winter, 3 hours
103. ELEMENTARY GERMAN Spring, 3 hours
Pronunciation and spelling. Oral approach, leading to a thorough study of the essentials of German grammar with written exercises.

*Not given in 1951-1962.
Basic vocabulary. Elementary reading, based on German life, customs and manners. Simple conversation suited to the needs and abilities of the class.

104a. INTERMEDIATE GERMAN Fall, 3 hours
105a. INTERMEDIATE GERMAN Winter, 3 hours
106a. INTERMEDIATE GERMAN Spring, 3 hours

Review of grammar, vocabulary and idioms. More advanced reading (short stories, novels, easy scientific material) with conversation. Occasional lectures about German history, architecture, art, music and civilization, illustrated through films or lantern slides.

117. SCIENTIFIC GERMAN Fall, 3 hours
118. SCIENTIFIC GERMAN Winter, 3 hours
119. SCIENTIFIC GERMAN Spring, 3 hours

Review of grammar, vocabulary and idioms. The technique of reading advanced German and its application: abundant practice in intensive and extensive reading of scientific material. Emphasis on special needs and interests of each individual student according to his field of study. Given on sufficient demand instead of or in addition to German 104a, 105a and 106a. Prerequisite: German 101-103.

SPANISH

101. ELEMENTARY SPANISH Fall, 3 hours
102. ELEMENTARY SPANISH Winter, 3 hours
103. ELEMENTARY SPANISH Spring, 3 hours

Pronunciation and spelling. The essentials of grammar. Basic vocabulary and idioms. Elementary reading, based on Spanish and Latin-American life, customs and manners. Ear training (dictation) and oral practice: simple conversation suited to the needs and abilities of the class.

104a. INTERMEDIATE SPANISH Fall, 3 hours
105a. INTERMEDIATE SPANISH Winter, 3 hours
106a. INTERMEDIATE SPANISH Spring, 3 hours

Review and further elements of grammar. More advanced reading (short stories, plays and novels), with abundant conversational practice and review of vocabulary and idioms. Occasional lectures about Spanish and Latin-American life, history, architecture, art and civilization, illustrated through films and lantern slides.
121. COMMERCIAL SPANISH  
Fall, 3 hours

122. COMMERCIAL SPANISH  
Winter, 3 hours

123. COMMERCIAL SPANISH  
Spring, 3 hours

Review and further elements of grammar, vocabulary and idioms. Reading of commercial material, with conversation. Writing of Spanish business letters of all types. Courses to be conducted in Spanish as far as possible. Given on sufficient demand instead of or in addition to Spanish 104a, 105a and 106a. Prerequisite: Spanish 101-103 or equivalent.

LATIN

101. ELEMENTARY LATIN  
Fall, 3 hours

102. ELEMENTARY LATIN  
Winter, 3 hours

103. ELEMENTARY LATIN  
Spring, 3 hours

These courses are designed for those who have not had Latin in high school. Given upon sufficient demand.

104. INTERMEDIATE LATIN  
Fall, 3 hours

105. INTERMEDIATE LATIN  
Winter, 3 hours

106. INTERMEDIATE LATIN  
Spring, 3 hours

Reading from various Latin writers. Given upon sufficient demand. Prerequisite: Elementary Latin 101, 102, 103 or two units of high school Latin.

GREEK

101. GREEK  
Fall, 3 hours

102. GREEK  
Winter, 3 hours

103. GREEK  
Spring, 3 hours

Beginning Greek courses including work in New Testament. Given upon sufficient demand.

MUSIC

PROFESSOR ROIDER, Chairman; PROFESSOR LAMALE; MR. JONES

AIMS

Instruction is provided for those who desire to become teachers and supervisors of music, and an opportunity is afforded to those who wish to devote themselves to the literature of music, and those who desire...
a background in choosing music as a profession. Because training in music should be based upon a broad and thorough general education, the curricula have been so constructed as to secure a symmetrical balance between musical and academic subjects.

PRESSER HALL

Presser Hall, the home of the Department of Music, built in memory of Theodore Presser, an early faculty member, cost nearly $145,000. It contains the Willis Auditorium, with a seating capacity of 500, a large stage, studios, practice rooms, and classrooms.

SPECIAL STUDENTS

A student who desires to register for work in applied music or theoretical subjects without having graduation in view, may register as a special student. There are no requirements for registration as a special student other than evidence of talent and the ability to pursue a selected course with success.

BACHELOR OF ARTS WITH MAJOR IN MUSIC

A major of 45 hours of music or a minor of 25 hours of music, is accepted toward the degree of Bachelor of Arts. The major consists of the following courses of Theoretical and Applied Music: Theory, History of Music, Musical Form, Applied Music and Ensemble participation. Theoretical Music should constitute about 30 hours of this major.

The courses listed below are not inflexible and may be changed to meet the requirements of the individual by consulting the Dean and the head of the department.

Curriculum for the degree of Bachelor of Arts in Music.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
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<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English 101</td>
<td>English 102</td>
<td>English 102a</td>
</tr>
<tr>
<td>Mathematics 100 or 101</td>
<td>Mathematics 103</td>
<td>Theory 103</td>
</tr>
<tr>
<td>Theory 101</td>
<td>Theory 102</td>
<td>Applied Music†</td>
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<tr>
<td>Applied Music†</td>
<td>Applied Music†</td>
<td>Chorus, Band or Orch.</td>
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<tr>
<td>Chorus, Band or Orch.</td>
<td>Chorus, Band or Orch.</td>
<td>Elective</td>
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<tr>
<th>SECOND YEAR</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>General Psychology 101</td>
<td>Ed. Psychology 105</td>
<td>Ed. Psychology 136</td>
</tr>
<tr>
<td>Theory 104</td>
<td>Theory 105</td>
<td>Theory 106</td>
</tr>
<tr>
<td>History and Appreciation 153</td>
<td>History and Appreciation 154</td>
<td>History and Appreciation 155</td>
</tr>
<tr>
<td>Applied Music†</td>
<td>Applied Music†</td>
<td>Applied Music†</td>
</tr>
<tr>
<td>Chorus, Band or Orch.</td>
<td>Chorus, Band or Orch.</td>
<td>Chorus, Band or Orch.</td>
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</tbody>
</table>

†Applied Music (a) Voice, Piano or Organ, (b) Instrument, Piano.
### FALL QUARTER
- English Literature: 3
- French 101: 3
- Biology 101: 3
- *(a)* Counterpoint 285: 3
- *(b)* Instrumentation 250: 3
- Applied Music†: 3
- Chorus, Band or Orch.: 1

### WINTER QUARTER
- English Literature: 3
- French 102: 3
- Biology 102: 3
- *(a)* Choral Arrang. 286: 3
- *(b)* Orchestration 251: 3
- Applied Music†: 3
- Chorus, Band or Orch.: 1

### SPRING QUARTER
- English Literature: 3
- French 103: 3
- Biology 103: 3
- *(a)* Choral Arrang. 287: 3
- *(b)* Adv. Orch. 252: 3
- Applied Music†: 3
- Chorus, Band or Orch.: 1

### FALL QUARTER
- Hist. or Political Science: 3
- German 101: 3
- Bible: 3
- Conducting 140: 2
- Applied Music†: 3
- Ensemble: 2
- Chorus, Band or Orch.: 1

### WINTER QUARTER
- Hist. or Political Science: 3
- German 102: 3
- Bible: 3
- Conducting 141: 2
- Applied Music†: 3
- Ensemble: 2
- Chorus, Band or Orch.: 1

### SPRING QUARTER
- Hist. or Political Science: 3
- German 103: 3
- Bible: 3
- Conducting 142: 2
- Applied Music†: 3
- Ensemble: 2
- Chorus, Band or Orch.: 1

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### PUBLIC SCHOOL MUSIC

This curriculum is approved by the State Department of Education for the training of teachers and supervisors of Public School Music. The degree of Bachelor of Science in Education is granted to students completing the Public School Music curriculum, and such persons are granted the state four-year provisional certificate.

See curriculum and description of courses under Division of Teacher Education.

### APPLIED MUSIC

#### VOICE

The courses in voice aim to establish correct physical and mental poise, the principles of breathing and breath control, proper diction and articulation using the best of various methods from the old Italian classic of the bel canto period to the modern scientific theories. Repertoire, interpretation, and presentation are stressed, and opportunities are afforded each student to present vocal works before an audience through recital and student assembly. Students are encouraged to study songs in the modern languages, Italian, French, and German.

#### PIANO

The special needs of each individual student guide the approach to instruction in piano playing. Technical studies and selections are carefully chosen to develop the student’s ability to recreate the desire of the
composer. As music is a means of intellectual culture and artistic enjoyment, the works of the masters are stressed through all grades. Recitals and public appearances give the student an opportunity to gain poise and develop self-assurance.

ORGAN

No student will be accepted unless he has reached a grade in piano playing sufficient to warrant organ instruction. The course of study provides for thorough training in preparation for church and concert work including the best organ literature and the principles of modulation, accompaniment, and improvisation. The course has been arranged to give a knowledge of the French school of organ music through the study of the works of the best composers in this particular school.

VIOLIN, VIOLA, AND VIOLONCELLO

After a thorough preparation in the fundamentals, instruction in the stringed instruments includes not only the systematic development of adequate technical facility but also definite emphasis on such phases as intonation, tone production, and style, all necessary to artistic performance and interpretation. The course of study is flexible and depends upon the individual needs and qualifications of the student. Offered upon sufficient demand.

WOODWIND AND BRASS INSTRUMENTS

Special effort is made to develop the playing ability of the student through the stressing of good tone, phrasing, technique, and ensemble. Suitable material for the advancement of the student is used for the building of technique and repertoire, selected according to the needs of the individual. Participation in band, orchestra, and ensemble is encouraged. Offered upon sufficient demand.

CHORUS-CHOIR

Students of any college of Ohio Northern University interested in singing in the Chorus-Choir have the opportunity to try out for this organization. Music of all types, accompanied and a cappella, are used throughout the year. Sacred and secular music for concerts at the University and outside the community are a part of the program including the presentation of "The Messiah" in December and a large choral work in the spring.
BAND

All University students who play band instruments are given the opportunity to play in the University Band. A wide variety of material is used throughout the year. The band is used to augment athletic games, football and basketball, and appear in concert as well as appearing at many school and community functions.

ORCHESTRA

An orchestra made up of students of any college of the University is used to augment choral productions and present concerts. Participation at school and local functions is encouraged. Participation in ensembles is expected of orchestral students.

THEORETICAL MUSIC

See description of courses in Public School Music under Division of Teacher Education.

SPEECH AND THEATER ARTS

Assistant Professor Ranney, Chairman; Mr. Bale

The Department of Speech and Theater Arts presents as its goal a three-fold purpose:

1. To enhance the student's use of the tools of oral communication in order that he may be better enabled to participate as an active member in a democratic community.

2. To provide an opportunity for the student to experience a variety of activities which make a direct contribution to satisfactory living.

3. To direct the training of selected students in the various areas of speech education.

The Department of Speech and Theater Arts offers three major fields of study: one, general speech; two, theater arts; three, teaching. The requirements for the general speech major are courses 101, 102, 103, 131, 141, 161 and additional courses selected from the departmental offerings to complete a total of thirty-six hours. The requirements for the theater arts major are courses 121, 126, 131, 139, 231, 238, and additional courses selected from the department to complete a total of thirty-six hours. The requirements for the teaching major are courses 101, 102, 103, 121, 126, 131, 141, 161, 211, 212, 215, 241, 250, 270, and additional courses selected from the departmental offerings to complete a total of sixty hours.
The Department of Speech and Theater Arts offers a general minor program. The requirements for the general minor are courses 101, 131, 141, 161, 211, and additional courses selected from the departmental offerings to make a total of twenty-four hours.

101. ELEMENTS OF SPEECH
A first course designed to explore the various areas of oral language experience.

102. PUBLIC SPEAKING
Beginning Public Speaking. Speech construction, principles, and practices. Analysis of speaking conditions. Emphasis is on delivery.

103. PUBLIC SPEAKING
A continuation of 102 with the emphasis on organization of materials.

107. SPEECH IMPROVEMENT
Designed to aid those who wish to improve the individual speech pattern. Attention is given to the elements of voice and diction, and the elimination of speech defects.

211. DISCUSSION
An analysis of the forms of discussion, round table, panel, forum, and the techniques of discussion, research, fact, opinion. The work of the quarter centers about the discussion of a contemporary problem.

212. DEBATE
Intensive study and debate of a contemporary problem or the intercollegiate debate question. The forms of debate are reviewed and evaluated. Credit per year three hours, maximum three years, nine hours.

215. ADVANCED PUBLIC SPEAKING
A study of the advanced elements of audience analysis and speech organization for the professional or pre-professional student. An opportunity is presented to develop a sustained speech theme.

*121. FUNDAMENTALS OF ACTING I
An exploration of the problems of the actor in voice and action. A review of the stage art, past and present. Study of contemporary techniques. Laboratory fee.

*122. ACTING II
The development of the actor as an individual. Intensive study and presentation of individual problems and techniques. Laboratory fee.

*222. ACTING III
The development of the actor as a part of a group situation. Intensive study and presentation of group problems and techniques. Laboratory fee.

*Not given in 1951-1952.
*123. THEATER DIALECTS  
A study of the various American and Foreign dialects practiced on the contemporary stage. Individual presentations are encouraged. Laboratory fee.

124. MAKEUP  
The art and use of contemporary stage makeup. Laboratory fee.

*125. TRADITION OF THE THEATER  
The lore of the theater presented in terms of the actors and actresses of the past and the contemporary period.

126. FUNDAMENTALS OF STAGE CRAFT  
The problems of the technician in stage settings and lighting. A review of stage craft past and present. Investigation and evaluation of contemporary techniques. Laboratory fee.

127. SCENIC DESIGN  
An intensive study of the problems of set construction and other materials of the theater stage. Individual projects are encouraged. Laboratory fee.

128. STAGE LIGHTING  
The problems and techniques of stage lighting are investigated. A study of special effects is made. Individual projects are encouraged. Laboratory fee.

129. COSTUME  
The evolution of the art of costuming from the past to the contemporary day. Individual projects are encouraged. Laboratory fee.

131. FUNDAMENTALS OF PLAY PRODUCTION  
A study of the elements of production from the standpoint of the producer-director. The special problems of the elementary and secondary school are given consideration. Development of a group project. Laboratory fee.

230. PLAYWRITING  
Emphasis is placed on the one-act play and the radio script. The purpose of the work is to stimulate creative writing and to encourage experimentation in dramatic form.

231. THEATER WORKSHOP  
An opportunity for students interested in the various areas of drama to project individual solutions through the medium of a group project. Credit per quarter one hour, maximum three hours. Laboratory fee.

*Not given in 1961-1962.
232. ADVANCED DIRECTING  
Spring, 3 hours
Selected students are encouraged to cast and direct for school and community production one and three-act materials.

233. THE COMMUNITY THEATER  
Winter, 3 hours
The role of the community theater is analyzed and evaluated. The problems of public relations, business management are developed in addition to the areas of acting and stagecraft. Laboratory fees.

234. THE BUSINESS OF THE THEATER  
Fall, 3 hours
The problems of business management for the church, school and community theater. Preparation of budget, advertising, programs. Laboratory fee.

235. CHURCH DRAMA  
Spring, 3 hours
Early church drama, church drama of the present day. Emphasis is placed on the development of materials for use in church dramatic activities. Laboratory fee.

236. EARLY HISTORY OF THE THEATER  
Fall, 3 hours
The Greek theater through the medieval period.

237. THE WORLD THEATER  
Winter, 3 hours
A study of continental and other contemporary drama and practices, but does not include American drama.

238. THE AMERICAN THEATER  
Spring, 3 hours
A study of the American Theater from the Revolution to the present day. Emphasis is placed on contemporary writers and practices.

139. SCRIPT SELECTION I  
Fall, 3 hours
A study of period and contemporary drama in terms of production problems in the areas of church, school and community.

239. SCRIPT SELECTION II  
Winter, 3 hours
A continuation of 139 with emphasis on the adaption of materials to the area of individual interest.

141. SPEECH RE-EDUCATION  
Fall, Winter, Spring, 3 hours
A study of the problems of defective speech, causes and diagnosis. Students are required to observe speech work in the Ada schools. Speech Re-Education areas of value to the elementary and secondary school classroom teacher are given special consideration.

241. ADVANCED SPEECH RE-EDUCATION  
Fall, Winter, Spring, 3 hours
Analysis of current techniques for the correction of speech disorders, functional and organic. Students participate in supervised clinical work in the Ada schools. Prerequisite 141 or the equivalent.

*Not given in 1951-1952.
250. TEACHING OF SPEECH  
Effective methods of teaching speech in the elementary and secondary schools. Special attention is given to the place of speech in extracurricular programs, debate, dramatics, and radio.

161. LITERARY INTERPRETATION  
Fall, 3 hours
A study of narrative, dramatic and poetic literature for oral interpretation. An analysis of the materials for meaning and interpretative potential for the student.

261. ADVANCED INTERPRETATION  
Winter, 3 hours
A continuation of 161 with the emphasis on program building correlated with the analysis of audience, author, and interpreter.

167. STORY TELLING  
Spring, 3 hours
The course is designed to aid the student to develop narrative materials for play, pre-school and elementary work.

281. RADIO WORKSHOP  
Fall, Winter, Spring, 1-3 hours
An opportunity for students interested in the various areas of radio to project individual solutions through the medium of a group project. The work of the course provides for the participation of WLOK, Lima. Credit per quarter one hour, maximum three hours.

Division II. Natural Sciences

PROFESSOR BERGER, Chairman

DEPARTMENTS: BIOLOGY, CHEMISTRY, MATHEMATICS, PHYSICS

A student who chooses one of the departments in this division for his major is advised to schedule two laboratory sciences during the freshman and sophomore years, and in most cases a course in mathematics, and to acquire a reading knowledge of a foreign language if advanced work is anticipated.

BIOLOGY

PROFESSOR HUBER, Chairman; ASSISTANT PROFESSOR YINGLING;  
MR. HILL (part-time)

The aims of this department are to enable the student to understand better the life world in which he lives, to prepare for the teaching field, to obtain a biological foundation for the study of medicine, dentistry, and nursing, and to qualify for admission to graduate work.
A student who plans to complete a major in biology is advised to include a year of chemistry, one year in physics, statistics, and courses in psychology and sociology; and have a reading knowledge of German and French if graduate work is anticipated. A course in philosophy is strongly recommended.

101. ZOOLOGY  
Fall, 3 hours

102. ZOOLOGY  
Winter, 3 hours

103. ZOOLOGY  
Spring, 3 hours

These courses are designed for students who desire a general acquaintance with some of the biological laws and theories evidenced by the animal world. A general survey of the animal kingdom based on classification, morphology, physiology, and ecology. Especial attention is given to the problems of the organism, with emphasis on development, reproduction, genetics, and evolution. Discussion, two hours; laboratory, three hours.

104. GENERAL BIOLOGY  
Fall, 3 hours

105. GENERAL BIOLOGY  
Winter, 3 hours

106. GENERAL BIOLOGY  
Spring, 3 hours

These courses give consideration to fundamental biological principles and concepts manifested in plant and animal life. Considerable emphasis is given to human biology. Courses are open to students who plan to take only one year of biological science. Discussion, two hours; laboratory, three hours.

107. BOTANY  
Fall, 3 hours

108. BOTANY  
Winter, 3 hours

109. BOTANY  
Spring, 3 hours

These courses are presented largely as cultural courses with emphasis on careful observation and logical conclusion. The processes, structure, classification, environmental relations, distribution, genetics and evolution of plants are considered. Discussion, two hours; laboratory, three hours.

110. LOCAL FLORA  
Spring or Summer, 3 hours

A systematic study of the vascular plants, both native and introduced. A field course supplemented by greenhouse and herbarium studies. To be arranged.

151. PHYSIOLOGY  
Spring, 4 hours

152. PHYSIOLOGY  
Fall, 4 hours

Brief courses in human physiology dealing with digestion, respiration, excretion, metabolism, foods, endocrines, muscles, reproduction, and the nervous system. Demonstrations. See College of Pharmacy.
206. **COMPARATIVE VERTEBRATE ANATOMY**  
    Fall, 5 hours 
    A comparative study of the anatomy of fishes and amphibians. Careful dissections are made of the different systems and the relationships noted. Discussion, three hours; laboratory, six hours.

213. **MAMMALIAN ANATOMY**  
    Winter, 5 hours 
    A thorough dissection of a typical mammal with a careful correlation of structure and function. The course is designed especially for physical education and pre-professional students. Prerequisite: Comparative Vertebrate Anatomy. Discussion three hours; laboratory, six hours.

218. **VERTEBRATE EMBRYOLOGY**  
    Spring, 5 hours 
    This course is fundamentally important to students who expect to teach zoology, study medicine, or from a cultural standpoint who wish to know something of the origin and development of the human body. Laboratory work is confined largely to the frog and the chick, with occasional reference to the pig. Discussion three hours; laboratory, six hours. Prerequisite Zoology 101, 102, 103.

219. **HISTOLOGICAL TECHNIQUE**  
    Winter, 3 hours 
    Methods of collecting, killing, preserving and preparing materials for demonstration and laboratory purposes are considered. A microscopic study of various plant and animal tissues is made. Lecture and class work one hour, laboratory, six to eight hours. Time schedule to be arranged. Open to seniors majoring in biology.

222. **PLANT PHYSIOLOGY**  
    Winter, 3 hours 
    This course consists of a critical study of some of the physiological processes of plants. Prerequisite: Botany 107, 108, 109.

230. **HEREDITY**  
    Spring, 3 hours 
    A study of the principles of inheritance in plants and animals. The inheritance of human traits is given considerable emphasis, and the problems of eugenics are considered. Laboratory exercises with plant and animal materials are included. Prerequisite: Zoology 101, 102, 103 or Botany 107, 108, 109.

*235. **EVOLUTION**  
    Spring, 3 hours 
    A course dealing with the development of the organic world, and an examination of the evidences of evolution and of the theories attempting to explain the method of evolution. Prerequisite: A year course in biology.

240. **BIOLOGICAL PROBLEMS**  
    1-3 hours 
    Minor investigations for qualified seniors who are taking a major or minor in biology. By arrangement any quarter. Fee depends on nature of work done. May be continued. 
    Note: Courses in Bacteriology are listed in College of Pharmacy.

*Not given in 1951-1952*
CHEMISTRY

PROFESSOR HOEKJE, Chairman; MR. BRADLEY

The courses offered in this basic science are designed to provide the fundamental principles and techniques necessary to the student in his pursuit of technical understanding and proficiency. No science is completely independent and chemists must know mathematics, physics and biology, if they wish to appreciate the position of their science. The required courses for a major are general, analytical, organic, physical and at least three hours a quarter from the advanced courses. Since technical training alone does not give an education, work in the Humanities exclusive of the required English, Bible and History courses is expected.

Normally the "200" series courses are to be taken only after the "100" series courses have been satisfactorily completed. Those choosing "200" series courses with only general chemistry background should be above average students.

101a. INTRODUCTORY CHEMISTRY

Fall, 5 hours

102a. INTRODUCTORY CHEMISTRY

Winter, 5 hours

103a. INTRODUCTORY QUALITATIVE ANALYSIS

Spring, 5 hours

Courses 101a and 102a consist of a careful study of the fundamental laws of chemistry and of the properties of common non-metallic elements and their compounds; course 103a is an introductory study in qualitative analysis of acids and metals, based upon the principles of ionization, mass action and chemical equilibrium. A brief study is made of the common metallic elements and their compounds. These courses are designed for students who do not present one unit of high school chemistry for admission. Lecture and quiz, four hours; laboratory, three hours per week.

101. GENERAL CHEMISTRY

Fall, 5 hours

102. GENERAL CHEMISTRY

Winter, 5 hours

103. QUALITATIVE ANALYSIS

Spring, 5 hours

Courses 101 and 102 are a study of the fundamental laws of chemistry. Exercises in stoichiometric relations test the student's understanding of their theory and applications. The laboratory experiments illustrate the major concepts studied. Course 103 is an introductory study in qualitative analysis of acids, bases and salts. Careful consideration is given to the metallic ions. The theory is based on the principles of ionization, and the extent and rate of chemical reaction. Prerequisite: One unit of high school chemistry. Lecture and quiz, four hours; laboratory, three hours per week.
104. QUANTITATIVE ANALYSIS  Fall, 5 hours
105. QUANTITATIVE ANALYSIS  Winter, 5 hours
106. QUANTITATIVE ANALYSIS  Spring, 5 hours

Course 104 is a study of the fundamentals of volumetric analysis with special attention to the general theory of errors and calibration of apparatus. Acidimetry, alkalimetry and precipitation titrations are followed with indicators and instruments. Course 105 is a continuation of 104. It covers the theory and redox titrations and fundamentals of gravimetric analysis. Course 106 is a continuation of 105. Gravimetric and colorimetric analysis with some electrodeposition and polarography are studied. Lecture and quiz, two hours; laboratory, nine hours per week.

206. ORGANIC CHEMISTRY  Fall, 5 hours
207. ORGANIC CHEMISTRY  Winter, 5 hours
208. ORGANIC CHEMISTRY  Spring, 5 hours

Course 206 is an introductory course devoted mainly to a study of the simpler saturated and unsaturated open chain compounds. Course 207 is a continuation of 206. It includes aliphatic compounds of multiple and mixed functions such as hydroxy and dibasic acids; stereochrome and the carbohydrates are discussed briefly, and aromatic compounds are introduced. Course 208 is a continuation of 207. Aromatic compounds, and alicyclic and heterocyclic compounds in outline including briefly dyes, proteins and physiologically active substances. Lecture and quiz, four hours; laboratory, four hours per week.

212. INORGANIC CHEMISTRY  Fall, 3 hours
213. INORGANIC CHEMISTRY  Winter, 3 hours
214. INORGANIC CHEMISTRY  Spring, 3 hours

An advanced course in the application of principles describing molecular and crystal structure and the extent and rate of chemical reactions to inorganic substances. Open to seniors. Lecture, two hours; laboratory, four hours per week. Prerequisite: Mathematics 212, 216; Chemistry 217.

215. PHYSICAL CHEMISTRY  Fall, 5 hours
216. PHYSICAL CHEMISTRY  Winter, 5 hours
217. PHYSICAL CHEMISTRY  Spring, 5 hours

A study of the measurements which can be made on systems, and their relation to the states of matter, molecular structure, and the extent and rates of chemical reactions. The application of these measurements to all phases of chemistry is stressed. Lecture, three hours; laboratory, six hours per week. Prerequisites: Physics 106; Mathematics 109.
218. ADVANCED ORGANIC CHEMISTRY
Fall, 3 hours

219. ADVANCED ORGANIC CHEMISTRY
Winter, 3 hours

220. ADVANCED ORGANIC CHEMISTRY
Spring, 3 hours
These are advanced courses in Qualitative Organic Analysis and Organic Preparations. Attention is given to the structure and separation of optically active compounds in 220. Open to seniors. Lecture and quiz, two hours; laboratory, four hours per week.

221. ADVANCED ANALYTICAL CHEMISTRY
Fall, 3 hours

222. ADVANCED ANALYTICAL CHEMISTRY
Winter, 3 hours

223. ADVANCED ANALYTICAL CHEMISTRY
Spring, 3 hours
The theories of analytical chemistry and their applications to new methods of analysis. Courses 222 and 223 emphasize the use of physico-chemical measurements in analytical chemistry. Open to seniors. Lectures, one hour; laboratory, six to eight hours per week.

224. THEORETICAL CHEMISTRY
Fall, 3 hours

225. THEORETICAL CHEMISTRY
Winter, 3 hours

226. THEORETICAL CHEMISTRY
Spring, 3 hours
A purely mathematical approach to the principles of physical chemistry. Prerequisites: Mathematics 212, 215, 216 or their equivalent. Lecture and quiz, three hours per week.

231. CHEMISTRY PROBLEMS
Credit to be arranged
Minor investigation in chemistry, may be elected any quarter in the senior year by any student who is qualified to carry it. Work may be started in the Fall quarter and continued throughout the year. Credit will be evaluated at the close of the course. This is an honor course. Consult the head of the department.

251. CHEMICAL LITERATURE
Fall, 1 hour

252. HISTORY OF CHEMISTRY
Winter, 1 hour

253. MODERN THEORIES
Spring, 1 hour
These are essentially reading courses designed to give the student supervised experience in the use of the library. Required of chemistry majors in their junior year.

MATHEMATICS

ASSOCIATE PROFESSOR HARPF, Chairman; MR. ARCHER, MR. ROSS, MR. EPPLEY (part time)

The aim of this department is to offer courses primarily as part of a liberal education, as requirements for engineering students and for prospective graduate students in mathematics and physics. In all courses
the theory developed is followed by application to exercises and practical problems when possible.

Students majoring in mathematics are advised to follow the sequence of courses. Courses in calculus may be counted as upper division courses. Those planning to major or do graduate work in this field are expected to complete courses 212, 215, and 216 or their equivalent. Physics is recommended as a minor. A reading knowledge of German or French is advised.

90. BEGINNING ALGEBRA Fall, 5 hours
For those who have had no algebra in high school. No credit toward degree.

91. PLANE GEOMETRY Winter, 5 hours
For those who have no entrance credit in plane geometry. No credit toward degree.

92. SOLID GEOMETRY Spring, 3 hours
This course is the equivalent of high school solid geometry. Not counted toward a major. Prerequisite: One unit of algebra and one unit of plane geometry. Given upon sufficient demand.

100. INTERMEDIATE ALGEBRA Fall, 5 hours
Fundamental operations, factoring and fractions, exponents and radicals, functions and their graphs, equations and their solutions, systems of linear equations, quadratic equations, logarithms. Prerequisite: One unit of high school algebra, and one unit of plane geometry. No credit for majors and minors.

101. COLLEGE ALGEBRA Fall, Winter, 5 hours
Systems of equations involving quadratics, ratio, proportion, variation, progressions, mathematical induction, binomial theorem, inequalities, complex numbers, theory of equations, logarithms, interest and annuities, partial fractions, infinite series. Prerequisite: One and one-half-units of high school algebra, and one unit of plane geometry, or Mathematics 100.

103. TRIGONOMETRY Winter, 5 hours
The fundamental principles of the subject are developed and applied to trigonometric reductions and to the solutions of triangles. Numerous exercises in the field of geometry, physics, and mechanics are studied. Prerequisite: Plane geometry and one and one-half units of high school algebra.

105. ANALYTICAL GEOMETRY Spring, 5 hours
The purpose of this course is to acquaint the student with analytical methods of investigation and to make him more skilful in the use of algebraic processes as applied to geometric loci. Special attention is
given to the equations of the right line, circle, conic sections, and the higher plane curves. Prerequisite: Mathematics 103.

107. CALCULUS Fall, 5 hours
108. CALCULUS Winter, 5 hours
109. CALCULUS Spring, 5 hours

Differentiation and integration of standard algebraic and transcendental forms with numerous application in rectangular, polar, and parametric equations, and in physics. Also studied are series, hyperbolic functions, partial differentiation, and multiple integrals. Prerequisite: Mathematics 100, 103, 105.

111c. PRACTICAL ASTRONOMY Spring, 3 hours

This course covers spherical trigonometry with numerous application to the fields of geodesy and astronomy. Prerequisite: College algebra and plane geometry.

206. ANALYTICAL GEOMETRY OF SPACE Any quarter, 3 hours

This offering is planned to give the student a good working knowledge of coordinate geometry in three dimensional space. Equations of the first and second degree of two and three unknowns are stressed. A seminar course. Prerequisite: Mathematics 105. Time to be arranged.

212. DIFFERENTIAL EQUATIONS Winter, 5 hours

This is a study of the more common types of ordinary differential equations, especially those of the first and second orders, with emphasis on geometrical interpretations and applications to geometry, elementary mechanics and physics. Prerequisite: Mathematics 109.

213. COLLEGE GEOMETRY Winter, 5 hours

This course is designed to meet the needs of those who expect to teach mathematics in the public schools. General methods leading to the solution and construction of geometric problems are studied. Open to juniors and seniors.

214. STATISTICAL METHODS Spring, 3-5 hours

This is an elementary survey of statistical methods designed to meet the needs of students in education, economics, sociology, and science. It includes sampling, tabulation, graphs, averages, probability and error, dispersion, trends, cycles, correlation, variance, and index numbers. Prerequisite: Mathematics 100 or 101.

215. VECTOR ANALYSIS Spring, 3 hours

Introduction to vector analysis and simple applications to geometry and physics. Prerequisite: Mathematics 216.

216. ADVANCED CALCULUS Fall, 4 hours

Introduction to advanced topics including power series and expansion of functions. The Gamma and Beta functions; line and surface
integrals; Bessel functions; calculus of variation; complex variables. Prerequisite: Mathematics 109.

217. THEORY OF EQUATIONS


PHYSICS

PROFESSOR BERGER, Chairman; MR. EFFLEY (part time)

The primary aim of this department is to train the student to reason from fundamental experimental facts in solving the problems of physics. In conjunction with this, the department aims to give a training sufficiently broad to enable the student to appreciate the physics of popular scientific articles, to teach physics in the public schools, to apply physics in engineering, medicine and other sciences, and to pursue graduate work to the best advantage.

The physics major must include courses 213, 214, and 220. For those contemplating graduate work in physics, 45 hours each of physics and mathematics should be completed. An introductory course in philosophy and a reading knowledge of German are strongly recommended. A year of general chemistry should be completed. A year of economics is recommended.

104. GENERAL PHYSICS: MECHANICS OF SOLIDS AND FLUIDS Fall, 5 hours

105. GENERAL PHYSICS: SOUND, HEAT, AND LIGHT Spring, 5 hours

106. GENERAL PHYSICS: ELECTRICITY AND MAGNETISM Winter, 5 hours

A series of courses designed for engineers and science majors. Prerequisite: High school physics and Mathematics 105. Calculus to be taken concurrently. Discussion, four hours; one three-hour laboratory period.

109. GENERAL PHYSICS: MECHANICS OF SOLIDS AND FLUIDS Fall, 5 hours

110. GENERAL PHYSICS: SOUND, HEAT AND LIGHT Winter, 5 hours

111. GENERAL PHYSICS: ELECTRICITY AND MAGNETISM Spring, 5 hours

These courses are open to any persons except physical science majors. They are required for pre-medical and pre-dental students. Course 109 and either 110 or 111 are required for pre-pharmacy students. Discussion, four hours; one two-hour laboratory period. Course 109 is prerequisite to 110 and 111. Prerequisites: Two units of high school mathematics.
213. ANALYTICAL MECHANICS
Fall, 5 hours
A course covering the principles of mechanics as applied to Statics; also a study of dynamics of particles and bodies.

214. MATHEMATICS OF PHYSICS
Spring, 5 hours
A course dealing with the application of mathematics to physics and related sciences. Prerequisite: Physics 104, 105, 106; and calculus.

216. ADVANCED LABORATORY: MECHANICS
1-3 hours

217. ADVANCED LABORATORY: LIGHT, HEAT, SOUND
1-6 hours

218. ADVANCED LABORATORY: ELECTRICITY
1-6 hours
Credit is given in courses 216, 217, and 218 according to the amount of work done. A quiz is given on assigned readings for each experiment. Not more than six hours of credit may be earned in any one of the three quarters. Offered every quarter. Prerequisite: Physics 104, 105, 106 and Mathematics 109. Two three-hour laboratory periods and one class period each week for three hours credit.

220. MODERN PHYSICS
Winter, 3 hours
A lecture and quiz course involving fundamental questions on the nature of things, such as atomic structure, electron theory, quantum theory, and the theory of relativity. Prerequisite: General Chemistry and Physics 104, 105, 106.

221. ADVANCED LIGHT
Winter, 5 hours
An honor course in physical optics and spectroscopy. There are no regular class recitations. Reports are made by the student in individual conferences. Only superior students may register for this course. Consent of the head of the department is necessary. Prerequisite: Physics 104, 105, 106 and Calculus 109.

222. ADVANCED ELECTRICITY
Winter, 5 hours
An honor course in electricity and magnetism. Requirements are the same as for Course 221. Only one honor course open each year.

Division III. Social Sciences

PROFESSOR BINKLEY, Chairman

DEPARTMENTS: ECONOMICS AND BUSINESS ADMINISTRATION, HISTORY AND POLITICAL SCIENCE, PSYCHOLOGY AND SOCIOMETRY, RELIGION AND PHILOSOPHY

A student who plans to make his major elections from a department in this group should complete at least two courses in the social sciences during the freshman and sophomore years. Proficiency in English is
indispensable. A course in statistics will prove useful, and a reading knowledge of French, German, or Spanish is essential if graduate work is anticipated.

ECONOMICS AND BUSINESS ADMINISTRATION

ASSISTANT PROFESSOR HICKMAN, Chairman; ASSOCIATE PROFESSOR RITZ, MR. MCKITRICK

The aim is to acquaint the student with a general rather than a specialized training in economics and business administration. Emphasis is placed upon a comprehensive view of business as a whole rather than upon some one of the specialized functions in economics and business administration.

Secretarial courses are designed to serve those persons who plan to become secretaries and assistants to executives or who are looking toward administrative positions in keeping with their training and experience. Students preparing to teach business subjects will find these courses suited to their needs. Under the Division of Teacher Education, a four-year curriculum in business administration is outlined.

On preceding pages of this catalog will be found detailed curricula in Business Administration and Law, Economics and Business Administration, and Secretarial.

ECONOMICS

For a major in Economics 45 quarter hours are necessary. These must include Economics 121, 122, 123, Statistics 114, Labor Problems 204, Money and Banking 207, 208, Corporation Finance 214, 215 and Public Finance 217. A minor shall include 30 quarter hours which must include Economics 121, 122, 123.

112. AMERICAN ECONOMIC HISTORY

Survey of economic conditions and their influence upon the development of the United States into a nation, the economic aspect of the reconstruction policy following the Civil War, agriculture and agrarian discontent, problem of public domain and public land. The emergency of large scale enterprise and its attendant problems are studied in relation to the development of the United States as a major world power, and the social and economic problems arising out of the depression of the 30's and the World War which followed. Special attention will be given to current problems of significance.
121. PRINCIPLES OF ECONOMICS Fall, 3 hours

122. PRINCIPLES OF ECONOMICS Winter, 3 hours

123. PRINCIPLES OF ECONOMICS Spring, 3 hours
A survey course dealing with principles of law of supply and demand as applied to factors of production in our present-day society, where monopolistic competition is highly important due to patented machinery and trade-marked articles. Not open to freshmen.

125. ECONOMICS FOR ENGINEERS Winter, 5 hours
A course in general economic theory and problems presented from the point of view of the engineer. Not open to freshmen.

204. LABOR PROBLEMS Fall, 3 hours
Economic analysis of past and present-day problems of labor; history and development of labor unions in United States; parts played by business management and government, representing the public interest. Prerequisite: Economics 121, 122, 123.

207. MONEY AND BANKING Winter, 3 hours

208. MONEY AND BANKING Spring, 3 hours
Historical development of our monetary system through various business cycles and political changes in federal government to the present day; social and economic effects of our monetary system and banking practices under one Federal Reserve System and state banking regulations. Prerequisite: Economics 121, 122, 123.

*214. CORPORATION FINANCE (BUSINESS FINANCE) Fall, 3 hours

*215. CORPORATION FINANCE (BUSINESS FINANCE) Winter, 3 hours
Principles of modern corporation finance; problems covering financial organization and income policies of corporations are presented. Prerequisite: Economics 123; Business Organization and Management 103, 104, and 105; and Principles of Accounting 133.

*217. PUBLIC FINANCE Spring, 3 hours
Principles involving fiscal problems of federal, state and intra-state governmental bodies. Special emphasis is placed on budgeting, revenues, public debts, governmental expenditures, fiscal policies, shifting incidence, and need for more efficiency in operation of all governmental bodies. Prerequisite: Economics 123, and Corporation Finance 215.

220. ECONOMIC PROBLEMS Credit Arranged
Minor investigations in economics and business open to qualified students. Courses may be elected any quarter with consent of head of department.

*225. RISE OF MODERN CAPITALISM Winter, 3 hours

*Not given in 1951-1952.
*226. RISE OF MODERN CAPITALISM  Spring, 3 hours

Study of the origin and growth of industrial capitalism. Factors bringing about the industrial revolution and its development into the creation of our industrial capitalistic system. Attention will be given to the influence of prominent business leaders and economists through the history of the development of our present-day big business. Special emphasis will be given to experiences of the British Empire as it emerged. Attention is also focused on the growing importance of government in our economic life.

*227. ECONOMIC GEOGRAPHY  Spring, 3 hours

The influence exerted by topography, climate, geographical position, soil and other natural resources of the various types of activity by means of which man gains his living. The influence of geographical factors on the forms of agriculture, extracting and manufacturing industries and on the problems of transportation and commerce.

*228. CONSUMER ECONOMICS  Spring, 3 hours

An analysis of economic problems of the individual consumer, including factors influencing consumer's choices, sources of consumer loans, home financing, etc. Attention will be given to consumer co-operatives, and governmental attempts to protect the consumer.

*234. INTERNATIONAL TRADE AND FINANCE  Spring, 3 hours

Examination of the bases of international trade, cartels and commodity agreements, and the machinery set up to facilitate the exchange of goods and services among nations. Particular attention is paid to tariffs, reciprocal trade agreements, determination of exchange rates, international loans, exchange depreciation and intergovernmental payments. The structure and function of the International Monetary Fund and the International Bank for Reconstruction and Development is carefully studied. Prerequisite: Economics 123.

BUSINESS ADMINISTRATION

For a major in Business Administration 45 quarter hours are necessary. These must include Business Organization 104, 105, 106, Statistics 114, Accounting 131, 132, 133, Mathematics of Finance 120, and Marketing 241. A minor in Business Administration shall include 30 quarter hours including Accounting 131, 132, 133.

104. BUSINESS ORGANIZATION  Fall, 2 hours

105. BUSINESS ORGANIZATION  Winter, 2 hours

*Not given in 1951-1952.
106. BUSINESS ORGANIZATION
   Spring, 2 hours
   These courses introduce the student to the principles of organization, management, and control of business, by presenting types of problems with which the business executive must deal: an over-all view of the field. Open to freshmen.

114. STATISTICS
   Spring, 5 hours
   This is an elementary survey of statistical methods designed to meet the needs of students in education, economics, sociology and science. It includes sampling, tabulation, graphs, averages, probability and error, dispersion, trends, cycles, correlation, variance, and index numbers. Prerequisite: Mathematics 100 or 101.

121. MATHEMATICS OF FINANCE
   Winter, 5 hours
   This course acquaints the student with the mathematical tools of business. It treats simple and compound interest; discounts; installment buying; depreciation; price of bonds; amortization; sinking fund and types of annuities. Required of Business Administration and Secretarial students. Prerequisite: College Algebra 100 or 101.

131. PRINCIPLES OF ACCOUNTING
   Fall, 3 hours

132. PRINCIPLES OF ACCOUNTING
   Winter, 3 hours

133. PRINCIPLES OF ACCOUNTING
   Spring, 3 hours
   Fundamental process of accounting applied to service, trading, and manufacturing concerns; preparation of working papers and financial statements from properly arranged accounts in general ledger; practice sets for representative business concerns completed. Required for majors.

221. BUSINESS LAW
   Fall, 3 hours

222. BUSINESS LAW
   Winter, 3 hours

223. BUSINESS LAW
   Spring, 3 hours
   Legal divisions and terminology; contracts, agency, negotiable instruments; suretyship, bailments, insurance, transportation, partnerships and corporations; property deeds, mortgages, bankruptcy, tenancy, torts, and crimes. Prerequisite: Junior standing.

229. BUDGETING
   Winter, 5 hours
   Principles and methods of constructing budgets. Procedure for estimating income and expenses. The organization for controlling those expenditures and measuring the operating efficiency of the organization. The place of budgets in the management of a business enterprise. Prerequisite: Accounting 232.
*230. GOVERNMENTAL ACCOUNTING
Spring, 5 hours
Study of the accounting principles and procedures as they apply to municipal, state and national governmental units and organizations. Prerequisite: Accounting 131, 132, 133, Budgeting 229.

231. INTERMEDIATE ACCOUNTING
Fall, 5 hours
Principles of intermediate accounting as applied to study of the balance sheet, and profit and loss accounts for partnerships and corporations. Prerequisite: Mathematics of Finance 121; and Accounting 133.

*232. ADVANCED ACCOUNTING
Winter, 5 hours
Principles of advanced accounting as applied to special phases of accounting: partnerships, consignments, venture accounts, installment sales, insurance, correcting entries, statement of affairs and bankruptcy, home office and branch, consolidated statements, foreign exchange, estates and trusts, budgets, public accounts, bank accounting, and stock brokerage. Prerequisite: Accounting 231.

*233. COST ACCOUNTING
Spring, 5 hours
Basic principles of cost accounting: departmentalization and account classification, unit and standard costs, continuous process and specific or job order costs, material and direct labor costs, and manufacturing expenses and methods of distributing such expenses. Prerequisite: Accounting 232.

235. FEDERAL INCOME TAX
Winter, 5 hours
Study of federal income tax regulations to determine tax liability under current laws; preparation of individual, partnership, corporation, estate and trust tax returns. Prerequisite: Accounting 231.

*236. AUDITING
Spring, 5 hours
Principles and accepted procedures of auditing accounting records and statements, with special emphasis given to making of working papers and the writing of audit papers for making a complete audit. Prerequisite: Accounting 231.

238. PHARMACEUTICAL ACCOUNTING
This is a course presenting the basic principles of accounting, the completion of a practical drugstore accounting set, the preparation of financial statements and income tax returns. Open to Pharmacy students only.

241. MARKETING
Fall, 3 hours
Principles of marketing, including an analysis of marketing functions, distribution channels, consumers' buying motives and demand, cost and pricing policies, and recent trends in marketing of consumers' goods. Required for Business Administration majors. Prerequisite: Economics 121, 122 and 123.

* Not given in 1951-1952
*245. ADVERTISING
Principles and procedures in advertising used primarily to create a buying attitude by ultimate consumer; advertising stages and media are considered for both national advertiser as well as for local retailer. Prerequisite: Marketing 241; and Psychology 101.

Winter, 3 hours

246. SALESMA NiSHAP
Principles of selling, particularly as applied by salesmen in actual selling field, but has a general and practical application—selling oneself in every branch of human endeavor. Prerequisite: Marketing 241; and Psychology 101.

Spring, 3 hours

*247. RETAILING
Underlying principles of successful retailing as applied in operation of retail stores—department stores, chain stores, and independent or locally owned stores. Prerequisite: Marketing 241; and Psychology, 101.

Winter, 3 hours

251. INSURANCE
General non-technical course in insurance; considers generally accepted kinds of insurance, such as life, property, marine, casualty, and surety bonds; designed to develop a sound personal understanding of insurance as well as to furnish a working background for prospective insurance salesmen. Prerequisite: Economics 121, 122 and 123.

Spring, 3 hours

SECRETARIAL

101. TYPEWRITING
Fall, 3 hours

102. TYPEWRITING
Winter, 3 hours

103. TYPEWRITING
Spring, 3 hours

A series of courses designed to give the student a practical working knowledge of the typewriter combined with a study of the business letter, office forms, compositions, rough drafts, and tabulation, with special emphasis on statistical and legal typewriting. A high degree of accuracy and speed is required.

110. SHORTHAND
Fall, 3 hours

111. SHORTHAND
Winter, 3 hours

112. SHORTHAND
Spring, 3 hours

Basic courses in Gregg Simplified Shorthand, by the functional method, designed to give the student a thorough foundation in principles, and practice in reading and writing at a satisfactory rate.

115. SHORTHAND AND TRANSCRIPTION
Fall, 3 hours

*Not given in 1951-1952.
116. SHORTHAND AND TRANSCRIPTION
Winter, 3 hours

117. SHORTHAND AND TRANSCRIPTION
Spring, 3 hours
Advanced courses with emphasis on speed and accuracy in production. High degree of efficiency is required. Prerequisite: Shorthand 112.

129. OFFICE PRACTICE
Winter, 3 hours
Theory and actual practice in office work both in class and laboratory.

130. OFFICE PRACTICE
Spring, 3 hours
A study of the secretarial profession with special emphasis on office mail, communication, travel, business reports, office organization, and the financial and legal duties of the secretary combined with the application of theory in a university office. One class meeting and six clock-hours of work experience each week. Prerequisites: Shorthand 115, Typewriting 107, and Office Practice 129 or equivalents.

*210. OFFICE MACHINES
Spring, 2 hours
Study and use of such office machines, as dictaphone, mimeograph, calculator, etc. By arrangement.

230. METHODS IN TEACHING BUSINESS SUBJECTS
Fall, 3 hours
Study of methods and techniques of teaching business subjects in the high school with special emphasis on typewriting, shorthand, bookkeeping, and general business. Required for business teachers.

240. SUPERVISED TEACHING IN BUSINESS EDUCATION
(Given each quarter) 6 hours
Prerequisite: Methods 230. Required for business teachers.

245. PROBLEMS IN BUSINESS EDUCATION
1-5 hours
Open to properly qualified seniors. By arrangement.

HISTORY AND POLITICAL SCIENCE

PROFESSOR BINKLEY, Chairman; PROFESSOR HILLIARD;
ASSISTANT PROFESSOR HICKMAN

The history courses stress the evolution of human institutions with a view to developing an understanding of our present civilization. Students majoring in history must take courses in both American and European history and electives in the allied social sciences, particularly political science, sociology, psychology and economics. It is the policy of the department to recommend no graduate for the teaching of history who has not taken nine hours in American government.

*Not given in 1951-1952.
The most appropriate sequence of courses for a major in history would be History of Western Europe 110, 111, 112; History of the United States 113, 114, 115; History of England 104, 105, 106; Recent American History 216, 217, 218; or Constitutional History of the United States 224, 225, 226; and Recent European History 251, 252, 253. In addition to the 36 hours required for the major in history the student must complete nine hours in American government.

The courses in political science are designed to prepare the student for the intelligent performance of the functions of citizenship, for entrance into public service, for the study of law, and for graduate study in this field. Those majoring in political science are advised also to pursue courses in sociology, psychology, history and economics.

**HISTORY**

104. **ENGLISH HISTORY TO 1603**  
   Fall, 3 hours

105. **ENGLISH HISTORY: 1603-1815**  
   Winter, 3 hours

106. **ENGLISH HISTORY: 1815 TO THE PRESENT TIME**  
   Spring, 3 hours
   A general introductory study of the English people in their political, social and institutional development, followed by a survey of the growth of the British Empire and evolution of the British Commonwealth of Nations.

110. **HISTORY OF WESTERN EUROPE TO 1517**  
   Fall, 3 hours

111. **HISTORY OF WESTERN EUROPE: 1517 TO 1815**  
   Winter, 3 hours

112. **HISTORY OF WESTERN EUROPE: 1815 TO THE PRESENT TIME**  
   Spring, 3 hours
   An introductory survey of European history. The Mediaeval background, the Renaissance, the rise of international rivalry, the World War and its aftermath. Open to freshmen.

113. **HISTORY OF THE UNITED STATES TO 1829**  
   Fall, 3 hours

114. **HISTORY OF THE UNITED STATES: 1829 TO 1876**  
   Winter, 3 hours

115. **HISTORY OF THE UNITED STATES: 1876 TO THE PRESENT TIME**  
   Spring, 3 hours
   A study of the political, social and economic development of the United States from the colonial period to the present time. Not open to freshmen.

212. **HISTORY OF OHIO**  
   Summer, 3 hours
   The political and cultural evolution of the state from prehistoric times to the present. Prerequisite: History 113, 114, 115, or consent of the instructor.
216. RECENT AMERICAN HISTORY Fall, 2 hours
217. RECENT AMERICAN HISTORY Winter, 2 hours
218. RECENT AMERICAN HISTORY Spring, 2 hours
An investigation and intensive study of some of the major movements of the United States since the Civil War. Prerequisite: History 113, 114, 115.

*224. CONSTITUTIONAL HISTORY OF THE UNITED STATES Fall, 2 hours
*225. CONSTITUTIONAL HISTORY OF THE UNITED STATES Winter, 2 hours
*226. CONSTITUTIONAL HISTORY OF THE UNITED STATES Spring, 2 hours
A survey of the constitutional development of the United States from the colonial period to the present time. Prerequisite: Political science 101, 102, 103, and History 113, 114, 115.

*245. AMERICAN FOREIGN RELATIONS Fall, 3 hours
*246. AMERICAN FOREIGN RELATIONS Winter, 3 hours
The inception, development and present interpretation of the outstanding foreign policies of the United States; the emergence of the United States as a world power; the trend from isolationism. From the American Revolution through the Cold War.

251. RECENT EUROPEAN HISTORY Fall, 2 hours
252. RECENT EUROPEAN HISTORY Winter, 2 hours
253. RECENT EUROPEAN HISTORY Spring, 2 hours
Three consecutive courses on the history of Europe since World War I, including the rise and fall of the Axis dictatorships, and the search for international security. Prerequisite: History 110, 111, 112.

254. HISTORY PROBLEMS Individual investigation on a specific problem. Open to qualified seniors majoring in history. Any quarter.

POLITICAL SCIENCE

101. AMERICAN GOVERNMENT Fall, 3 hours
102. AMERICAN GOVERNMENT Winter, 3 hours
103. AMERICAN GOVERNMENT Spring, 3 hours
A study of the origin, development, structure, and functions of national and state governments in the United States. Sophomore course.

*Not given in 1951-1952.
<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
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<tbody>
<tr>
<td>104</td>
<td>INTRODUCTION TO POLITICAL SCIENCE</td>
<td>Fall</td>
<td>2 hours</td>
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<tr>
<td>105</td>
<td>INTRODUCTION TO POLITICAL SCIENCE</td>
<td>Winter</td>
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<td>106</td>
<td>INTRODUCTION TO POLITICAL SCIENCE</td>
<td>Spring</td>
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<td></td>
<td>An approach to the field of political science through the study of current problems both domestic and foreign. Cannot be used as partial requirements of eighteen hours in social science.</td>
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<td>204</td>
<td>MUNICIPAL GOVERNMENT</td>
<td>Winter</td>
<td>3 hours</td>
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<td>A study of the principal problems of municipal government in the United States. Prerequisite: Political Science 101, 102, 103.</td>
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<tr>
<td>205</td>
<td>MUNICIPAL GOVERNMENT</td>
<td>Winter</td>
<td>5 hours</td>
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<td>A course designed especially for students of civil engineering.</td>
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<tr>
<td>208</td>
<td>COMPARATIVE GOVERNMENT</td>
<td>Fall</td>
<td>3 hours</td>
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<td>209</td>
<td>COMPARATIVE GOVERNMENT</td>
<td>Winter</td>
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<td></td>
<td>A study of the governments of England, France, Germany, Italy, Switzerland, and Russia. Prerequisite: Political Science 101, 102, 103, or the consent of the instructor.</td>
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<td>210</td>
<td>AMERICAN POLITICAL PARTIES</td>
<td>Fall</td>
<td>3 hours</td>
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<td>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.</td>
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<td>*212</td>
<td>AMERICAN POLITICAL THEORIES</td>
<td>Spring</td>
<td>3 hours</td>
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<td>The development of American political theories from the colonial period to the present with a view to providing a basis for rational approach to the solution of our present political problems. Prerequisite: Nine hours of political science or the consent of the instructor.</td>
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<td>214</td>
<td>PUBLIC ADMINISTRATION</td>
<td>Spring</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>215</td>
<td>INTERNATIONAL RELATIONS</td>
<td>Fall</td>
<td>3 hours</td>
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<td></td>
<td>A study of the forces which determine the foreign policies of the major world powers, followed by an introduction to diplomatic procedures and duties, organization and function of foreign offices, international negotiation and international law.</td>
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<td>216</td>
<td>INTERNATIONAL RELATIONS</td>
<td>Winter</td>
<td>3 hours</td>
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*Not given in 1951-1952.*
217. INTERNATIONAL RELATIONS  
Spring, 3 hours  
A study of the economic factors behind contemporary international conflicts. Imperialism of 1870 to the Point Four Program. Emphasis on the period from 1929 through the Second World War, with an analysis of the background of the Marshall Plan.

230. EUROPEAN POLITICAL THEORIES  
Spring, 3 hours  
A survey of the development of political philosophy from the period of Ancient Greece to modern times. Prerequisite: Political Science 101, 102, 103, or the consent of the instructor.

*231. SOCIAL FORCES IN AMERICAN GOVERNMENT  
Fall, 3 hours  
An investigation of the part played by interest and pressure groups and ideologies in the determination and execution of public policies.

251. POLITICAL SCIENCE PROBLEMS  
3 hours  
Individual investigation in the field of political science. Open to qualified seniors majoring in this department. Any quarter.

PSYCHOLOGY AND SOCIOLOGY

ASSISTANT PROFESSOR MARKLE, Chairman; MRS. STATON

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

An interdepartmental major of 47 hours is offered as follows: Psychology 101, 102, 104, 210; Sociology 151, 153, 212; and Philosophy 201, 203 and six hours to be selected from the courses offered in Philosophy, Psychology, or Sociology.

Two majors are being offered in this department, 36 hours being required for either Psychology or Sociology. Sociology majors must include Psychology 101 and 104.

A minor in Psychology consists of 24 hours of Psychology. A minor in Sociology consists of 24 hours with Psychology 101 being required in addition.

PSYCHOLOGY

101. GENERAL PSYCHOLOGY  
Fall, 5 hours  
A general survey of psychology facts and principles stressing human experience and behavior. Prerequisite: One year of Zoology.

*Not given in 1951-1952.
102. APPLIED PSYCHOLOGY  
Winter, 5 hours  
The application of psychological principles to problems of modern life; clinical practice; personal work; home life, education; industry; business law and criminology; medicine, social reform. Prerequisite: Psychology 101.

104. SOCIAL PSYCHOLOGY  
Spring, 5 hours  
A study of social behavior and social adjustment. The effect of the social environment upon the development of personality. The relation of social and psychological laws to problems of the community. Prerequisite: Psychology 101.

135. EDUCATIONAL PSYCHOLOGY  
Winter, 3 hours  
(See Division of Teacher Education.)

136. EDUCATIONAL PSYCHOLOGY  
Spring, 3 hours  
(See Division of Teacher Education.)

203. PSYCHOLOGY OF RELIGION  
Fall, 3 hours  
A study of the religious behavior of mankind, the need of the spiritual in man's adjustment to his world, and the close correlation of the teachings of Jesus and the tenets of modern scientific psychology. Prerequisite: General Psychology 101.

210. ABNORMAL PSYCHOLOGY  
Spring, 5 hours  
This course is an introduction to the study of the problems of mental health and is designed to meet the needs of students of education and pre-professional courses. Prerequisite: Psychology 101.

*211. PSYCHOLOGY OF BUSINESS AND INDUSTRY  
Spring, 3 hours  
A study of the principles and applications of psychology as used in business, industry and personnel work. Prerequisite: Psychology 101.

212. PSYCHOLOGICAL PROBLEMS  
1-4 hours  
Minor investigation. Open only to qualified seniors. By arrangement.

*213. PROBLEMS OF PERSONALITY  
Fall, 3 hours  
A study of the various factors, types, adjustments, and methods of improving human personality. Prerequisite: Psychology 101.

*215. PSYCHOLOGY OF COUNSELING  
Spring, 3 hours  
A study of the basic principles, purposes, and psychological problems involved in interviewing; discussion of interests and problems of members of the class; special purpose interviews and counseling, recording and evaluation of facts; reporting and discussion of actual interviews. Prerequisite: General Psychology 101.

*Not given in 1951-1952.
151. GENERAL SOCIOLOGY
   A study of the phenomena of human relations, including the nature
   and import of sociology, social evolution, socialization, social ideals, and
   social control. Serious consideration is given to the question, “How does
   human life in general become what it is, what values does it actually
   contain, and under what conditions can those values be more completely
   realized?” Not open to freshmen.

153. SOCIAL PATHOLOGY
   Social pathology, as it concerns our own society including the study
   of such problems as child labor, poverty, crime, the family, public health,
   etc.

206. SOCIAL PROBLEMS
   Minor investigation. Open only to qualified seniors. By arrangement.

211. CRIMINOLOGY
   A consideration of the problems of crimes and criminals. Special
   attention is given to the factors conducive to the making of criminals,
   together with a suggested program of treatment and prevention. The
   work also includes some study of the history of punishment and penal
   institutions.

212. THE FAMILY
   A discussion course on the history of marriage and the family. A
   detailed study of the normal family, the conditions which interfere with
   the normal functioning of the family, and the means of social control.

*213. SOCIAL CONTROL
   A study of the methods and agencies of social control in contemporary
   society. Special emphasis given to propaganda and censorship, reward and punishment, education and indoctrination.

214. RURAL SOCIOLOGY
   Composition of rural population, the rural family and standards of
   living, rural institutions, and social processes, fundamental differences
   between rural and urban groups.

*216. POPULATION PROBLEMS
   The composition of population according to sex, age, color; its distribution in the territory of the United States; fertility, mortality. The problems of selection, birth control, standard of living, and migration are discussed.

*217. RACIAL AND CULTURAL MINORITIES
   A study of the American Negro, the Jewish community, and immigrant groups in the United States, and their assimilation into the dominant culture.

*Not given in 1951-1952.
219. SOCIOLOGY OF CONFLICT  
Spring, 3 hours  
A study of conflict of human behavior and in social change; class, race, and industrial conflict in contemporary society; sociological aspects of war.

220. CULTURAL ANTHROPOLOGY  
Winter, 3 hours  
A study of preliterate culture, its relation to geography, biology, and psychology. Study of primitive religion, family patterns, and cultural variations.

228. CONSUMER ECONOMICS  
Spring, 3 hours  
For description of course refer to Department of Economics. Course may be used for credit toward sociology.

RELIGION AND PHILOSOPHY

ASSOCIATE PROFESSOR TINSLER, Chairman; ASSISTANT PROFESSOR MARKLE

These studies are intended to prepare students for graduate work and enable them to understand more effectively the spiritual needs of their home communities and also aid them to reconstruct, constantly, their own concepts in the light of the high religious and ethical idealism of the prophets and Jesus.

An interdepartmental major of 47 hours in this field is offered with the following courses: Biblical Literature and Religion 151, 152, 153; 201, 210, 232; Philosophy 201, 203; Psychology 101 and Sociology 151, 212, or 213, plus six hours of electives within the department. A minor in this department consists of 24 hours in Biblical Literature and Religion or in Philosophy.

BIBLICAL LITERATURE AND RELIGION

101. BIBLE CUSTOMS AND MANNERS  
Foll, 2 hours  
Presents the background and local color of the Biblical narrative, with special attention being given to the social customs and folkways peculiar to the Near East.

104. INTRODUCTION TO RELIGION  
Winter, 2 hours  
Designed for freshmen; presenting religion as the vital experience and growing conviction of real people facing real problems in real life situations, with a careful examination of the contrast between the religion of primitive and of advanced cultures.

* Not given in 1951-1952
105. THE MESSAGE OF JESUS CHRIST
   Spring, 2 hours
   Special attention is given to the personal and social application of
   His teachings. A course in practical principles rather than in theology.

121. INTRODUCTION TO RELIGIOUS EDUCATION
   Fall, 2 hours
   With attention to the historic development of religious education
   from Bible times through the Early and Mediaeval church to the present
   day. An investigation of the philosophic and psychological foundations
   upon which an adequate educational program in the church can be de-
   veloped.

122. THE GOALS AND STANDARDS OF RELIGIOUS EDUCATION
   Winter, 2 hours
   A study of the aims and objectives for which Religious Education
   is undertaken and the standards by which the program is to be measured
   and evaluated.

123. METHODS AND MATERIALS FOR RELIGIOUS EDUCATION
   Spring, 2 hours
   A study of the means to the ends suggested in course 121, with at-
   tention to the psychology of various age groups and a study of existing
   materials and the best methods of using them.

124. AGENCIES OF RELIGIOUS EDUCATION
   Fall, 3 hours
   A survey course covering the various agencies through which the
   work of religious education is done. Among agencies considered are:
   the Sunday School, the Vacation Church School, the Week-Day Church
   School, the Summer Camp and Institute, and the Church College.

125. WORSHIP AND MUSIC IN RELIGIOUS EDUCATION
   Spring, 3 hours
   A course designed to cover chiefly the principles of worship includ-
   ing the place of music as a contributing factor. Some emphasis on
   hymnology will also be given.

126. AUDIO-VISUAL AID IN RELIGIOUS EDUCATION
   Winter, 3 hours
   A study of the various audio and visual aids with attention given
   to using them as tools for teaching. Students will be given some ex-
   perience in the care and use of such equipment as sound movies, film
   strips, opaque projectors, wire recorders and amplifying systems.

127. STUDENT TEACHING IN RELIGIOUS EDUCATION
   Each Quarter, 1-3 hours
   A course in teaching in which the students will have an opportunity
   to teach in Sunday School both in town and rural churches. This teach-
   ing will be done under careful supervision. Prerequisite: courses 121,
   122, 123.
151. OLD TESTAMENT HISTORY  Fall, 3 hours
The cultural and religious history of the Hebrew People from early
times through the reign of King Solomon, with attention to contempo-
rary history and culture in neighboring lands.

152. OLD TESTAMENT HISTORY  Winter, 3 hours
From the Division of the Hebrew Kingdom, through the exile, re-
struction, Maccabean period to the death of King Herod, with special
emphasis on the teaching of the prophets and growing ethical and re-
ligious concepts which become the background of Jesus’ life and teach-
ings.

153. NEW TESTAMENT HISTORY  Spring, 3 hours
A study of the life of Jesus, together with consideration of the
social and political setting into which He was born and its relation to
His life and teaching. Includes a brief study of the founding of the
church and the writing and canonizing of the New Testament.

201. THE CHRISTIAN CHURCH IN HISTORY  Winter, 3 hours
A study of the Church in history, with consideration of the signifi-
cant individuals and events in the Christian Church from the Apostolic
Age to the present day and their relation to the course of general his-

tory.

203. PSYCHOLOGY OF RELIGION  Fall, 3 hours
For description of courses refer to listing in Department of Psy-
chology and Sociology. Applicable toward a major or minor in religion.

210. COMPARATIVE RELIGION  Spring, 3 hours
The fundamental religious beliefs, customs and institutions of the
major living religions. A knowledge of the general aim and nature of
religion is sought.

212. PHILOSOPHY OF RELIGION  3 hours
A constructive study and discussion of the philosophy underlying
such religious concepts as God, soul, freedom, prayer, destiny, evil, and
immortality. Credit applicable in either philosophy or religion. Sched-
uled upon sufficient demand.

232. THE LIFE AND LETTERS OF ST. PAUL  Fall, 3 hours
A study of the development of the early church and the relation
of St. Paul to this work as revealed in the Book of Acts and in the Let-
ters of Paul.

224. SPECIAL RELIGIOUS PROBLEMS  1 to 3 hours
Research or special projects for those prepared to do special work
in the field of religion. Given by special arrangement.

Courses 201, 210, 232 are sometimes alternated with Philosophy
204, 205 and 208.
PHILOSOPHY

201. INTRODUCTION TO PHILOSOPHY
   Fall, 5 hours
   Presenting philosophy in the light of its main task of "integrating
   the piecemeal knowledge of the day and giving men a comprehensive
   view of life and the world." A view of man in relationship to the living
   issues of today.

202. LOGIC
   Winter, 5 hours
   The study of "how to think straight." A constructive study of mental
   processes; fallacies in logic; analysis of argument and proof; deductive
   and inductive reasoning; the proper organization and presentation
   of ideas; the limitation and the expression of knowledge.

203. ETHICS
   Spring, 5 hours
   Morality and the problems of conduct. Evaluation of proposed
   standards of judgments; the search for a suitable standard and its
   application to personal, social and political problems. Especially designed
   for teachers and pre-professional students, but open to all junior and
   senior students.

204. HISTORY OF PHILOSOPHY
   Fall, 3 hours
   A study of the views of the philosophers of the past, beginning with
   the early Greeks, presenting them as pioneers in the unexplored fields of
   thought and analyzing their contributions to contemporary concepts.
   Alternates with course 232.

205. CONTEMPORARY SCHOOLS OF PHILOSOPHY
   Winter, 3 hours
   A study of current philosophies as they face and attempt to ade-
   quately meet the chief problems of life today. Alternates with course
   201 in Religion.

208. CONSTRUCTING A PERSONAL PHILOSOPHY
   Spring, 3 hours
   Looking back over the insights gained in college into the natural and
   social sciences and asking seriously, "What of it?", and looking forward
   to post-college experiences and asking, "What now?" The problems
   of constructing a personal philosophy—an adequate world-view and
   concept of man's place in this world. Alternates with course 210. Pre-
   requisite: Philosophy 201.

212. PHILOSOPHY OF RELIGION
   3 hours
   A constructive study and discussion of the philosophy underlying
   such religious concepts as God, soul, freedom, prayer, destiny, evil, and
   immortality. Credit applicable to either philosophy or religion. Scheduled
   upon sufficient demand.

220. SPECIAL PROBLEMS IN PHILOSOPHY
   1 to 3 hours
   Research or special projects for those prepared to do special work
   in philosophy. Given by special arrangement.
Division IV. Physical Education and Applied Arts

Professor Lamb, Chairman

Departments: Health and Physical Education, Home Economics, and Industrial Arts

Health and Physical Education

Professor Lamb, Chairman; Mr. English; Mrs. Pickering

Some form of physical activity is required of all students during their first two years in the University. The nature and amount of 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 both theoretical and practical. A strong intramural sports program is designed to provide some form of activity for nearly every student on the campus.

Required Courses

Physical education two hours a week. One credit hour each quarter for the first six quarters.

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 interest 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 gymnasium afford exceptional facilities for an intramural program that is sufficiently broad and varied to offer some form of activity for practically all University students. In their proper seasons, the following sports are offered: football, basketball, free throwing, baseball, speedball, handball, playground ball, volleyball, tennis, wrestling, boxing, track, touch football, golf, horseshoes and swimming.

Professional Curriculum for Teachers

For students who wish to specialize in the field of health and physical education, a four-year professional curriculum is offered, leading to
the degree of Bachelor of Science in Physical Education, and to a special state four-year provisional certificate. For curriculum and description of courses see Division of Teacher Education in this bulletin.

HOME ECONOMICS
(Staff to be supplied)

Preparations are now being made for the development of a Department of Home Economics which will be prepared to administer its course offerings, beginning with the Fall quarter, 1951.

The purpose of the courses of this department will be to give adequate instruction and practical training for women who are planning to enter the field of nursing or do social service work, or who want to become better prepared for home making.

INDUSTRIAL ARTS
PROFESSOR KITTLE

The Department of Industrial Arts offers service for all students, especially those who are interested in teaching, industry, and engineering. The courses are designed to cover the basic skills and practices in working with woods, metals, and ceramics; also, to introduce the student to materials of industry, practical electricity, crafts and hobbies, and machine shop.

See Division of Teacher Education for description of courses in Industrial Arts.

Division V. Teacher Education

HARRY H. VANNORSDALI, Chairman and Director

DEPARTMENTS

SECONDARY EDUCATION: Professor Vannorsdall
ELEMENTARY EDUCATION: Assistant Professor Hanson
BUSINESS EDUCATION: Mr. McKitrick, Instructor
HEALTH AND PHYSICAL EDUCATION: Professor Lamb
INDUSTRIAL ARTS EDUCATION: Professor Kittle
PUBLIC SCHOOL MUSIC: Professor Roider

The Teacher Education work at Ohio Northern University, organized within the College of Liberal Arts, is designed to aid its students in forming clear conceptions of the dignity and importance of the teach-
er'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.

For many years this institution has been a popular place for teachers to attend for professional study. Here for more than three-quarters of a century 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, and the public lectures will prove an inspiring influence in the life of any student.

The Ohio Northern University is accredited by the State Department of Education to prepare teachers in the following fields: Elementary, High School, Business Education, Industrial Arts, Public School Music and Health and Physical Education.

Students who are planning to teach should consult with the Director of Teacher Education as early in their college course as possible.

APPOINTMENT BUREAU

This bureau assists Ohio Northern students in securing teaching positions. In the past year many graduates and former students were brought in 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.

No charge is made for the service of this bureau, but only teachers of merit will be registered. Address The Appointment Bureau.

NATIONAL TEACHERS EXAMINATIONS

The National Teachers Examinations are conducted yearly at Ohio Northern University, for teachers in service or in training. Teachers who are interested in professional advancement should take advantage of this opportunity.

GRADUATE RECORD EXAMINATIONS

Teachers who are planning to enter Graduate Schools are advised to take the Graduate Record Examination administered at Ohio Northern University. Since many Graduate Schools require this examination, students will find it profitable to take the examination before applying for admission.
ELEMENTARY EDUCATION

TWO-YEAR CADET CURRICULUM

An extreme emergency at the present time permits cadet certification with two years preparation. To be eligible for such a certificate the student must have completed 95 quarter hours selected from the three-year diploma curriculum outlined below. He must complete the subjects which are starred and enough others from the outline to make 95 quarter hours. The state cadet four-year provisional certificate will be issued upon the satisfactory completion of the required studies.

THREE-YEAR DIPLOMA CURRICULUM

This curriculum requires the completion of 140 quarter hours with a scholastic point hour ratio of at least 1.00. The state elementary four-year provisional certificate will be issued upon the completion of the required studies.

FOUR YEAR DEGREE CURRICULUM

Students may obtain the degree, Bachelor of Science in Elementary Education by completing the following requirements:

1. Complete all requirements for the Three-Year Diploma Curriculum.

2. Complete additional academic and professional subjects from the "200" courses to make 186 quarter hours with scholastic point hour ratio of at least 1.00. Nine hours of Bible are required.

The Ada public schools together with other school systems within this region comprise our training facilities for observation and student teaching.

THREE-YEAR DIPLOMA CURRICULUM

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Education* 101</td>
<td>Physical Education* 102</td>
<td>Physical Education* 103</td>
</tr>
<tr>
<td>Biology* 104</td>
<td>Biology* 105</td>
<td>Biology* 106</td>
</tr>
<tr>
<td>English* 101</td>
<td>Children's Lit.* 128</td>
<td>English* 102</td>
</tr>
<tr>
<td>Hygiene* 115</td>
<td>Health Education* 117</td>
<td>Health Education* 101</td>
</tr>
<tr>
<td>Music Literature* 108</td>
<td>Intro. to Music* 109</td>
<td>Music Education* 110</td>
</tr>
<tr>
<td>Public School Art* 101</td>
<td>Public School Art* 102</td>
<td>Public School Art* 103</td>
</tr>
</tbody>
</table>

| **SECOND YEAR**         |                          |                            |
| Physical Education* 104 | Physical Education* 105  | Physical Education* 106    |
| General Psychology* 101 | Ed. Psychology* 125      | Ed. Psychology* 126        |
| American History 113    | American History 114     | American History 115       |
| English (Elective)      | English (Elective)       | English (Elective)         |
| Teach. of Reading* 240  | Teach. of Reading* 241   | Principles and Practices   |
| Language-Arts* 239      | Art (Ap. Design)* 127    | of Plays & Games* 156      |

Elective
SECONDARY EDUCATION

Requirements for the degree, Bachelor of Science in Education

A. Curriculum requirements: The curriculum outlined below contains the professional and academic subjects required for the degree, Bachelor of Science in Education and the state secondary four-year provisional certificate.

FOUR-YEAR CURRICULUM FOR HIGH SCHOOL TEACHERS

FIRST YEAR

FALL QUARTER
- Physical Education 101 1
- English 101 3
- Biology 101 or 104 3
- Electives Major and Minor* 9

WINTER QUARTER
- Physical Education 102 3
- English 102 3
- Biology 102 or 105 3
- Electives Major and Minor 9

SECOND YEAR

FALL QUARTER
- American History 113 3
- English (Elective) 3
- General Psychology 101 5
- Electives Major and Minor 4

WINTER QUARTER
- Physical Education 105 3
- American History 114 3
- English (Elective) 3
- Ed. Psychology 135 3
- Electives Major and Minor 6

THIRD YEAR

FALL QUARTER
- School Admin. 252 5
- Bible 151 3
- Electives Major and Minor 8

WINTER QUARTER
- Electives Major and Minor 16

FOURTH YEAR

FALL QUARTER
- Special Methods 250 3
- Student Teaching** 270 6
- Electives Major and Minor 7

*Major and minors are selected under the guidance of the student's adviser.
**Student teaching and special methods offered during Fall, Winter and Spring Quarters.

B. Graduation requirements. The student must complete:
1. The curriculum as outlined above.
2. Complete major and minor subjects as outlined in section C below.
3. Complete 186 quarter hours including 6 quarter hours of Physical Education with an average scholarship rating of at least one quality point for each scheduled hour.

### C. MAJOR AND MINOR SUBJECTS

All candidates for the degree of Bachelor of Science in Education or Bachelor of Arts who expect to teach must have an academic teaching major of 36 quarter hours and two minors of 24 quarter hours each. This does not apply to students majoring in Business Education, Elementary Education, Industrial Arts, Public School Music, and Health and Physical Education. Students should confer with their advisers before electing their major and minor subjects.

The Division of Certification of the State Department of Education specifies the following minimum requirements in the various teaching fields for the provisional high school certificate.

<table>
<thead>
<tr>
<th>A. Biological Science (Pre-requisites 1 high school unit)</th>
<th>15 sem. hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Zoology</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>2. Botany (Or General Biology, 6 sem. hrs.)</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>3. Pertinent electives</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>B. Bookkeeping</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>(Bookkeeping, accounting and methods)</td>
<td>--------------</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>C. Bookkeeping—Social Business</td>
<td>20 sem. hrs.</td>
</tr>
<tr>
<td>1. Bookkeeping and Accounting</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>2. Business Law</td>
<td>--------------</td>
</tr>
<tr>
<td>3. Economics Geography</td>
<td>--------------</td>
</tr>
<tr>
<td>4. Economics</td>
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</tr>
<tr>
<td>5. Business Organization</td>
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</tr>
<tr>
<td>6. Excess in above or pertinent electives</td>
<td>11 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
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</tr>
<tr>
<td>D. Earth Science (Prerequisite 1 high school unit)</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>1. Geology</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>2. Geography</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>3. Pertinent electives or excess in above</td>
<td>9 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>E. English (Prerequisite 3 high school units)</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>1. English Composition</td>
<td>6 sem. hrs.</td>
</tr>
<tr>
<td>2. English and American Poetry</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>3. English and American Prose</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>4. Pertinent electives or excess in above</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>F. General Science</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>1. Physics</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>2. Chemistry</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>4. Other science electives or excess in above</td>
<td>6 sem. hrs.</td>
</tr>
<tr>
<td>(General science will also be added to a certificate on the basis of an integrated base course and pertinent electives totaling 15 sem. hrs.)</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
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</tr>
<tr>
<td>G. History (prerequisite 2 high school units)</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>1. World History</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>3. Political Science</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>4. Pertinent electives or excess in above</td>
<td>6 sem. hrs.</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>H. Industrial Arts</td>
<td>24 sem. hrs.</td>
</tr>
<tr>
<td>Well distributed over the following areas:</td>
<td>--------------</td>
</tr>
<tr>
<td>1. Graphic Arts (Including drawing, planning, printing, photography, and duplicating)</td>
<td></td>
</tr>
<tr>
<td>2. Woods (Including furniture construction carpentry and wood finishing)</td>
<td></td>
</tr>
<tr>
<td>3. Metals (Including sheet metal, art metal, foundry and machine metals work)</td>
<td></td>
</tr>
<tr>
<td>4. Applied Electricity (Communication, transportation and power)</td>
<td></td>
</tr>
<tr>
<td>5. Ceramics (Clay and concrete)</td>
<td>--------------</td>
</tr>
<tr>
<td>6. Methods and Organization</td>
<td>--------------</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>I. Language (Prerequisite 2 high school units)</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>15 semester hours in the language in which certification is desired)</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>J. Mathematics (Prerequisite 2 high school units)</td>
<td>15 sem. hrs.</td>
</tr>
<tr>
<td>1. College Algebra</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>2. College Geometry</td>
<td>3 sem. hrs.</td>
</tr>
</tbody>
</table>
3. Trigonometry 3 sem. hrs.
4. Pertinent electives or excess in above 6 sem. hrs.

K. Music—Instrumental 24 sem. hrs.
(Valid in both elementary and high school).
1. Harmony (Written, oral and keyboard) 10 sem. hrs.
2. History and Appreciation 4 sem. hrs.
3. Applied music (Orchestrbral instruments) 4 sem. hrs.
4. Music education, including instrumenim and conducting 6 sem. hrs.
5. Membership in band or orchestra

L. Music—Vocal 24 sem. hrs.
(Valid in both elementary and high school).
1. Harmony (written, oral and keyboard, sight singing and ear training) 10 sem. hrs.
2. History and Appreciation 4 sem. hrs.
3. Applied music—piano or singing or both 4 sem. hrs.
4. Music education, including methods for elementary and high school observation, participation and conducting 6 sem. hrs.
5. Membership in some choral group

M. Physical Education 24 sem. hrs.
1. Principles, Organizations and Administration of Physical Education, including Athletic and Recreation 3 sem. hrs.
2. Activities, skills and methods of teaching rhythms, games of low organization, stunts, tumbling, apparatus, recreational group activities, and others 4 sem. hrs.
3. Activities, Skills and Methods of Teaching Athletic Sports, including football, basketball, baseball, track, tennis, golf, swimming, soccer, speedball, volleyball, and others commonly used in secondary and college programs 4 sem. hrs.
4. Methods and Materials in Teaching Health, including evaluation and selection of health material 3 sem. hrs.
5. Health and Hygiene, including Personal Health and Living, Community Health, Mental Hygiene, Social Hygiene, Foods, and Nutrition, Sanitation, Disease Control, Health Counseling, Athletic Injuries and First Aid 4 sem. hrs.
6. Human Anatomy and Physiology 6 sem. hrs.

N. Physical Science (Pre-requisite 1 high school unit) 15 sem. hrs.
1. Physics 6 sem. hrs.
2. Chemistry 6 sem. hrs.
3. Pertinent electives or excess in above 3 sem. hrs.

O. Salesmanship—Merchandising 20 sem. hrs.
1. Marketing Principles 3 sem. hrs.
2. Salesmanship 3 sem. hrs.
3. Advertising 4 sem. hrs.
4. Retailing 5 sem. hrs.
5. Merchandising 6 sem. hrs.

P. Science (Comprehensive Major) 40 sem. hrs.
Integrated base course plus pertinent electives of forty semester hours well distributed over the following areas:
1. Physics
2. Chemistry
3. Zoology
4. Botany
5. Geology
6. Astronomy

Q. Social Science 15 sem. hrs.
(Prerequisite one high school unit)
1. Economics 3 sem. hrs.
2. Sociology 3 sem. hrs.
3. Industrial Geography 3 sem. hrs.
4. Pertinent electives or excess in above 6 sem. hrs.

R. Social Studies (Comprehensive Major) 40 sem. hrs.
Integrated base course plus pertinent electives or forty semester hours well distributed over the following areas:
1. Economics
2. Sociology
3. Modern European History
4. American History
5. Principles of Geography
6. Political Science

S. Speech 15 sem. hrs.
Distributed over the following areas:
1. Speech fundamentals
2. Interpretative reading
3. Speech correction and voice
4. Dramatic production
5. Public address and discussion
6. Excess in above or pertinent electives 5 sem. hrs.

T. Stenography—Typing 20 sem. hrs.
1. Shorthand 9 sem. hrs.
2. Typing 3 sem. hrs.
4. Office practice
5. Business English
6. Excess in above or pertinent electives 6 sem. hrs.
V. Typing
(Typing and Methods)

Any of the above subjects appearing on a certificate issued by the State of Ohio shall be valid for teaching that subject or any subject listed as a required course in the above schedule.

The Division of Certification of the State Department of Education specifies the following minimum requirements for the provisional special certificate.

A. Business Education

<table>
<thead>
<tr>
<th>Area</th>
<th>Minimum Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stenographic Typing</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>Bookkeeping</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>Salesmanship</td>
<td>3 sem. hrs.</td>
</tr>
<tr>
<td>Industrial Arts</td>
<td>45 sem. hrs.</td>
</tr>
</tbody>
</table>

B. Industrial Arts

Well distributed over the following areas:

1. Graphic Arts
   - Drawing
   - Photography
   - Duplicating
2. Woods
   - Furniture Construction
   - Carpentry
3. Metals
   - Sheet Metal
   - Machine Metal Work
4. Applied Electricity
   - Communication
   - Transportation
5. Ceramics
   - Clay and Concrete
6. Methods and Organization

C. Music

1. Instrumental
   - Methods, Materials and Observation
   - Student Teaching
   - Conducting
   - Instrumental Classes
   - Theory
   - Applied Music
   - History, Appreciation and Literature
2. Vocal
   - 53 sem. hrs.

D. Physical Education

1. Principles, Organization, and Administration of Physical Education
2. Activities, Skills and Methods of Teaching Rhythms
3. Activities, Skills and Methods of Teaching Athletic Sports
4. Methods and Materials in Teaching Health
5. Health and Hygiene

After September 1, 1939, teaching subjects will not be designated as majors or minors. The certificate will, however, indicate the number of hours of preparation in each subject listed thereon.
This curriculum designed for students who wish to prepare themselves for teaching business education leads, upon completion, to the degree of Bachelor of Science in Education and the state high school provisional certificate.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 101</td>
<td>Physical Education 102</td>
<td>Physical Education 103</td>
</tr>
<tr>
<td>English Composition 101</td>
<td>English Composition 102</td>
<td>Eng. Composition 102a</td>
</tr>
<tr>
<td>Biology 101 or 104</td>
<td>Biology 102 or 105</td>
<td>Biology 103 or 106</td>
</tr>
<tr>
<td>Business Org. 103</td>
<td>Business Org. 104</td>
<td>Business Org. 105</td>
</tr>
<tr>
<td>Shorthand 110 or 111</td>
<td>Shorthand 111 or 112</td>
<td>Shorthand 112 or 116</td>
</tr>
<tr>
<td>Typewriting 101 or 102</td>
<td>Typewriting 102 or 103</td>
<td>Typewriting 103</td>
</tr>
<tr>
<td>Political Sci. or Speech</td>
<td>Political Sci. or Speech</td>
<td>Political Sci. or Speech</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Education 104</td>
<td>Physical Education 105</td>
<td>Physical Education 106</td>
</tr>
<tr>
<td>Psychology 101</td>
<td>Ed. Psychology 105</td>
<td>Ed. Psychology 136</td>
</tr>
<tr>
<td>Accounting 151</td>
<td>Accounting 132</td>
<td>Accounting 133</td>
</tr>
<tr>
<td>Shorthand, Dictation and Transcription 115*</td>
<td>Office Practice 109</td>
<td>Office Practice 130</td>
</tr>
<tr>
<td>History 113</td>
<td>English (Elective)</td>
<td>English (Elective)</td>
</tr>
<tr>
<td>Elective 2-3</td>
<td>History 114</td>
<td>History 115</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 121</td>
<td>Economics 122</td>
<td>Economics 123</td>
</tr>
<tr>
<td>Marketing 241</td>
<td>Advertising 245</td>
<td>Salesmanship 246</td>
</tr>
<tr>
<td>Principles of High School Teaching 208</td>
<td>School Admin. 252</td>
<td>History and Philosophy of Education 238</td>
</tr>
<tr>
<td>Bible 151</td>
<td>Bible 152</td>
<td>Business Writing 238</td>
</tr>
<tr>
<td>Elective 1</td>
<td>Elective</td>
<td>Bible 152</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Law 221</td>
<td>Business Law 222</td>
<td>Business Law 223</td>
</tr>
<tr>
<td>Methods in Teaching</td>
<td>Student Teaching**</td>
<td>Economic Geography 227</td>
</tr>
<tr>
<td>Business Subjects 230</td>
<td>Electives</td>
<td>Electives 7</td>
</tr>
<tr>
<td>Retailing 247</td>
<td>Electives 7</td>
<td>Electives 10</td>
</tr>
</tbody>
</table>

*Students not meeting accepted standards of efficiency in typewriting and shorthand, or lacking required number of hours for special certificate will register for additional courses in these fields.

**Student Teaching offered each quarter of senior year, six hours required.

OPTIONS IN BUSINESS EDUCATION

Students who do not fulfill the comprehensive major in Business Education (45 semester hours or 68 quarter hours) have five other options. See Sections B, C, O, T, and V, under Major and Minor Subjects under Four-Year Curriculum for High School Teachers. For description of courses in Business Education see Department of Economics and Business Administration.

HEALTH AND PHYSICAL EDUCATION

Students who complete this curriculum are eligible to receive the state high school provisional certificate for the teaching and supervision of physical education.
# College of Liberal Arts

## Fall Quarter
- Physical Education 101a
- English 101
- Biology 101
- Mathematics, Foreign
- Lang. or Social Science
- Hygiene 115

## Winter Quarter
- Physical Education 102a
- English 102
- Biology 102
- Mathematics, Foreign
- Lang. or Social Science

## Spring Quarter
- Physical Education 103a
- English 102a
- Biology 103
- Theory and Practice of Plays and Games 156
- Mathematics, Foreign
- Lang. or Social Science

## Second Year
- Physical Education 104a
- Com. Anatomy 206
- Health Education 117
- General Psychology 101
- English

## Winter Quarter
- Physical Education 105a
- Hist. Anatomy 213
- Health Education 151
- Ed. Psychology 156
- English
- Elective

## Spring Quarter
- Physical Education 106a
- Local Flora or Heredity or Evolution
- Health Education 152
- Ed. Psychology 156
- Body Mechanics 155
- First Aid 158
- English

## Third Year
- Prin. and Meth. of Physical Ed. 201
- Football, Coaching 221a or Coach. (Women) 221b
- Sociology
- Prin. of High School Teaching 208

## Winter Quarter
- Prin. and Meth. of Physical Ed. 202
- Basketball Coaching 222 or Coach. (Women) 222
- Educational Methods 250
- Sociology
- School Adm. 252

## Spring Quarter
- Methods of Physical Education 263
- Baseball and Track Coach. 223 or Coach. (Women) 223
- Sociology
- Hist. and Philosophy of Education 238

## Fourth Year
- Organ. and Admin. of Physical Education 254
- Advanced Coaching 271
- Student Teaching 263a
- Bible 151 or 201
- Electives

## Winter Quarter
- Normal Diagnosis 252
- Advanced Coaching 272
- Student Teaching 263b
- Bible 152 or 201
- Electives

## Spring Quarter
- History of Physical Education 260
- Advanced Coaching 273
- Student Teaching 263c
- Bible 210 or Philosophy 203
- Electives

Students offering less than one unit of chemistry for entrance must schedule Chemistry 101a, 102a, and 103a, not later than the sophomore year.

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## Courses in Health and Physical Education

### 101. Physical Education
- Fall, 1 hour

### 102. Physical Education
- Winter, 1 hour

### 103. Physical Education
- Spring, 1 hour

  Men—Gymnasium and outdoor classes in season, natural gymnastics, informal play. Six sections.

  Women—A course in natural gymnastics including games and sports in season, dancing and tumbling. Three sections.

### 104. Physical Education
- Fall, 1 hour

### 105. Physical Education
- Winter, 1 hour
106. PHYSICAL EDUCATION
Men—Continuation of course 103 with team games and apparatus added. Six sections.
Women—A continuation of course 103. Four sections.

101a. PHYSICAL EDUCATION FOR MAJORS
Fall, 1 hour

102a. PHYSICAL EDUCATION FOR MAJORS
Winter, 1 hour

103a. PHYSICAL EDUCATION FOR MAJOR
Spring, 1 hour

104a. PHYSICAL EDUCATION FOR MAJORS
Fall, 1 hour

105a. PHYSICAL EDUCATION FOR MAJORS
Winter, 1 hour

106a. PHYSICAL EDUCATION FOR MAJORS
Spring, 1 hour
Courses 101a to 106a inclusive are required of all students majoring or minoring in physical education in place of courses 101 to 106. These courses consist of natural activities in season, including games, stunts, tumbling, clogging, folk and character dancing, natural dancing, pageantry for women and combat activities for men. These courses apply toward physical education major. Men.

115. PERSONAL AND GENERAL HYGIENE
Fall, Winter, Spring, 3 hours
A course designed to cover the various phases of personal hygiene and health from the individual aspect, with emphasis on preventive measures. Each quarter.

117. HEALTH EDUCATION
Spring, 3 hours
The relation of hygiene to home and community life, including a study of sewage disposal, refuse, disposal, transmission and control of diseases.

151. HEALTH EDUCATION
Winter, 3 hours
This course deals with the health program of the public schools, and the teaching of habits, attitudes and knowledge conducive to good health.

152. HEALTH EDUCATION
Fall, 3 hours
A course for the special teacher and supervisor of physical education, dealing with the sanitation of school buildings, surveys of various school systems, teachers' health, and other health problems arising in a school system.

155. BODY MECHANICS
Spring, 3 hours
This course deals with the general body mechanics of the human organism, furnishing the student an opportunity to study and analyze the activities of the physical education program in their relation to coordination and the proper body mechanics. Prerequisite: Comparative Anatomy 206 and Mammalian Anatomy 213.
156. THEORY AND PRACTICE OF PLAYS AND GAMES  
Spring, 3 hours
The need, purpose, and function of play in education are studied. Activities adaptable to various age levels of the elementary and secondary schools are studied. Two hours of theory and two hours of laboratory per week.

158. FIRST AID AND ATHLETIC TRAINING  
Winter, 2 hours
Lectures, discussion and practice in the giving of first aid in cases of emergency. Methods of scientific training and conditioning of athletic teams. The American Red Cross First Aid Certificate may be obtained by students who pass a satisfactory examination.

159. ADVANCED FIRST AID  
Spring, 2 hours
This is a course designed to give instruction and advanced training in first aid. Upon satisfactory completion of this course the Advanced First Aid Certificate and Instructor Training Certificate will be awarded. Prerequisite: First Aid and Athletic Training 158.

201. PRINCIPLES AND METHODS OF PHYSICAL EDUCATION  
Fall, 4 hours
202. PRINCIPLES AND METHODS OF PHYSICAL EDUCATION  
Winter, 4 hours
203. METHODS OF PHYSICAL EDUCATION  
Spring, 4 hours
Lectures, demonstrations, and practice. An examination of the principles underlying modern practices in physical education, from the standpoint of general education. The methods used in the natural program of physical education, such as the teaching of fundamental skills of tumbling and stunts, basketball, indoor baseball, speedball, volleyball, handball. Class, three hours; practice, two hours.

221a. METHODS IN COACHING FOOTBALL  
Fall, 3 hours
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; strategy and generalship.

221b. METHODS IN COACHING FOR WOMEN  
Fall, 3 hours
This course is to prepare major and minor students in physical education to coach athletics in secondary schools. The course covers presentation of technique, basic principles, team play and methods for instruction of hockey, soccer, and speedball.

222. METHODS IN COACHING BASKETBALL  
Winter, 3 hours
Men—Special emphasis is given to the fundamentals, passing, shooting, dribbling, feinting, and pivoting; to the various styles of offense and defense used by leading coaches; to equipment; to the conditioning of a team; and to the handling of a team in games. Lectures, reports, demonstration and practice.
Women—Volleyball, basketball, and handball.
223. METHODS IN COACHING BASEBALL AND TRACK
   Spring, 3 hours
   This course covers pitching, catching, batting, fielding, baserunning, individual position and team play in baseball. It takes up the best methods and forms for all of the events in track and field. Lectures, reports, demonstration, and practice.
   Women—Baseball, tennis, track, and field sports.

252. NORMAL DIAGNOSIS
   Winter, 2 hours
   This course includes recording of personal and family history, methods of making general health examinations, including special methods of examining the eyes, ears, nose, throat, spine, feet; weighing and measuring, and a limited study of corrective exercises for various postural defects.

254. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION—MEN AND WOMEN
   Fall, 2 hours
   A course dealing with the objectives, principles, and methods of organization and administration of physical education in elementary and secondary schools and colleges. It includes management of athletic sports, games, and contests, and intramural athletics.

260. HISTORY OF PHYSICAL EDUCATION
   Spring, 2 hours
   This course traces the evolution and development of physical education through ancient and modern times. It demonstrates the close relationship existing between certain elements in civilization and the status of physical education in that civilization.

263. STUDENT TEACHING—PHYSICAL EDUCATION
   Fall, Winter, Spring, 6 hours
   Students taking the four year course for the training of physical education supervisors and teachers are required to prepare a syllabus of the work covered, write lesson plans, hold conferences with the professor in charge and teach in junior and senior high school and elementary schools.

265. PROBLEMS IN PHYSICAL EDUCATION
   Spring, 1 to 3 hours
   This course deals with specific problems in physical and health education and is open to properly qualified students. Time to be arranged.

271. ADVANCED COACHING PRACTICE
   Fall, 1 hour

272. ADVANCED COACHING PRACTICE
   Winter, 1 hour

273. ADVANCED COACHING PRACTICE
   Spring, 1 hour
   These courses are designed to give students who have had courses 221, 222 and 223 an opportunity to do actual coaching under supervision, in all sports in season. Hours arranged.
**INDUSTRIAL ARTS EDUCATION**

The industrial arts courses have been established to meet the need of those desiring to teach industrial arts in the junior and senior high schools of Ohio.

In the secondary school program, industrial arts includes both study and experiences in the materials, processes, products and occupations of an industrial society in order that the functions of orientation, avocation, consumer literacy, teaching competency, social understandings and cultural relationships may be achieved.

Students completing the Industrial Arts curriculum as outlined in the Division of Teacher Education will be granted the degree of Bachelor of Science in Education with a major in Industrial Arts.

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<th>FALL QUARTER</th>
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<td>Physical Education 101</td>
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<tr>
<td>English 101</td>
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<tr>
<td>Chemistry 101a or 101</td>
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<tr>
<td>Drawing 111</td>
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<td>Speech 101</td>
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<td>Ind. Arts Orientation Laboratory 101</td>
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<td>Physics 109</td>
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<td>Woodwork 114</td>
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<tr>
<td>Design 127</td>
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<tr>
<td>Principles of Teach. 208</td>
<td>School Adm. 252</td>
<td>Ind. Arts Meth.</td>
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<tr>
<td>Metalwork 210</td>
<td>Metalwork 220</td>
<td>and Organization 251</td>
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<tr>
<td>Materials of Industry 231</td>
<td>Woodwork 118</td>
<td>Shop Plan &amp; Equip.</td>
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<tr>
<td>Bible 151</td>
<td>Bible 162</td>
<td>Bible 153 or</td>
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<td>Philosophy 203</td>
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<tr>
<td>Wood Turning 119</td>
<td>Ceramics 240</td>
<td>Machine Shop 233</td>
</tr>
<tr>
<td>Elective</td>
<td>Metalwork 221</td>
<td>Student Teaching in</td>
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<tr>
<td>Elem. Electricity 222</td>
<td>Wood Finishing 120</td>
<td>Industrial Arts* 242</td>
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*Offered each quarter 6 hours required.

Seventy quarter hours are required for a teaching major in the field of industrial arts. Forty quarter hours are required for a teaching minor in this field. The following courses are suggested:

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<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Industrial Arts 101</td>
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<tr>
<td>Woodwork 114, 116</td>
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<td>Metalwork, 210, 220</td>
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<tr>
<td>Elem. Electricity 222</td>
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<tr>
<td>Ind. Arts Meth.</td>
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<td>and Organization 251</td>
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<tr>
<td>Shop Plan. 252</td>
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Note: Other Social science courses may be substituted for Economics.
COURSES IN INDUSTRIAL ARTS

101. INDUSTRIAL ARTS ORIENTATION LABORATORY
      Spring, 5 hours
      An orientation course in Industrial Arts, required of all majors
      and minors. Covers briefly the fundamental tools and operations for
      each area.

111, 112. DRAWING
      Fall, Winter, 4 hours
      Courses offered in College of Engineering.

115. DRAWING
      Spring, 4 hours
      Primarily intended for students majoring in industrial arts and ele-
      mentary education. The course includes the care and use of drawing
      equipment, orthographic projections, isometric drawings, oblique draw-
      ings, perspective drawings, charts, maps, lettering, and other topics.

114. WOODWORK I
      Fall, 3 hours
      Use, name and care of fundamental hand tools. Use and character- 
      istics of the common woods. The marking of joints and their applica-
      tion in simple projects. Prerequisite: Drawing 111.

116. WOODWORK II
      Winter, 3 hours
      Use and care of fundamental power machines. Basic operations and
      procedures in cabinet making. Prerequisite: Woodwork 114.

117. WOODWORK III
      Spring, 3 hours
      Advanced cabinet making with carving, inlaying or other types of
      surface decoration. Prerequisite: Woodwork 116.

118. WOODWORK IV
      3 hours
      Advanced cabinet making with emphasis on power machine work
      using jigs and fixtures. Prerequisite: Woodwork 117. Arranged by per-
      mission. Any Quarter.

119. WOOD TURNING
      Fall, Winter, Spring, 2 hours
      Various methods of turning on the wood lathe. The use, care and
      sharpening of turning tools. Sanding and finishing on the wood lathe.
      Arranged. Any Quarter.

120. WOOD FINISHING
      Winter, 2 hours
      The study, preparation, and application of various finishing materi-
      als to different kinds of woods and other materials.

127. DESIGN
      Winter, 3 hours
      Study of rhythm, repetition, variation, balance, symmetry, space
      divisions, and other topics in their relationship to good design. Freehand
      perspective drawing, lettering, and other pertinent topics.
210. METALWORK I
Practice in basic operations of sheet metal, bench metal, art metal, casting, soldering and brazing. Hand and machine tool operations. Not open to Freshmen.

220. METALWORK II
Advanced theory and practice as listed in course 210. Prerequisite: Drawing 111 and 112.

221. METALWORK III
Theory and practice of arc and acetylene welding. Practice in casting non-ferrous metals and pattern making.

222. ELEMENTARY ELECTRICITY
Study of the fundamental principles of electricity. The application of these principles in the laboratory construction of transformers, electric motors, and other similar projects. Readings and reports.

225. PHOTOGRAPHY
Study of cameras, photographic materials, development and theory of development, printing processes and many other topics. One lecture and one two-hour laboratory period each week. Time to be arranged.

231. MATERIALS OF INDUSTRY
A study of industrial materials, their characteristics, sources and uses. Field trips to industrial plants. Reports and displays.

233. ELEMENTARY HANDWORK
The making of projects, toys and games for the primary and intermediate grades using the coping saw and a few simple tools. The construction of projects which could be carried on in the regular classrooms using salvage material such as orange crates, boxes, and plywood scraps. Not open to Industrial Arts majors and minors.

235. CRAFTS AND HOBBIES
Work in copper, brass, wood, plastic, leather, and other materials, in the construction of suitable projects. Readings and reports.

240. CERAMICS
An introduction to pottery making, study of materials, forming and decorating processes, glazing and firing. Laboratory practice in building pottery by hand, slip casting and cement work.

242. STUDENT TEACHING IN INDUSTRIAL ARTS EDUCATION
Prerequisite Industrial Arts 250.
251. INDUSTRIAL ARTS ORGANIZATION AND METHODS  
Methods of teaching industrial arts, objectives, lesson plans, organization, instructional material, readings and reports. Visits to high school shops. Open to industrial arts majors and minors of Junior and Senior standing.  
Spring, 5 hours

252. SHOP PLANNING AND EQUIPMENT  
The making of floor plans, selection, arrangement and maintenance of equipment for the small general shop. Prerequisite: Same as and to accompany 251.  
Spring, 2 hours

260. SPECIAL PROBLEMS IN INDUSTRIAL ARTS  
Time to be arranged. Offered any quarter.  
1 to 4 hours

333. MACHINE SHOP  
Course offered in College of Engineering.  
Spring, 3 hours

PUBLIC SCHOOL MUSIC

These courses are designed for students who wish to prepare themselves for the teaching and supervision of music in public schools. Applicants for admission are expected to possess a reasonable amount of musical training. Students completing these courses will receive the degree of Bachelor of Science in Education and the state four-year provisional certificate.

FIRST YEAR

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<tr>
<th>FALL QUARTER</th>
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<td>Physical Education 101</td>
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<td>(b) Instrument, Piano, Band, Orchestra</td>
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SECOND YEAR

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<td>Theory 104</td>
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<tr>
<td>Hist. &amp; Appreciation 153</td>
<td>Hist. &amp; Appreciation 154</td>
<td>Theory 106</td>
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<td>5</td>
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<tr>
<td>Conducting 140</td>
<td>Conducting 141</td>
<td>Hist. &amp; Appreciation 155</td>
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<tr>
<td>Applied Music</td>
<td>Applied Music</td>
<td>Conducting 142</td>
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<td>(a) Voice, Piano or Organ, Chorus-Choir</td>
<td>(a) Voice, Piano or Organ, Chorus-Choir</td>
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<td>(b) Instrument, Piano, Band, Orchestra</td>
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<td>(b) Instrument, Piano, Band, Orchestra</td>
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### Third Year

**Fall Quarter**
- Eng. Lit. or Elective: 3
- Prin. of Teaching 208: 5
- Primary Methods 202: 4
- Band and Orchestral Instruments 220: 2
- Applied Music (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

**Winter Quarter**
- Eng. Lit. or Elective: 3
- School Adm. 252: 5
- Student Teaching 213: 3
- Band and Orchestral Instruments 221: 2
- Applied Music (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

**Spring Quarter**
- Eng. Lit. or Elective: 3
- Hist. of Education 238: 6
- Intermediate Methods: 4
- Band and Orchestral Instruments 222: 2
- Applied Music (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

### Fourth Year

**Fall Quarter**
- Hist. or Political Science: 3
- Bible 151: 3
- Student Teaching: 3
  (a) or (b) 214: 3
  (a) Class Voice 207: 2
  Counterpoint 285: 2
  (b) Instru. Class 217: 2
  Instrumentation 250: 3
- Applied Music: 4
  (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

**Winter Quarter**
- Hist. or Political Science: 3
- Bible 152: 3
- Junior and Senior: 4
  High 204: 3
  School Methods and Materials: 4
  (a) Class Voice 208: 2
  Choral Arranging 286: 3
  (b) Instru. Class 218: 2
  Orchestration 251: 3
- Applied Music: 4
  (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

**Spring Quarter**
- Hist. or Political Science: 3
- Bible 153: 3
- Student Teaching: 3
  (a) or (b) 215: 3
  (a) Class Voice 209: 2
  Choral Arranging 287: 3
  (b) Instru. Class 219: 2
  Adv. Orchestration 252: 3
- Applied Music: 4
  (a) Voice, Piano or Organ, Chorus-Choir: 4
  (b) Instrument, Piano, Band, Orchestra

(a) Required of all Vocal Majors.
(b) Required of all Instrumental Majors.
Attendance at all recitals is required of all music majors.

### Theoretical Music

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<tr>
<th>Course</th>
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<tr>
<td>101. Theory</td>
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<tr>
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<td>103. Theory</td>
<td>Spring</td>
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<td>105. Theory</td>
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<tr>
<td>106. Theory</td>
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<td>5 hours</td>
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Theoretical Music includes the singing, reading, and writing of scales, intervals, triads, and simple part-writing from melodies and figured bases. As the course progresses, seventh chords, modulations, suspensions, and passing tones are added. Original work includes the hymn tune and simple two and three part song-forms.

Altered chords, non-harmonic tones, chromatics, and advanced modulation added to the previous year of Theory. Analytical technique of music compositions and the study of Musical Form from the motive and song-form to the sonata and contrapuntal forms. Prerequisite: One year of Theory.
108. MUSIC LITERATURE AND APPRECIATION  Fall, 3 hours
109. INTRODUCTION TO MUSIC  Winter, 3 hours

110. MUSIC EDUCATION  Spring, 3 hours
For description of these courses see Elementary Education section of this bulletin.

140. CONDUCTING  Fall, 2 hours
141. CONDUCTING  Winter, 2 hours

142. CONDUCTING  Spring, 2 hours
Courses in principles of conducting concluding with conducting full band and orchestra scores. Prerequisite: Harmony 113.

153. HISTORY AND APPRECIATION  Fall, 3 hours
154. HISTORY AND APPRECIATION  Winter, 3 hours

155. HISTORY AND APPRECIATION  Spring, 3 hours
These courses deal with the origin and development of music, studied from an appreciative basis.

202. PRIMARY MUSIC METHODS AND OBSERVATION  Fall, 4 hours
Two observations each week are required. Prerequisite: Theory 106; Harmony 114.

203a. INTERMEDIATE MUSIC METHODS AND OBSERVATION  Spring, 4 hours
Materials and methods in vocal music. Four observations each week are required. Prerequisite: Primary Music Methods 202.

203b. INTERMEDIATE MUSIC METHODS AND ORGANIZATION  Spring, 4 hours
Organization and management of bands and orchestras in the elementary school and the high school. Instrumental classes, substitution of parts, repertoire, public performances. Observation of bands, orchestras, and instrumental classes in the public school.

204. JUNIOR AND SENIOR HIGH SCHOOL METHODS  Winter, 4 hours
The adolescent voice and its care. Two observations each week are required. Prerequisite: Intermediate Music Methods 203.

207. CLASS VOICE  Fall, 2 hours
208. CLASS VOICE  Winter, 2 hours

209. CLASS VOICE  Spring, 2 hours
A course designed for prospective teachers of vocal music in the public school.
213. SUPERVISED TEACHING IN THE PRIMARY GRADES  Winter, 3 hours
    Prerequisite: Primary Music Methods 202.

214. SUPERVISED TEACHING IN THE INTERMEDIATE GRADES  Fall, 3 hours
    (a) Practice teaching in vocal music. Prerequisite: Intermediate
        music Methods 203a.
    (b) Practice teaching in instrumental music. Prerequisite: Inter-
        mediate Music Methods 203b.

215. SUPERVISED TEACHING IN JUNIOR AND SENIOR HIGH
    SCHOOL  Spring, 3 hours
    (a) Practice teaching in vocal music. Prerequisite: Methods
        and Observation 204.
    (b) Practice teaching in instrumental music. Prerequisite: Inter-
        mediate Music Methods 203b.

217. INSTRUMENTAL CLASS  Fall, 2 hours

218. INSTRUMENTAL CLASS  Winter, 2 hours

219. INSTRUMENTAL CLASS  Spring, 2 hours
    Courses designed for prospective teachers of instrumental music in the
    public school.

220. BAND AND ORCHESTRAL INSTRUMENTS  Fall, 2 hours

221. BAND AND ORCHESTRAL INSTRUMENTS  Winter, 2 hours

222. BAND AND ORCHESTRAL INSTRUMENTS  Spring, 2 hours
    Courses designed to give the prospective teacher of vocal music a
    general knowledge of the playing technique of the instruments in the
    string choir, woodwind choir, and the brass choir.

250. INSTRUMENTATION  Fall, 3 hours

251. ORCHESTRATION  Winter, 3 hours

252. ADVANCED ORCHESTRATION  Spring, 3 hours
    Courses designed to give the public school music instructor in the
    instrumental field of music a thorough knowledge of the instruments
    of the orchestra and band, and the arrangement of music for complete
    school orchestras and bands.

285. COUNTERPOINT  Fall, 3 hours

286. CHORAL ARRANGING  Winter, 3 hours

287. CHORAL ARRANGING  Spring, 3 hours
    Courses designed to give the public school music instructor in the
    vocal field of music the technic of contrapuntal writing, and the arrang-
    ing of music for the school choir, glee clubs, and vocal organizations.
DESCRIPTION OF PROFESSIONAL COURSES IN EDUCATION

101. GENERAL PSYCHOLOGY  
      Fall, 5 hours  
      A general survey of psychological facts and principles stressing human experience and behavior. Prerequisite: One year of Zoology or General Biology.

135. EDUCATIONAL PSYCHOLOGY  
      Winter, 3 hours  
      Interpretation of the fundamental psychological facts, principles, and theories applying to education; pupil growth, development and adjustment; problems of learning; relative influence of nature and nurture; statistical procedures. Prerequisite: Psychology 101.

136. EDUCATIONAL PSYCHOLOGY: CHILD DEVELOPMENT  
      Spring, 3 hours  
      Characteristics of the child at different levels of maturity; physical, mental and emotional growth; growth and organization of meanings; control of social and ethical behavior; development of personality. Prerequisite: Psychology 101.

ELEMENTARY EDUCATION

101. PUBLIC SCHOOL ART  
      Fall, 3 hours  
      Designed to meet the needs of teachers in the primary grades. Various media of expression are used: pencil drawing, color, lettering, posters, projects, perspective, cartoons, design, diction and appreciation. The work is integrated with other elementary activities.

102. PUBLIC SCHOOL ART  
      Winter, 3 hours  
      A continuation of Public School Art 101 on the intermediate grade level.

103. PUBLIC SCHOOL ART  
      Spring, 3 hours  
      Advanced Public School Art. A continuation of Public School Art 102, grades 7, 8 and 9. The work is integrated with dramatics, English, athletics, music and social activities.

108. MUSIC LITERATURE AND APPRECIATION  
      Fall, 3 hours  
      A general course for deeper understanding and more intelligent discrimination of music through analysis and active listening to representative works of the music masters. The correlation of music with everyday living.

109. INTRODUCTION TO MUSIC  
      Winter, 3 hours  
      Development of the skills of ear training and sight singing, and voice culture through the use of songs suitable for the school program.
110. MUSIC EDUCATION
Music activities, music materials and literature, unit planning and teaching methods and skills for the different age groups from kindergarten to junior high school. This includes singing, rhythmic, creative, and listening experiences.

138. CHILDREN'S LITERATURE
A study from the literary and educational point of view of the best of literature for the elementary school children; the place of literature in the education of the child; principles involved in the teaching of literature with stress on its integration with other school activities.

206. PRINCIPLES OF TEACHING IN THE ELEMENTARY SCHOOL
Fall, 5 hours
Fundamental principles of teaching and learning with special reference to their application in the elementary grades. Attention is given to current trends in elementary education; developing units of work; utilizing children's latent creative abilities; meeting individual needs; managing the daily program, evaluating child growth and development.

222. TEACHING OF GEOGRAPHY
Spring, 3 hours
A survey of techniques based on the principal units of elementary geography. Home geography; regional; visual; travel; integrated units; place; problems; principles.

233. ELEMENTARY HANDWORK
See Industrial Arts.

235. ART—CRAFTS AND HOBBIES
See Industrial Arts.

236. TEACHING OF ARITHMETIC
Fall, 3 hours
Content, methods and principles underlying the teaching of arithmetic in the first, second and third grades; diagnosis and remedial work; preparation and evaluation of materials of instruction.

237. TEACHING OF ARITHMETIC
Winter, 3 hours
A study of the content, methods and principles underlying the teaching of arithmetic in grades 4, 5, 6, 7, and 8; diagnostic and remedial work; preparation and evaluation of materials in instruction.

239. TEACHING OF THE LANGUAGE ARTS
Winter, 3 hours
Problems and methods of teaching oral and written expression, handwriting and spelling and their relation to other subjects in the curriculum. Attention is given to the organization and administration of a functional language arts program; diagnostic and remedial measures preparation and evaluation for materials of instruction.

240. TEACHING OF READING
Fall, 3 hours
Principles and techniques of teaching reading in first, second and third grades. Attention will be given to reading readiness, phonics,
oral and silent reading, diagnostic and remedial measures, evaluation of textbooks and tests.

241. TEACHING OF READING Winter, 3 hours
A study of the principles and methods of teaching reading in the intermediate and upper grades. Attention given to oral and silent reading, phonics, diagnostic and remedial measures, evaluation of textbooks and preparation of materials of instruction.

242. REMEDIAL READING Summer, 3 hours
Causes of reading difficulties; the diagnosis and remedial treatment of each type of disability; a study of diagnostic tests.

243. TEACHING OF THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOLS Spring, 3 hours
Objectives, methods, modern tendencies and evaluation in history, geography, civics, and related fields, planning of experience units and materials of instruction.

268. STUDENT TEACHING IN THE ELEMENTARY SCHOOLS Fall, Winter, Spring, 4-8 hours
Eight hours student teaching is required of all candidates for the State Elementary Four-Year Provisional Certificate. The work consists of planning and teaching under supervision in the elementary grades. The following prerequisites are required. 1. Have a minimum scholarship rating of 1.25 quality points per scheduled hour. 2. Approved by Director of Teacher Education.

SECONDARY EDUCATION

208. PRINCIPLES OF HIGH SCHOOL TEACHING Fall, 5 hours
A presentation of objectives, methods, and the techniques of teaching procedures in the high school; objectives in secondary education; individual differences; stimulating high school pupils to wholesome activities; procedures involving the unit idea; planning learning activities; principles and instruments of measurement; guidance and counseling; observation of secondary school teaching. Prerequisite: Psychology 135.

252. SCHOOL ADMINISTRATION AND ORGANIZATION Winter, 5 hours
Designed to give an introductory overview of the administration and organization of education in the United States; federal, state and local administration; financing public education; the teaching staff; pupil personnel; administration and organization of the elementary, junior, and senior high schools; Ohio school laws; buildings and equipment.

238. HISTORY AND PHILOSOPHY OF EDUCATION Spring, 5 hours
A survey of ancient, mediaeval, and modern education with the
object of developing an appreciation and understanding of modern educational theories and practices.

Courses 208, 252 and 238 make a logical sequence which should be completed during the junior year. These three courses follow the series in Educational Psychology completed during the sophomore year.

250. TEACHING OF SECONDARY SCHOOL SUBJECTS

Senior standing.

TEACHING OF ENGLISH Winter, 3 hours
Effective devices and methods employed in teaching English in the high school; methods of teaching literature, grammar, oral English, and composition; evaluation and selection of textbooks, visual materials and library references; extra-curricular programs; objective tests.

TEACHING OF HISTORY AND SOCIAL SCIENCES Winter, 3 hours
Purposes and aims in the teaching of history and the social sciences; evaluation of integrated courses in the social sciences; selecting and organizing materials; methods of procedure; objective tests.

TEACHING OF MATHEMATICS Fall, 3 hours
Reorganization of mathematics in secondary schools; evaluation of arithmetic, algebra, geometry and unified mathematics; selecting and organizing materials; objective tests.

TEACHING OF LANGUAGES Spring, 3 hours
Work is adapted to meet the needs of students majoring in the different languages. Aims and methods of teaching languages; study of direct and indirect methods, recent trends; evaluation of textbooks; suggestions for projects; organizing language clubs; objective tests.

TEACHING OF THE NATURAL SCIENCES Spring, 3 hours
Designed for students who are preparing to teach one or more of the Natural Sciences. The work is adapted to meet the needs of the individual student. Selection and organization of subject matter; planning of laboratories; choice of equipment and textbooks; improvised equipment; selected projects in the different sciences; objective tests.

TEACHING OF SPEECH Fall, 3 hours
Effective methods of teaching speech in the elementary and secondary schools. Special attention is given to the place of speech in extra-curricular programs, debate, dramatics and radio.

270. STUDENT TEACHING—JUNIOR AND SENIOR HIGH SCHOOLS Fall, Winter, Spring, 6 hours

263. STUDENT TEACHING—PHYSICAL EDUCATION Fall, Winter, Spring, 6 hours
213, 214, 215. STUDENT TEACHING—MUSIC

Fall, Winter, Spring, 6 hours

242. STUDENT TEACHING—INDUSTRIAL ART

Fall, Winter, Spring, 6 hours

240. STUDENT TEACHING—BUSINESS EDUCATION

Fall, Winter, Spring, 6 hours

Student teaching is required of all candidates for the state secondary four-year provisional certificate. The following prerequisites are required: 1. Have a senior rank. 2. Have a minimum scholarship rating of 1.25 quality points per scheduled hour. 3. Have complete courses in Educational Psychology, Principles, and Special Methods. 4. Teach either major or minor subjects. 5. Approved by the Director of Teacher Education.

The work consists of planning and teaching under supervision either in the Junior or Senior high school, at least one hour a day or the equivalent of six hours a week for one quarter. Six hours credit is given for approximately 72 hours of teaching and two one-hour conference periods per week throughout the quarter. Student teaching is offered during the Fall, Winter and Spring Quarters. By arrangement.
COLLEGE OF ENGINEERING

ALEXANDER RAFFEN WEBB
Dean

HISTORY AND PURPOSE

The first catalogue of the University included a course in surveying. In 1880, a department of Civil Engineering was organized. Later, departments in Mechanical and Electrical Engineering were established. All the courses of the various curricula have been revised and greatly strengthened.

In keeping with the avowed purpose of Ohio Northern University, it is the aim of the College of Engineering to furnish the student the knowledge necessary for a thorough training in the principles of Engineering, and give him such special and technical information as is required in his own particular field of engineering.

ADMISSION

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

CERTIFICATE. Graduates from first grade high schools or accredited academies whose credits show proper distribution of units are admitted without examination upon 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: Chemistry, Biology, Language, History.

Applicants deficient in advanced algebra, solid geometry, or physics are required to make up deficiencies.

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.

3. ADVANCED STANDING. An applicant from another college seeking advanced standing must present evidence of honorable dismissal and an official transcript of his college record. Some credit may be allowed for practical experience in drafting, surveying, and shop work. Appli-
cants for such credit must submit a satisfactory statement from their employer giving time of service, nature of work, name and address of employer.

Advance credit will not be given for more than 162 quarter hours (108 semester hours).

4. SPECIAL STUDENT. Mature persons not candidates for a degree may be admitted, if on consultation the Dean is satisfied that they have sufficient preparation to pursue the work successfully. Such applicants are classified as Special Students. Upon completion of their work, a certificate showing the course of study pursued and the amount of work covered is presented to them.

The standard load in the College of Engineering is 18 hours. Extra hours based upon scholarship attainments may be granted by the Dean.

PROBATION

Freshmen making a scholarship rating of less than 0.6 quality point per scheduled hour, sophomores making less than 0.7, and juniors making less than 0.8, and seniors making less than 1.0 quality point per scheduled hour during the quarter are put on probation. If the student should again fail to meet the standards in the quarter for which he is put on probation, he is put on probation for the following quarter of residence with a reduced schedule. Failure to meet this academic requirement may subject the student to dismissal.

CLASSIFICATION

The minimum requirements for sophomore standing are 46 credit hours and a point average of 0.8; for junior standing, 97 credit hours and a point average of 0.9; for senior standing, 150 credit hours and a point average of 1.0.

GRADUATION AND DEGREES

Two hundred and sixteen hours including physical education are required for graduation. The student must have a scholarship rating of at least one quality point for each credit hour. A student cannot be a candidate for more than one degree at any one time.

Final credits toward graduation must be earned in residence.

The university is empowered to grant the customary academic degrees, which in the College of Engineering are Bachelor of Science in Civil Engineering, Bachelor of Science in Mechanical Engineering, and
Bachelor of Science in Electrical Engineering. The University may confer the professional degree upon a candidate who at least five years after graduation has a record of at least three years in a responsible position, has submitted an approved thesis and has successfully completed a comprehensive examination.

CHEMICAL ENGINEERING

Fundamental chemistry has in recent years become a vital factor in the industrial world, and its application to the process of manufacturing is indispensable. In addition to a four-year course for students majoring in chemistry, the University offers a two-year course in chemical engineering which may admit the student to an approved university where he may complete the professional requirements in chemical engineering.

**First Year**

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<td>C. E. 332 Geology</td>
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AERONAUTICAL ENGINEERING

An ever increasing emphasis has been placed upon the study of aeronautics and airplane design in particular. Both in time of war and peace, the study is not only interesting but practical since it assists in transportation, the enriching of commerce, and in time of war, the defense of the country.

The primary objective of this course is to provide the student with a sound basic training in order that he may complete the course in an approved school of aeronautical engineering.

**First Year**

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CIVIL ENGINEERING

Although many of the former divisions have grown into separate departments, civil engineering offers greater opportunities than ever before. No sharp line of distinction can be drawn in the fundamental training of civil, mechanical, electrical, and chemical engineering for the reason that the sciences basic to engineering—mathematics, physics, chemistry, and some applied science—are essential in all departments of engineering.

The department is supplied with high grade instruments and appliances necessary for first class instruction and practice. The laboratories are well equipped, the drafting room large and modern, the scientific library excellent. A fully equipped senior design room is also in use.
### FOURTH YEAR

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<tr>
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<td>C.E. 433, Hyd. Mach'y. 5</td>
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Total number of hours required for graduation 216.
Attendance at Engineering Lectures is required.
Attendance on Inspection Trip is required during third year.
Five hours Shop Projects may be required for graduation.

### ELECTRICAL ENGINEERING

The courses offered in electrical engineering require a thorough study of theoretical and applied electricity. The first half of the course consists of basic engineering subjects. In the second half of the course an intensive study is made of direct current circuits and machinery, alternating current circuits and machinery, electrical power transmission, electrical machine design, electronics, and high frequency currents. Carefully chosen laboratory experiments supplement class instruction in theory.

The curriculum stresses fundamentals rather than specialized skills. Ample opportunity is provided by campus activities and elective courses for the engineer to develop his cultural as well as his technical training.

The Power laboratory equipment includes direct current and alternating current motor-generator sets, compound and series direct current motors, rotary converters, squirrel-cage and wound-rotor induction motors and transformers. A modern electronics laboratory with complete A.M., F.M. and Television equipment affords opportunity for those students interested in these fields. All necessary auxiliary equipment and instruments for thorough laboratory instruction are available to students.

### FIRST YEAR

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### SECOND YEAR

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<td>Physics 104, Mech. 5</td>
<td>Physics 106 Electricity 5</td>
<td>Phys. 108, Sound &amp; Heat 5</td>
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<td>C.E. 221, Surveying I 5</td>
<td>Economics 125 5</td>
<td>E.E. 213, El. E.E. 5</td>
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### Third Year

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<tr>
<td>M.E. 311, Thermo.</td>
<td>E.E. 421, Illuminations</td>
<td>E.E. 329, AC Circuits II</td>
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<td>E.E. 411, Direct Currents</td>
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<td>C.E. 322, Hydraulics</td>
<td>E.E.* 452, Transient Cir. or</td>
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<td>E.E.* 451, AM and FM</td>
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<td>E.E. 101, A.I.E.E.</td>
<td>*Optional—Take either course</td>
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Total number of hours required for graduation 216. Attendance at Engineering Lectures is required. Attendance on Inspection Trip is required during third year. Five hours Shop Projects required for graduation.

### MECHANICAL ENGINEERING

The first half of the curriculum consists of basic subjects required of all Civil, Mechanical and Electrical students.

In the latter half, more time is allotted to the professional side of mechanical engineering. In a rapidly changing world, mechanical equipment reflects this change. The policy of this department is to stress fundamental theories and methods, rather than use up valuable time in the study of machinery or processes which are frequently obsolete before their inclusion in the engineering curriculum.

A thorough education is given in mechanical drawing, mechanics of materials, machine design, thermo dynamics, steam and gas turbines, boilers, power plant equipment, gas and oil engines, and electrical machinery.

Laboratory training includes gasoline and diesel engine testing, refrigeration, compressors, blowers, jet-propulsion, steam turbines, heat-transfer, column, torsion, and beam experiments.

Written reports in clear, technical language are required.

A machine shop supplements the laboratory equipment, giving opportunity for training in the use of tools and general machine shop practice.

### First Year

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## College of Engineering

### Second Year

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<td>M.E. 452, Gas Turbines</td>
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<td>E.E. 361, El. A.C.</td>
<td>M.E. 342, Dynam.</td>
<td>M.E. 322, M.E. Lab II</td>
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<td>M.E. 333, Mechanism</td>
<td>M.E. 421, Gas Engines</td>
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<td>M.E. 422, Steam Turbine</td>
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Total number of hours required for graduation 216.
Attendance at Engineering Lectures is required.
Attendance on Inspection Trip is required during third year.
Five hours Shop Projects required for graduation.

### Technical Organizations

The Ohio Northern Student Chapter of the American Society of Civil Engineers holds semi-monthly meetings. All civil engineering students are eligible for membership.

The American Institute of Electrical Engineers student branch holds semi-monthly meetings. At these meetings original papers and papers printed in the Proceedings of the American Institute of Electrical Engineers are read and discussed. All students interested in electrical engineering are eligible for membership.

The American Society of Mechanical Engineers holds semi-monthly meetings at which original papers in this field of engineering are read and discussed by members of the society. Students enrolled in the department of mechanical engineering are eligible for membership.

The student branch of the Ohio Society of Professional Engineers embraces all departments of the College of Engineering.

The Ohio Northern Chapter of Student Affiliates of the American Chemical Society holds semi-monthly meetings. Scientific men of national and often international renown appear before this group from time to time.
THE ANNUAL INSPECTION TRIP

The Junior class may devote one week to an extended visit to some large commercial center. The class spends its time profitably in the study of various phases of engineering and industrial activity in Chicago, Milwaukee, South Bend, Detroit, Pittsburgh, or the 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. The University does not guarantee positions to its graduates but does everything within its power to assist them in obtaining employment after graduation.
DESCRIPTION OF COURSES

CIVIL ENGINEERING

101. A.S.C.E. STUDENT BRANCH MEETINGS ½ hour
Fall, Winter and Spring Quarters. Professional seminar meetings of the Student Branch of the American Society of Civil Engineers to hear lectures by prominent engineers, to read and discuss papers presented by members of the Branch, and to gain some experience in the conduct of such meetings.

221. ELEMENTARY SURVEYING I Fall, 5 hours

223. SURVEYING II Spring, 5 hours
Land surveys, advanced topographic surveys with transit, stadia and plane table, control surveys. Use of co-ordinate systems. Triangulation and precise leveling; descriptions of aerial survey methods. Hydrographic surveying. Prerequisites: Surveying 221. Recitations M.W.F., C; Laboratory T. Th. 6, 7, 8.

331. ROUTE SURVEYING Spring, 5 hours
Highway and railroad location, simple curves, compound and reverse curves, spiral curves, vertical curves, earthwork measurement and computations. Prerequisite: Surveying 223. Recitations M.T.W. Th., 4; Laboratory F. 5, 6, 7.

312. MECHANICS OF MATERIALS I Winter, 5 hours
General principles of stresses, elastic limit, shear, riveted joints, torsion, beams, stresses in beams, deflection in beams. Prerequisite; Calculus 109 and Mechanics 213. Daily 2.

313. MECHANICS OF MATERIALS II Spring, 5 hours
Beams with more than two supports, shear in beams, special beams, bending combined with tension or compression, column theory, column formulas used by engineers, resilience in bending or shear, combined stresses, theory of elastic limit or failure, curved beams and hooks. Prerequisite: Mechanics of Materials 312. Daily 2.

322. HYDRAULICS Winter, 5 hours
Static water pressure, flotation, buoyancy, laws of falling bodies applied to hydraulics, measurements of flow. Prerequisite: Physics, Calculus 109 and Mechanics 213. Daily, 3.
323. HIGHWAY ENGINEERING
Design, construction and maintenance of earth roads, paved roads, and streets. Prerequisite: Geology and Surveying 223. Recitations, M.W.F., 4.

332. GEOLOGY

333. TESTING MATERIALS
Spring, 3 hours
Testing cement mortars and concrete aggregates, construction and test of concrete and wooden specimens, tension tests of steel, slender column tests, study of beam deflections under different types of loading. Prerequisite: Mechanics of Materials 312. Laboratory T. Th., 5, 6, 7.

341. ADVANCED SURVEYING III
Fall, 4 hours

351. ENGINEERING MECHANICS
Fall, 5 hours
A course covering the principles of mechanics as applied to statics. The course includes definitions and general principles, systems of co-planar concurrent forces, co-planar parallel forces, co-planar non-concurrent forces, concurrent forces in space, parallel forces in space, non-concurrent nonparallel forces in space, friction, centroids and centers of gravity, and moments of inertia of areas. Prerequisites: Calculus 109 and Physics 104. Daily 1.

411. STRUCTURAL ENGINEERING I
Fall, 6 hours
An introductory course covering by analytical and graphical methods the determination of reactions, moment, shears and stresses in simple trussed structures for fixed and moving loads. Design steel and wood trusses, and design and make detail drawings of simple roof trusses. Prerequisite: Mechanics of Materials 313. Recitations, 3 hours drafting room, 6 hours. M.W.F. 5, 6, 7.

412. STRUCTURAL ENGINEERING II
Winter, 6 hours
An extension of Structural Engineering 411. Covering the theory of uniform moving loads and determining the stresses in highway bridges. Design and make detail drawings of a plate girder viaduct. Prerequisite: Structural Engineering 411. Recitations, 3 hours drafting room, 6 hours. M.W.F., 5, 6, 7.
413. STRUCTURAL ENGINEERING III  
A continuation of Structural Engineering 412. Covering analytical and graphical methods of determining stresses due to fixed and moving loads in simple span railway bridge trusses of the larger type, use of influence lines. Design and make detail drawings of a railway pin-truss span. Prerequisite: Structural Engineering 412. Recitations, 3 hours drafting room, 6 hours. M.W.F., 5, 6, 7.

414. STRUCTURAL ENGINEERING IV  
A general course dealing with movable and long span bridges. Covering bascule, vertical-lift, swing bridges; also continuous, cantilever and suspension bridges. Prerequisite: Structural Engineering 413: Three recitations.

421. REINFORCED CONCRETE I  
Theory of design of concrete beams, girders, slabs, columns and footings. Prerequisite: Mechanics of Materials 313. Recitations, 2 hours, drafting room, 4 hours. M.T.W. Th., 3.

422. REINFORCED CONCRETE II  
Design of buildings. Prerequisite: Reinforced Concrete 421. Recitation, 2 hours, drafting room, 4 hours. T. Th., 5, 6, 7.

423. REINFORCED CONCRETE III  
Design of retaining walls and tanks. Prerequisite: Reinforced Concrete 422. Recitation, 2 hours; drafting room, 4 hours. T. Th., 5, 6, 7.

431. SEWERAGE  
General course on sewerage systems and disposal of sewerage. Prerequisite: Hydraulics 322. Daily, 2.

432. WATER SUPPLY  
Requisites of a water supply, quality of water, collecting and distributing works, studies of rainfall and runoff, works for treating water. Theory of dams. Prerequisite: Hydraulics 322 and Sewerage 431. Daily, 2.

433. HYDRAULIC MACHINERY  
Theory of design of reciprocating pumps, centrifugal pumps and hydraulic turbines. Prerequisite: Hydraulics 322. Daily, 3.

441. FINANCIAL ENGINEERING  

442. FOUNDATIONS  
A descriptive course dealing with pile foundations, pile driving, pile sheeting, cofferdams, open and pneumatic caissons, open wells, types of piers and abutments and underpinning. Prerequisite: Reinforced Concrete 421. M.W.F., 4.
443. ENGINEERING LAW
   A general course dealing with contracts, agency, mechanic's liens, negotiable instruments, and workmen's compensation.

453. SHOP PROJECTS
   Practical projects involving calculation, design, drafting, engineering judgment and skill in construction or repair work.

ELECTRICAL ENGINEERING

101. A. I. E. E. STUDENT BRANCH MEETINGS
   Fall, Winter and Spring Quarters. Presentation of talks and papers by student members. Participation in conducting the Ohio Northern Student Branch of the American Institute of Electrical Engineers.

213. ELEMENTARY ELECTRIC MACHINES
   Introductory or survey course for all engineering students. The electric and magnetic circuit, D. C. and A. C. generators and motors as well as transformers, storage batteries and illumination will be treated. Prerequisite: Physics 106. Daily.

301. ELEMENTARY ALTERNATING CURRENTS
   A comprehensive survey of the generation, transmission, distribution, and use of alternating current power. The theory and characteristics of alternating current circuits, machines, and protective apparatus are studied. Prerequisite: Elementary Electric Machines 213. M.W.F.

311. ALTERNATING CURRENT CIRCUITS I
   A fundamental course in alternating current theory. Vector representation, the calculation of impedance in series and parallel circuits, polyphase circuits, and elementary transients are studied. Prerequisite: Elementary Electric Machines 213. M.T.W. Th., 1; Laboratory.

311. ALTERNATING CURRENT MACHINES
   The theory, characteristics and control of transformers; induction motors, synchronous motors, converters, and alternating current generators. Prerequisite: Elementary Electric Machines. Alternating Current Circuits II 333, 213. M.T.W. Th. 4; Laboratory.

313. ELECTRICAL TRANSMISSION
   This is a course in the electrical transmission of energy. Overhead and underground systems and high voltage phenomena. Prerequisite: Alternating Current Circuits. M.T.W. Th. F.

321, 322, 323. SHOP PROJECTS
   Practical projects involving calculation, drafting, engineering judgment and skill in construction or repair work. These projects may vary
from armature winding and motor repairing to the design and construction of laboratory apparatus. This course involves no class room or text book work. Individual assignments are made to each student.

333. ALTERNATING CURRENT CIRCUITS II

Spring, 5 hours

A continuation of Alternating Current Circuits I with particular emphasis on polyphase circuits, measurements, analysis and applications. Prerequisite: Alternating Current Circuits 311 M.T.W. Th., 1; laboratory.

411. DIRECT CURRENTS

Fall, 5 hours

This is a thorough course in the theory, characteristics, application and control of direct current circuits and machinery. Prerequisite: Elementary Electric Machines 213. M.T.W. Th., 1; laboratory.

412. HIGH FREQUENCY CURRENTS I

Winter, 5 hours

This is a course in the theory and calculation of circuits and apparatus performance at communication frequencies. Prerequisite: Electrical Transmission 313. Daily.

413. HIGH FREQUENCY CURRENTS II

Spring, 5 hours

This is a continuation of the above course involving the mathematical and experimental analysis of equipment characteristics and circuit performance at radio frequencies. Prerequisite: High Frequency Currents 412. Daily.

421. ILLUMINATION

Fall, 3 hours

Theory and modern applications of lighting. Prerequisite: Elementary Electric Machines 213. M.W.F.

431. ELECTRONICS

Spring, 5 hours

This is a course in the theory of electron flow in vacuum tubes. Characteristics and application of newer types of tubes. Amplifiers, modulators, oscillators and detectors. Prerequisite: Elementary Alternating Currents 301. M.W.F., 1 Laboratory.

432. ELECTRONIC CIRCUITS

Spring, 5 hours

A continuation of Electronics 431 with the application of vacuum tubes to more complicated circuits. It will include the further study of Amplifiers, Modulators, Oscillators, Detectors, and their use in Audio and Radio Frequency Circuits. Also various Industrial Control Circuits will be studied. 1 Laboratory.

441, 442. ADVANCED ELECTRICAL LABORATORY I and II

Fall, Spring, 3 hours

Senior year. Special laboratory problems and investigations more intricate and advanced than included in the regular courses. Minor research projects may be undertaken. Hours to be arranged to suit balance of schedule.
451. RADIO FUNDAMENTALS Fall, 5 hours
Fundamentals of circuits and phenomena in radio communication apparatus. Audio and radio-frequency amplification, transmitting and receiving circuits. 1 Laboratory.

452. TRANSIENT CIRCUITS Winter, 5 hours
Circuits involving capacity, resistance and inductances in various combinations, and their relationship to complex wave forms.

453. TELEVISION FUNDAMENTALS Spring, 5 hours
A survey of the entire field of Television including transmission and reception of both black and white and color signals. Comprehensive analysis of, and design procedures in, TV receivers. Prerequisite: AM & FM Radio. M.T.W. Th. 1 laboratory.

462. PRINCIPLES OF ALTERNATING CURRENT AND DIRECT CURRENT DESIGN Winter, 5 hours
The study of procedure in the design of Direct Current Motors and Generators; Alternating Current Machines and transformers. Daily.

MECHANICAL ENGINEERING

101. A. S. M. E. STUDENT BRANCH MEETING ½ hour
Fall, Winter and Spring Quarters. Professional seminar meetings of the Student Branch of the American Society of Mechanical Engineers to hear lectures by prominent engineers, to read and discuss papers presented by members of the Branch and to gain some experience in conducting such meetings.

111. ENGINEERING DRAWING I Fall, winter, 4 hours
Use of instruments, applied geometry, lettering, orthographic projection and pictorial drawing. Ten hours drafting work each week. Daily, 1, 2; Daily, 3, 4; M.W.F., 6, 7, 8.

112. ENGINEERING DRAWING II Winter, 4 hours
Developments, intersections, perspective and working drawings. Prerequisite: M.E. 111. Ten hours work in drafting room each week. Daily, 1, 2; Daily, 3, 4; M.W.F., 6, 7, 8.

113. DESCRIPTIVE GEOMETRY Spring, 5 hours
Descriptive geometry, advanced orthographic projections, problems of point, line, plane, and curved surfaces. Recitations, 3 hours. Six hours drafting room work each week. Daily 1, 2; Daily, 3,4; M.W.F., 6, 7, 8.
114. ENGINEERING DRAWING
Spring, 3 hours
A course in technical drawing designed for chemical engineering students. One recitation and three two-hour laboratory periods each week. Time to be arranged.

115. ENGINEERING DRAWING
Spring, 3 hours
Primarily intended for students majoring in Industrial Arts. Additional work in isometric, oblique, perspective drawings, charts, graphs, and other figures. Time to be arranged.

311. THERMODYNAMICS
Fall, 5 hours

314. STEAM POWER
Winter, 3 hours
A study of the combustion of fuel, steam generating machinery, boilers, stokers, steam engines, condensers, and superheaters. Prerequisite: Thermodynamics 311. M.W.F.

321. MECHANICAL LABORATORY I
Fall, 3 hours
Calibration of instruments, use of planimeter, study of engine indicators and their use, determination of steam quality, approximate coal analysis, heating value of coal by use of bomb calorimeter, flue gas analysis; testing of lubricating oils for flash point, fire point, and viscosity. T. Th., 5, 6.

322. MECHANICAL LABORATORY II
Winter, 3 hours
Boiler evaporative test, engine indicator and brake horsepower tests, indicator card analysis, efficiency tests for injector, electric motor ventilating fan, centrifugal pump and automobile motor. Prerequisite: Mechanical Laboratory I, 321. T. Th., 6, 7.

323. MACHINE DESIGN I
Spring, 4 hours

332. MECHANISM
Spring, 4 hours
Mechanism, motion and velocity, kinematic chains, instantaneous centers, velocity diagrams, parallel and straight line motion, cams, gearing, bevel gears, gear trains, belting and intermittent motions. Daily, 5.

342. DYNAMICS
Winter, 5 hours
Friction, rectilinear and rotary motion, kinetics of bodies under uniform and variable rectilinear acceleration, uniform and non-uniform rotation of bodies, work, power, momentum, impulse, impact. Prerequisite: Eng. Mech. C.E. 351.
411. METALLURGY  
Fall, 4 hours  
The manufacture of pig iron, wrought iron, and steel, mechanical treatment of steel, iron and steel founding, physical and chemical constitution of iron and steel, alloy metals and plastics. Prerequisite: Chemistry 103. M.T.W. Th., 4.

412. MACHINE DESIGN IV  
Spring, 4 hours  

421. GAS AND OIL ENGINES  
Winter, 5 hours  
Liberation of heat energy, combustion, engine burning gas, kerosene and gasoline, semi-Diesel and Diesel engines, automobile engines, carburetion, ignition and testing. Prerequisite: Thermodynamics 311. Daily, 3.

422. STEAM TURBINES  
Fall, 3 hours  
Nozzle and blade design, mechanical losses, impulse turbine, reaction turbine, impulse reaction turbine, governing economics of turbine operation, and the gas turbine. Prerequisite: Thermodynamics 311. M.T.W. Th., 2.

431. SHOP PROJECTS  
All Quarters, 1-5 hours  
Practical projects involving calculation, design, drafting, engineering judgment and skill in construction or repair work.

441. MACHINE DESIGN III  
Winter, 4 hours  

443. HEATING, VENTILATING AND AIR CONDITIONING  
Fall, 3 hours  
Heating and ventilation. Heat losses from buildings, methods of heating, boilers, radiators, and accessories, steam systems, hot water systems, automatic temperature control, hot air furnace heating, fan systems, air washers, and air conditioning. Prerequisite: Thermodynamics 311. M.W.F.

451. MACHINE DESIGN II  
Fall, 4 hours  

452. GAS TURBINES  
Winter, 2 hours  
A survey course covering industrial and aviation gas turbines, and jet-propulsion. Prerequisite: Thermodynamics 311. T. Th.
COLLEGE OF PHARMACY

ALBERT C. SMITH
Acting Dean

HISTORY

The College of Pharmacy of Ohio Northern University had its beginning in the departments of Science and Medicine. Following a passage of law in Ohio in 1884, which required registration in the practice of the profession, Pharmacy was changed from a sub-department to a separate and distinct division of the university.

In 1885 the courses of study covered a period of thirty weeks, three terms of ten weeks each. From time to time the requirements for admission, the courses of study and facilities for instruction have been increased. These changes are concurrent with the progress in medical, chemical, pharmaceutical, health, and the allied sciences.

Graduates of the College of Pharmacy enjoy broad and liberal recognition.

The College of Pharmacy of Ohio Northern University is a member of the American Association of Colleges of Pharmacy and is accredited by the American Council on Pharmaceutical Education.

PURPOSE

In keeping with the avowed purpose of Ohio Northern University the College of Pharmacy aims to prepare men and women to meet not only the legal requirements of the profession but also the increasing public demand for educated and trained pharmacists.

Through organized courses of study, instruction is given in the sciences pertaining to the selection, standardization, preservation, and dispensing of drugs, medicines, and chemicals used in the promotion of personal and public health, and in the service of the pharmacist to the public, to the medical practitioners, and to the profession.

Courses of study in economics, business methods, federal, state, and local laws pertaining to Pharmacy and Public Health are required. Accounting may be elected to further prepare the student with an adequate business background.

Many electives in Pharmacy and in the other Colleges of the University, approved by the dean, may be selected to further aid the individual in the particular field of interest. Students interested in graduate study should elect, if possible, German or French.

REQUIREMENTS FOR ADMISSION TO PRE-PHARMACY

1. The applicant entering pre-Pharmacy should be at least seventeen years of age and of good moral character.
2. The applicant must supply evidence of the satisfactory completion of four years of high school work. Established credit is based on 15 units.

3. Of the fifteen units prescribed for all applicants, three units should be in English and one each in algebra, plane geometry, and science. Three additional units must be chosen from English, languages other than English, mathematics, science, history and social sciences. Preference will be given to students submitting more than one unit of science.

4. See note 1 under requirements for admission to the Pharmacy college concerning the Certificate of Preliminary Education.

REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF PHARMACY

1. Certificate of Preliminary Education. A certificate of preliminary education, issued by the Entrance Examiner of the Ohio Board of Pharmacy, should be obtained. (It would be advantageous to all students entering pre-Pharmacy to obtain this certificate at once.) Blanks for this purpose may be obtained from the Ohio Northern University Director of Admissions. This permit must be obtained before a permit to enter the College of Pharmacy will be issued.

2. The applicant must have one year of pre-Pharmacy from a recognized institution of higher learning, provided the work is parallel to the requirements prescribed in the pre-Pharmacy outline. Prior recognition will be given to those individuals receiving their pre-Pharmacy training at Ohio Northern University. The applicant must have completed at least 45 quarter hours (30 semester hours) of the required subjects (see pre-Pharmacy curriculum) or its equivalent and maintain a scholarship rating of 1 (C average) to become a candidate for the sophomore class in the College of Pharmacy. Students failing to maintain this rating may continue in pre-Pharmacy (subject to the academic rules and regulations of the College of Liberal Arts) until he can present the above requirements.

3. ADVANCED STANDING. A student desiring to transfer from another college must present a transcript of record and a certificate of honorable dismissal from the college he is leaving. He should submit a catalogue of his college. Full credit will be given for work satisfactorily completed in recognized institutions of higher learning, provided such work is parallel to the requirements for graduation in this institution, but ordinary credit will not be allowed for a course in which the lowest passing grade was received.

Advanced credit is given for not more than 135 quarter hours (90 semester hours) exclusive of physical education.
Persons who meet the requirements for admission as indicated in
the preceding paragraphs are issued a Permit to Enter the College of
Pharmacy. To enter any of the regular courses of study the candidate,
after being granted a Permit to Enter, must prepare a schedule of
studies with the aid of an adviser and approval of the Dean, and pay
tuition and fees as stated elsewhere in this catalogue.

Students who are entitled to advanced standing may enter at the
time approved by the Dean. Write for further information.

4. CLASSIFICATION OF STUDENTS. The minimum requirements for
sophomore standing are 45 credit hours and a point average of 1; for
junior standing, 96 credit hours and a point average of not less than
0.9; for senior standing, 144 credit hours and a point average of not
less than 0.9. See scholarship and probation rating below.

5. SCHOLARSHIP RATING AND PROBATION. Any student falling be-
low an accumulative point average of 0.9 will be placed on probation for
one quarter and a full program allowed. If the student fails to improve
his grades and to earn an accumulative point average of 1, after being
on probation, it will be suggested that he carry a reduced program until
such time as his accumulative point average is 1. No student can grad-
uate with an accumulative point average of less than 1. (C average).

To calculate the accumulative point average a 3 credit hour course
with a grade of A gives 9 quality points. A 5 credit hour course with a
grade of B, gives 10 quality points, etc.

REQUIREMENTS FOR GRADUATION

Every person upon whom a degree is conferred must be of good
moral character and have satisfactorily completed all the prescribed
work. He must spend at least four full years or twelve terms in college
of which not less than three full years or nine quarters must be in the
College of Pharmacy and one full year or three quarters in pre-Phar-
macy, and must be in residence the last year in Ohio Northern Univer-
sity, College of Pharmacy. One hundred and ninety-six hours, includ-
ing six hours of physical education, are required as well as the same
number of quality points as scheduled hours. The candidate must be
present at the commencement exercises unless officially excused.

REQUIREMENTS FOR OHIO EXAMINATIONS FOR
REGISTERED PHARMACIST

To be eligible for admission to the Ohio Examination for registered
pharmacist, the candidate must be a graduate of a recognized College
of Pharmacy, and must have at least one year of drug store experience
under the direction of a registered pharmacist after registration with
the State Board of Pharmacy as an apprentice. He must be a citizen of the United States of America or possess his first papers toward citizenship, and be at least twenty-one years of age. Citizenship is not a prerequisite to admission to a College of Pharmacy.

THE PHARMACY BUILDING
(DUKES BUILDING)

The College of Pharmacy is located on the first and second floors of the Dukes Building. The basement is utilized by the Chemistry Department.

The Dean's office, reading room and library, one large lecture room, stockroom, and the pharmacy and drug assay laboratories are located on the first floor. The pharmacognosy, pharmacology, prescription practice and manufacturing laboratories, two small lecture rooms and one large lecture room are located on the second floor.

All laboratory desks in pharmacy, chemistry, and drug assay are equipped with apparatus essential for the general laboratory procedures. The analytical laboratories are equipped with chainomatic balances and, in addition, specific apparatus can be checked from the stockrooms for specialized procedures. The pharmacognosy laboratory is equipped with tables and compound microscopes.

The College of Pharmacy fills prescriptions written by the physicians for the health service program, under the supervision of registered pharmacists.

The Physics laboratories are located in the Hill Building and the Biology laboratories are in the Biology Building.

LIBRARY

The facilities of the main library are at the disposal of the Pharmacy students. In this building will be found many of the current books and classics along with books, periodicals and journals on Physics, Biology, and related sciences. Duplicate copies of many of the common reference texts on Pharmacy and Medicine are in the main library. Bound periodicals in Pharmacy and allied sciences are in the main library.

THE CURRICULUM

Many courses are required to obtain a satisfactory background in any field of endeavor and Pharmacy is no exception. The curriculum thus is made flexible enough to allow preparation in specialized act-
ivities in the profession. All subjects are listed in a logical sequence so that the student will be better prepared for each ensuing course.

Not less than one hundred ninety credit hours are required for graduation excluding physical education.

**THE PRE-PHARMACY CURRICULUM**

Basic or required courses:
- Chemistry 101, 102, 103 or its equivalent ........................................ 15 hours
- English 101, 102, 102a or its equivalent ............................................. 9 hours
- Mathematics 101, 103 or its equivalent ................................................ 10 hours
- Biology 107, 108, 103 or its equivalent ............................................. 9 hours
- Electives ..................................................................................................... 5 hours

Suggested electives:
- Modern Language (German or French) .................................................... 9 hours
- Economics .................................................................................................... 3 hours
- Psychology ................................................................................................. 3-5 hours
- Physics (Laboratory required) ................................................................. 10 hours
- Sociology .................................................................................................... 3-5 hours

**SOPHOMORE YEAR**

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<td>Chemistry 207</td>
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Additional credits may be obtained from the following list of electives:

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<td>Sociology 151</td>
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Further subjects may be chosen from the Liberal Arts College as electives upon approval by the Dean.

*Pharmacy 204 will be offered each term of the year but will be limited to 24 students each term.

**If Pharmacy 204 is taken the first term, no elective is required.
DESCRIPTION OF COURSES

For detailed description of the basic pre-professional courses such as Freshman English, Biology, Chemistry, Mathematics, et cetera, see these departments as listed elsewhere in this catalogue.

ACCOUNTING

131p. ACCOUNTING FOR PHARMACY STUDENTS 3 + 0 (el) Fall, 3 hours
MRS. RITZ

BACTERIOLOGY

*222. GENERAL BACTERIOLOGY 1. 4+0

A general course in the fundamentals of bacteriology. The history of bacteriology, method of classification, characteristics of bacteria and related groups are studied. Attention is given to physical and classical means of control, and to the culturing and growth of microorganisms. The bacteriology of food, water, milk and sewage is studied.

Prerequisites: Biology 107, 108, 103 and Chemistry 101, 102, 103.
MRS. SMITH

*223. PATHOGENIC BACTERIOLOGY 2. 4+0

A study is made of the pathogenic bacteria and the common parasites of man and domestic animals. Control measures, asepsis, and other means of combating such infections are studied. Discussions concerning the viruses, toxins, vaccines, toxoids, toxins, antitoxins and modern biological drugs are made. Prerequisites: Bacteriology 222.
MRS. SMITH

BIOLOGY

All students who are candidates for graduation from the College of Pharmacy are required to complete at least one year of Biology or its equivalent. Two quarters of Botany and one quarter of Zoology are recommended.

A description of these courses is listed elsewhere in this catalogue.

CHEMISTRY

All students who are candidates for graduation from the College of Pharmacy will be required to complete Chemistry 101, 102, 103, 206, 207, and 208 or the equivalents. Additional courses in chemistry may be elected upon approval of the dean.

A description of the courses taught in the chemistry department is listed elsewhere in this catalogue.

*If the laboratory for bacteriology is completed by the start of the fall term there will be one three hour laboratory in each term of bacteriology. These credits will be 3+3.

160
ENGLISH

The pharmacist must use both oral and written English. In order to communicate clearly and adequately with the wholesaler, manufacturer, medical practitioner, layman, state boards, the government, and to prepare papers for clubs, articles for magazines and local newspapers, or advertising, the ability to speak and write English is essential.

English 101, 102, and 102a are required of all pharmacy students. Public Speaking, English Grammar and Business Communications may be elected. A description of these courses will be found elsewhere in this catalogue.

HEALTH AND PHYSICAL EDUCATION

Some form of physical activity is required of all students during the first two years of residence in the University. The nature of the work will depend upon the needs of the individual as revealed by a careful examination.

The pharmacist should learn the fundamentals of personal and general hygiene that he may be able to maintain a high degree of efficiency during and after college life and to assist in the promotion of public health as outlined by the United States Public Health Service.

Courses 115, 117, and 158 in Health and Physical Education may be used as electives on approval of the dean. A complete description of these courses will be found under courses of Health in another part of this catalogue.

MATHEMATICS

Mathematics are of the utmost importance to a pharmacist; inaccuracies in computations have led to serious results. All pharmacy students are required to take Mathematics 101 and 103 or their equivalents and a specially designed course in Pharmacy Arithmetic described as Pharmacy 104.

Students desiring to pursue a major in chemistry should take additional course in mathematics, subject to approval by the Dean. A description of the required courses and other suitable electives in this field will be found elsewhere in this catalogue.

MODERN FOREIGN LANGUAGES

Many texts and periodicals to pharmacy and the allied sciences are published in a foreign language. In order to meet the demand of students who desire a knowledge of a foreign language for reading, con-
versational, or business purposes, appropriate courses are offered. If a student expects to do graduate work, he should have a working knowledge of at least two foreign languages, French and German.

A description of courses in modern language is listed elsewhere in this catalogue.

PHARMACEUTICAL CHEMISTRY

201. DRUG ASSAY 1. 3 + 6  
Fall, 5 hours
A course involving the theories and methods utilized in gravimetric assay procedures of inorganic chemicals of the U.S.P. and N.F. and some of the more common procedures using organic precipitants. The latter part of the quarter introduces volumetric theories. Prerequisites: Chemistry 101, 102, and 103.  
Mr. Smith

202. DRUG ASSAY 2. 3 + 6  
Winter, 5 hours
A continuation of the theories and methods involved in volumetric procedures. The latter part of the quarter is devoted to physical methods employed in determining the purity of substances by refractometric, alcolholometric, colorimetric and polarimetric means. Laboratory exercises are used to emphasize these determinations. Prerequisites: Chemistry 101, 102, and 103.  
Mr. Smith

203. DRUG ASSAY 3. 3 + 6  
Spring, 5 hours
A continuation of both physical and chemical constants carried out on organic material of the U.S.P. and N.F. A study of the proximate assays of official drugs and preparations being emphasized. Laboratory procedures to correlate the above discussions are made. Prerequisites: Pharmaceutical Chemistry 201, 202, and Chemistry 206 and 207.  
Mr. Smith

251. INORGANIC CHEMICALS 3 + 0  
Fall, 3 hours
A study of the preparation, reactions, solubility, tests for purity and identity of the inorganic chemicals of the U.S.P. and N.F. A brief discussion of the more important non-official chemicals is made. Incompatibilities, action and uses given. Prerequisites: Chemistry 101, 102, 103, Pharm. Chem. 201 and 202.  
Mr. Smith

252. INORGANIC AND ORGANIC CHEMICALS 3 + 0  
Winter, 5 hours
The inorganic chemical study is completed, then the study of the U.S.P. and N.F. alkaloids and alkaloidal salts are made. Trade names are listed for any preparation or substance found in this group. Prerequisites: Chemistry 103 and 208.  
Mr. Smith

253. ORGANIC CHEMICALS 3 + 0  
Spring, 5 hours
A study of the non-alkaloidal organic chemicals, vitamins, hormones, antibiotics, and fixed and volatile oils are made as to synthesis, prepara-
tions, reactions, solubility, identity, action and dose. Trade names used are listed and studied. Prerequisites: Chemistry 103 and 208.

**MR. SMITH**

261. BIOCHEMISTRY 1. 3 + 3

An introductory course on the chemistry of fats, proteins, and carbohydrates with appropriate laboratory work correlated to the lecture and discussions. Prerequisites: Organic chemistry, quantitative chemistry or its equivalent.

**MR. SCHLOSSER**

262. BIOCHEMISTRY 2. 3 + 3

A study of the chemistry of digestion, metabolism, blood and urine is made along with appropriate laboratory procedures with special emphasis on urine and blood analysis. Prerequisites: Physiology and Biochemistry 1.

**MR. SCHLOSSER**

263. BIOCHEMISTRY 3. 3 + 3

A study of the vitamins, hormones, sterols and enzymes. A continuation of blood analysis is carried out in the laboratory. Prerequisites: Biochemistry 262.

**MR. SCHLOSSER**

275. CHEMISTRY PROBLEMS

Any Quarter (el) 2 or 3 hours

The title and character of the course is dependent upon the problem. This course is designed to stimulate introductory research work. Open to seniors only.

**MR. SMITH or MR. SCHLOSSER**

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**PHARMACEUTICAL ECONOMICS**

264. BUSINESS MANAGEMENT 3 + 0

A course in drug store business methods. Attention is given to arrangement of fixtures and stock, sources of supplies, distribution to the physician, dentist, veterinarian, the public, hospitals, and to other phases of business essential to successful drug store management.

**MR. SCHLOSSER**

253. ECONOMICS FOR PHARMACY STUDENTS 3 + 0

A course in theory and problems in economics especially designed for Pharmacy students.

**DR. OTTE**

254. PHARMACEUTICAL LAWS 3 + 0

A study of the federal, state and local acts, laws, and regulations governing the practice of Pharmacy and the sale of potent and habit forming drugs. Government bulletins and pamphlets are issued to students so that they will become acquainted with said laws.

**MR. SCHLOSSER**
PHARMACOGNOSY

151. CRUDE DRUGS 3 + 2

Crude drugs of botanical origin are studied both microscopically and macroscopically in the laboratory along with accompanying lectures and discussions of their nomenclature, origin, collection and preservation. A study of the plant, part used, physical and chemical properties, identification, adulterants, uses, doses and preparations are made. Attention is given to powdered drugs as well as to the whole drug. This course discusses drugs derived from the Pteridophytes, Gymnosperms, monocotyledons and a few dicotyledons. Prerequisites: College Biology.

Mr. Clark

152. CRUDE DRUGS 3 + 2

A continuation of Pharmacognosy 151 on the remaining dicotyledonous drugs. Prerequisites: Pharmacognosy 151.

Mr. Clark

153. CRUDE DRUGS 3 + 2

Crude drugs of the lower botanical groups such as those derived from algae, fungi and lichens. The antibiotics such as Penicillin, Chloromycetin, Terramycin, et cetera are discussed. The latter part of the course deals with drugs obtained from the animal kingdom. Prerequisites: Pharmacognosy 152.

Mr. Clark

275. PHARMACOGNOSY PROBLEMS

Any Quarter (el) 3 to 5 hours

A course of special problems along advanced lines in the field, open to juniors and seniors who have shown ability to carry them to a satisfactory completion. Hours and time of work to be arranged.

Mr. Clark

PHARMACOLOGY

In order that the pharmacist may be better prepared to discuss certain phases of dynamics of drugs with members of the various professional groups engaged in health service and to have a better background for the critical examinations of prescriptions, a knowledge of pharmacology and its allied branches is a prime essential. The following courses of study are designed to meet these fundamental requirements.

201. PHARMACOLOGY 5 + 0

A course in the basic principles of the action of drugs and the basic principles used to combat overdosage. The mechanism of action of the more common drugs used for the treatment of the skin and mucous membranes; the antiseptics, germicides, anthelmintics, gastric antacids and cathartics are the major items considered. Prerequisites: Physiology, Chemistry 101, 102, 206, 207 and 208; and Pharmacognosy.

Mr. Raabe
202. PHARMACOLOGY 5 + 0  
Winter, 5 hours  
A study of the action, use and dosage of the common drugs affecting the central and peripheral nervous systems; such as stimulants, sedatives, anesthetics, analgesics, antipyretics and hypnotics. Prerequisites: Pharmacology 201.  
Mr. Raabe

203. PHARMACOLOGY 5 + 0  
Spring, 5 hours  
A study of the drugs acting on the cardiovascular system, the diuretics, hematins, hormones, vitamins, and bacteriologicals.  
Mr. Raabe

In the above courses laboratory assignments will be carried out if suitable apparatus is on hand. Lecture demonstrations are given for some of the more important drugs and preparations studied.

*251. BIOLOGICAL ASSAYING  
(col) 3 to 5 hours  
Attention is given to biological assay methods and standardization of the U.S.P. and N.F. drugs that are satisfactorily evaluated by this method. Time arranged. Prerequisites: Physiology and Drug Assay.  
Mr. Raabe and Staff

275. PHARMACOLOGY PROBLEMS  
Any Quarter (col) 1 to 5 hours  
A course in special problems open to students of advanced standing who have shown the ability to carry them to completion. Hours and credit arranged.  
Mr. Raabe and Staff

PHARMACY

101. FUNDAMENTALS 3 + 0  
Fall, 3 hours  
This course is designed to give the student a good foundation for the further study of pharmacy. The aim is to acquaint the student with the Code of Ethics of the profession, the reference books and literature on pharmacy and allied sciences, and to discuss the scientific principles upon which pharmaceutical operations are based.  
Mr. Raabe

104. PHARMACEUTICAL CALCULATIONS 3 + 0  
Winter or Spring 3 hours  
A course in calculations pertaining to pharmacy. The student is taught current weights and measures, applications of proportion, alligation, specific gravity, specific volume, thermometer scales, percentage solution, commercial discounts and elementary chemical problems common to pharmacy. Prerequisites: A practical knowledge of the fundamentals of arithmetic.  
Mr. Raabe

105. HISTORY OF PHARMACY 3 + 0  
Fall, 3 hours  
A survey of the ancient, medieval, and modern practices and ideals of the profession of pharmacy. This course is mainly cultural. Lectures and discussions.  
Mr. Hanna

*Not being taught in 1961-1952.
201. PHARMACEUTICAL PREPARATIONS 3 + 6
Waters, syrups, spirits, solutions, injections, decoctions, infusions, mucilages, glycerites and other aqueous preparations. Prerequisites: Pharmacy 101; Chemistry 101, 102, and 103. Mr. Jongeward

202. PHARMACEUTICAL PREPARATIONS 3 + 6
Mixtures, magmas and gels, soaps, oleates, liniments, lotions, sprays, ointments, cerates, pastes, plasters, cataplasms, suppositories and other semi-solid preparations. Pharmacy 101; Chemistry 101, 102, and 103. Mr. Jongeward

203. PHARMACEUTICAL PREPARATIONS 3 + 6
A continuation of the two previous courses with special attention given to emulsions and colloids; extraction procedures employed in pharmacy, e.g. tinctures, fluidextracts, extracts, masses, pills, solid preparations and others not studied previously. Prerequisites: Pharmacy 203. Mr. Jongeward

In the courses of Pharmaceutical preparations, a comprehensive study is made of the preparations official in the latest U.S.P. and N.F. As far as possible the use and function of each ingredient used in preparations are studied. The relationship of pharmacognosy and chemistry, both inorganic and organic, to the manufacturing of these official preparations are stressed. Evidence of spoilage, methods of storage, preservation and the appearance of the finished product are stressed. Lectures, recitations and laboratory. Representative examples of the various classes of preparations are made in the laboratory.

204. MANUFACTURING PHARMACY 2 + 3
Any Quarter, 3 hours
(One term of manufacturing pharmacy is required of all senior students. The class will be limited to twenty-four students each term.)

Commercial preparations and pharmaceuticals commonly used are studied along with problems in manufacturing tablets, granular salts, cosmetics, and flavoring and coloring agents. In the laboratory, preparations are made for the student health center, the athletic department, as well as for many others on a semi-commercial basis. Prerequisites: Pharmacy 201, 202, 203; General and Organic Chemistry. Mr. Schlosser

251. PRESCRIPTION PRACTICE 2 + 3
Fall, 3 hours

252. PRESCRIPTION PRACTICE 2 + 3
Winter, 3 hours

253. PRESCRIPTION PRACTICE 2 + 3
Spring, 3 hours
A course in the art of compounding and dispensing prescriptions. A thorough study is made of the prescription and the various phases it goes through from the time the physician writes this order until it has been placed on file for future reference. A brief study of Latin and Latin contractions used in prescription writing; the incompatibilities
that may occur and the best methods of avoiding these incompatibilities are studied.

In recitation the actual prescriptions are studied to enable the student to better understand the possible incompatibilities that may arise and how to overcome this abnormality before the prescription is compounded. The different classes of the newer compounds and synthetics are studied to determine their effects upon the older and more common combinations. The different classes of pharmaceutical preparations are reviewed to study their effects upon the composition of the finished prescription. Prerequisites: Pharmacy 201, 202, 203, General and Organic Chemistry.

261. NEW AND NON-OFFICIAL REMEDIES 3 + 0 (EL) Fall, 3 hours

262. NEW AND NON-OFFICIAL REMEDIES 3 + 0 (EL) Winter, 3 hours

Courses in the new and unofficial remedies which have been accepted by the Council on Chemistry and Pharmacy of the American Medical Association as well as the newer medicinals and preparations of the leading manufacturers which have not been accepted by the Council.

275. PHARMACY PROBLEMS Any Quarter (EL) 1 to 5 hours
Minor investigations for qualified students. Credit and fee depend upon the nature of work attempted.

299. ADVANCED SURVEY 3 + 0 Spring, 3 hours

287. PHYSICS

It is impossible to comprehend many of the changes which occur in the manufacture of Pharmaceutical preparations without having a knowledge of the science of physics. All Pharmacy students are required to take Physics 109 and 110 or their equivalents and may elect Physics 111. For a complete description of these courses see the write ups under "Physics" in another section of this catalogue.

PHYSIOLOGY

151. PHYSIOLOGY 4 + 0 Spring, 4 hours

152. PHYSIOLOGY 4 + 0 Fall, 4 hours

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.

MR. HANNA
WARREN G. HARDING COLLEGE OF LAW

CLAUDE WESCOAT PETTIT
Dean

HISTORY

The College of Law was organized as a department of the University in 1885, and has been in continuous operation since that date. It numbers among its alumni and former students many of the most prominent lawyers in Ohio and other states. Its graduates have been successful beyond the average as candidates for admission to the Bar at the State Examinations and as practitioners afterwards.

AFFILIATIONS

The College holds membership in the League of Ohio Law Schools, and is fully approved by the League.

The College of Law is also provisionally approved, as of September 9, 1948, by the American Bar Association, subject to reinspection.

BEGINNING LAW STUDENTS

Law students who are commencing the study of law start at the beginning of the Fall quarter. Only rarely will beginning students be admitted to the Winter and Spring quarters.

The right is reserved to make such changes in the curriculum and the order in which courses are given as may be necessary.

The curriculum herein presented for beginning students for the first three quarters in residence, is established for those who enter in the Fall quarter, and the indicated sequence of courses will be followed for all other students, so far as possible.

PURPOSE

In keeping with the avowed purpose of Ohio Northern University it was the aim of our Law College founders, which continued through the ensuing years, to afford an opportunity for students, both men and women, to obtain a collegiate training in law. The courses are planned primarily to train students for the practice of law in any jurisdiction in
which they may meet the requirements for admission. Such courses may also be pursued advantageously by anyone desiring to acquire a knowledge of the principles and history of law, either as a part of a liberal education, or as part of the foundation of a career in government or in business.

Courses are offered in all subjects included in the Ohio Bar examination, and various electives may be pursued in the course of study.

Tuition rates are reasonable and by reason of the location of the school in a small community, the living costs are comparatively low.

Among the advantages offered by Ohio Northern's Law College are small classes, opportunity for frequent class participation, individual contact with instructors both in and out of the classroom, and a small community environment conducive to good study habits.

In training students for the practice of law, the College of Law has four chief objectives:

1. To inculcate the principles of legal ethics and of the lawyer's public responsibility, so that the student as a lawyer may be worthy to take his place as a trusted leader and counselor in his community.

2. To inculcate a systematic and complete grounding in the history and fundamental principles of the common law and statute law including the more important statutes and decided cases of Ohio.

3. To develop proficiency in the application of the principles of law to the complicated relations, rights and duties arising in modern society through the training of the powers of analysis, discernment and judgment.

4. To show the place, importance, and aims of the law in society.

PRIZES, SCHOLARSHIPS, AND LOAN FUNDS

Beginning with the academic year, 1949-50, The Land Title Guarantee and Trust Company, Cleveland, Ohio, offers an annual prize of $75.00 to the first-year student in real property, who achieves the highest average grade in the two quarters, and $25.00 to the second highest student.

The Rutter-Taggart Scholarship consists of the income from the sum of $2,500.00, and is given annually to students who are in need of financial assistance, and who have attained standing in the upper third of their class. Preference in awarding this scholarship is given to students in the College of Law.

A limited number of worthy students who are members of the Methodist Church may secure loans from the Student Loan Fund administered by the Board of Education of that Church. Christian char-
acter, 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.

Other sources of student loan funds are available. Inquiry may be made at the office of the Dean of the University.

**LAW SCHOOL ORGANIZATIONS**

All students, upon admission to the law school, become members of the Junior Bar Association, an organization, which undertakes student activities of general interest and importance to the law school and its program. Quarterly dues are seventy-five cents.

Delta Theta Phi and Sigma Delta Kappa, national law school fraternities, are represented by chapters in the law school.

Two other organizations, membership in which is highly prized by law students, are the Toastmasters Club and Les Avocats. Their purpose is to develop the skills necessary for effective public speaking.

There are musical, debating, and dramatic societies and other organizations on the campus to which any student in the College of Law is eligible.

**SCHOOLS REPRESENTED**

An ever increasing proportion of our law students have secured their pre-legal education at colleges and universities other than Ohio Northern University. Many of these are coming with the bachelor's degree or its equivalent. Among the colleges and universities contributing to the pre-legal education of our students in the past are the following: Ashland College, Baldwin-Wallace, Bowling Green, Colgate, Defiance, Denison University, Depauw, Duquesne University, De Sales College, Fenn College, Geneva, Harvard, Heidelberg, Hillsdale, Hiram, John Carroll University, Kenyon, Kent State, Marshall College, Miami, Missouri, Mt. Union, Muskingum College, Northwestern, Ohio University, Ohio State University, Ohio Wesleyan University, Pittsburgh, Purdue, Rio Grande, Swarthmore, Toledo University, University of Cincinnati, University of Dayton, University of Kentucky, University of Michigan, Michigan State College, University of Southern California, University of Virginia, University of West Virginia, University of Wisconsin, Vincennes University, Virginia Military Institute, George Washington University, Washington and Lee University, Western Reserve University, Western State Teachers College, Wilmington College, Wittenberg College, Wooster, Youngstown College, and Yale University.
BUILDING AND EQUIPMENT

The College of Law is located in a handsome two story building, built of ornamental brick in the classical style, erected in the year 1923. This building was especially designed to meet the requirements of the College of Law, and contains classrooms, professional offices, library, and reading rooms.

LIBRARY

The law library is up-to-date, modern, and well selected. It contains the reports of the courts of last resort of the States, the United States Supreme Court Reports, the Federal Reports, the Reporter System, a complete set of English reports, the more important series of special reports and selected cases, a collection of the latest editions of standard text books, leading legal periodicals, digests, the leading encyclopedias of law, and other works of reference. The library is accessible each week day, the students being allowed free access to the books.

The material included in the library complies with law library requirements of the American Bar Association.

METHODS OF INSTRUCTION

Instruction is based upon the case-book method. To the cases found in the case-book are added selected cases from Ohio and other jurisdictions. The lecture hour includes a thorough questioning of the students upon the cases studied and informal discussions by instructors and students upon the underlying and distinguishing principles illustrated by the cases.

ADMISSION

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

1. CERTIFICATE. To enter the first year of law the requirements are (1) graduation from a first grade high school and (2) two full years of collegiate study (60 semester hours or 90 quarter hours exclusive of physical education, military science, and courses without definite intellectual content) in an approved college of liberal arts in accordance with the rules of that institution. It is further required that the scholarship average of the applicant must not be below the graduating average of the institution from which he comes.

Beginning September 1, 1952, a student admitted to the College of Law must (1) be a graduate from a first grade high school and (2) have three full years of collegiate study (90 semester hours or 135 quarter hours exclusive of physical education, military science, and
courses without definite intellectual content) in an approved college of liberal arts in accordance with the rules of that institution. It is further required that the scholarship average of the applicant must not be below the graduating average of the institution from which he comes.

A student desiring to enroll in the College of Law should cause to be sent to the University Director of Admissions at least ten days prior to the beginning of the quarter, his transcript of collegiate work in duplicate. These papers must be on file, both for admission to the College of Law and for registration as a law student upon the rolls of the Supreme Court of Ohio. In no case can a deficiency in pre-law study be made up concurrently with the work of the College of Law. The right is reserved to reject any applicant.

2. Advanced Standing. Advanced credit is given for not more than two years of law study in residence at any reputable law school in the United States maintaining a three-year full-time course.

3. Special Student. Persons who are not candidates for a degree and who have sufficient education and experience to study law with profit may enter the College of Law as special students with the approval of the Dean, even though they cannot meet the entrance requirements for a degree. Any one desiring to enter as a special student or to secure fuller information in regard to preliminary education should write to the University Director of Admissions or the Dean of the College of Law. Such special students will not be eligible for the bar examination in Ohio and many other states.

PRE-LAW AND ARTS-LAW COURSES

The College of Liberal Arts offers favorable opportunities to the student in preparing for the study of law.

The Pre-Law course offered not only meets the requirements set by the Supreme Court of the State of Ohio as to the preliminary education that every student must have before beginning the study of law, but is especially planned to help the student to prepare properly for such an undertaking.

The Arts-Law course is designed for the student who desires the degree of Bachelor of Arts and the degree of Bachelor of Laws. By taking this course, which extends over a period of six years, the student not only meets the requirements set by the Supreme Court of the State of Ohio but in addition thereto is entitled to receive the degrees indicated.

For further information about these courses, the student is referred to the Liberal Arts section of this catalogue.

GRADUATION

The degree of Bachelor of Law is conferred on students who have completed satisfactorily a total of one hundred twenty-five quarter hours
including all the prescribed courses and certain required courses for which no credit hours are given, or who have received credit therefor in accordance with the section entitled Advanced Standing, and who have studied in residence at this College for at least three quarters immediately preceding graduation, and who have at least one quality point average for every credit hour.

GENERAL REGULATIONS

1. Students may select from the courses offered such works as they desire, with the approval of the Dean, not to exceed a maximum of 16 credit hours per quarter. Special students may not become candidates for a degree.

2. Hours above 16 are considered excess and are subject to special tuition rates. Only in exceptional cases are regular students allowed excess hours.

3. In the section of the general catalogue dealing with Administration are found rules and regulations pertaining to chapel and class attendance, registration, and preregistration, government, withdrawing courses, warning and probation, eligibility for extra-curricular activities, examinations, grade marks and quality points. Chapel and assembly attendance twice each week are required of all students in the University.

4. Expenses, tuition, fees, living costs, and housing are likewise described in an earlier section of this catalogue.

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

CLASSIFICATION

The minimum requirements for junior standing are 38 credit hours and a point average of 1.0, for senior standing, 80 credit hours and a point average of 1.0.

OTHER ADVANTAGES

There are musical, debating, and dramatic societies and other organizations on the campus to which any student in the College of Law is eligible.

SUMMER SCHOOL

The College of Law offers courses during the Summer School. It is expected that the regular curriculum will be followed by veteran students, since summer courses are limited in number.
The work of the first year is all required. Second and third year courses are all required except those separately designated as electives, which are open to both second and third year students subject to the provision that a student may not elect to exceed fifteen hours in any quarter in which elective courses are open to him, unless approved by the Dean.

<table>
<thead>
<tr>
<th>FALL QUARTER</th>
<th>WINTER QUARTER</th>
<th>SPRING QUARTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common Law Pleading</td>
<td>Contracts II</td>
<td>Agency</td>
</tr>
<tr>
<td>Contracts I</td>
<td>Real Property I</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>Legal Bibliography</td>
<td>Torts II</td>
<td>Real Property II</td>
</tr>
<tr>
<td>Personal Property</td>
<td></td>
<td>Moot Court</td>
</tr>
<tr>
<td>Torts I</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constitutional Law I</td>
<td>Restitution</td>
<td>Evidence II</td>
</tr>
<tr>
<td>Partnership</td>
<td>Constitutional Law II</td>
<td>Private Corporations II</td>
</tr>
<tr>
<td>Equity</td>
<td>Evidence I</td>
<td>Electives</td>
</tr>
<tr>
<td>Wills</td>
<td>Domestic Relations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Private Corporations I</td>
<td></td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code Pleading I</td>
<td>Code Pleading II</td>
<td>Trial and Appellate</td>
</tr>
<tr>
<td>Conflict of Laws</td>
<td>Legal Pleading II</td>
<td>Practice II</td>
</tr>
<tr>
<td>Electives</td>
<td>Negotiable Instruments</td>
<td>Trusts II</td>
</tr>
<tr>
<td></td>
<td>Practice Court</td>
<td>Electives</td>
</tr>
<tr>
<td></td>
<td>Trial and Appellate</td>
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DESCRIPTION OF COURSES

FIRST YEAR

ALL COURSES REQUIRED

AGENCY

The nature and purpose of agency relation, parties, methods of creating the relationship, authority and capacity, the duties and liabilities arising from the relationship; also a consideration of workman's compensation legislation and other phases of the subject of master and servant. Mechem, Cases On the Law of Agency (3rd Edition).

COMMON LAW PLEADING

This course embraces a discussion of the nature and purposes of pleading, emphasizing the connection between pleading and the history and development of the Common Law. Keigwin, Cases On Common Law Pleading.

CONTRACTS I

CONTRACTS II

Fundamental courses dealing with the nature of a contract; the capacity of the parties, offer and acceptance; consideration, requisites of contracts under seal; the performance of contracts, including conditions and impossibility of performance; the discharge of contracts; rights of beneficiaries, joint and several contracts; assignment of contracts; illegal contracts and the statute of frauds. Shepherd, Cases and Materials on Contracts (2nd Edition).

CRIMINAL LAW

This course treats of the theories of crime and punishment; the criminal act and mental element in crime; specific offenses at common law and as developed by statutes; appropriate defenses in relation to the specific crimes; parties. Hall, Cases On Criminal Law and Procedure (2nd Edition).

LEGAL BIBLIOGRAPHY

This course is required but no credit is given for it toward graduation. The purpose is to give the student training in the use of law books and in finding the law. The course must be completed to the satisfaction of the instructor. Pollock, Legal Research and Materials, (Ohio Edition).

MOOT COURT

Students participate in a moot case which has reached the appellate level, by writing briefs and making oral arguments before an appellate court which consists of upperclass students. This course is required but gives no credit toward graduation.

175
PERSONAL PROPERTY

This course deals with the distinction between real and personal property; of the title to personal property and its transfer by agreement and by operation of law; its use and liabilities arising therefrom. Aigler, Bigelow, and Powell, *Cases on Property*, Vol. 1.

REAL PROPERTY

This course treats of the historical origin of land law, tenure, seisin, the differentiations of estates in land, titles and their transfer by act of the parties and operation of law. Aigler, Bigelow and Powell, *Cases on Property*, Vol. 1.

REAL PROPERTY II

This course deals with rights in air, water, easements, covenants running with the land, leases, rents, waste, and public rights. Aigler, Bigelow and Powell, *Cases on Property*, Vol II.

TORTS I

3 hours

TORTS II

This course includes a consideration of the bases and extent of legal liability for invasions of various interests of personality and property with especial attention given to wrongs, such as assault, battery, false imprisonment, trespass upon realty and personality, conversion, deceit, defamation, malicious prosecution, injuries resulting from negligence, injuries intentionally inflicted and liability without fault. An analysis is made of the various concepts of importance in this field of the law, such as intention, malice, legal right and wrong, negligence and proximate causation. Bohlen and Harper, *Cases on Torts* (4th Edition).

SECOND YEAR

CONSTITUTIONAL LAW I

3 hours

CONSTITUTIONAL LAW II

Courses include the interpretation of the constitutional limitations for the protection of life, liberty and property, police power, taxation, eminent domain, obligation of contract; and a consideration of the law of the American Federal system, with especial reference to inter-state commerce, the powers of Congress and the jurisdiction of the federal courts. Dodds, *Cases on Constitutional Law* (4th Edition).

DOMESTIC RELATIONS

A study of the law of marriage and divorce, parent and child, the rights and liabilities of husband and wife, the rights and liabilities of
infants, including a study of statutory material. Jacobs, *Cases On Domestic Relations*.

**EQUITY**

This course involves the consideration of the rise of the court of equity, the powers of the court, the principles governing the exercise of equitable jurisdiction, and the equitable remedies of injunction, bills of peace, bills of interpleader, bills to remove cloud from title, declaratory, judgments, and specific performance. Cook, *Cases on Equity* (4th Edition).

**EVIDENCE I**

**EVIDENCE II**

An examination of contemporary rules of evidence relating to burden of proof and presumptions, judicial notice, the examination of witnesses, competency and privilege, and illegally obtained evidence, followed by a careful development of the opinion rule, the hearsay rule and its exceptions and the best evidence rule. Morgan and Maguire, *Cases On Evidence* (2nd Edition).

**PARTNERSHIP**

The law governing partnership ventures, including their formation, individual and firm liability to creditors, marshalling of assets in equity and priorities as between individual and firm creditors. Gilmore, *Cases on Partnership*.

**PRIVATE CORPORATIONS I**

**PRIVATE CORPORATIONS II**

This course treats of the characteristics of private corporations, including their formation, powers, rights, and liabilities, the rights and liability of stockholders, and of officers and directors, and the rights of creditors against the corporation and its officers. Ballantine and Lattin, *Cases on Corporations*.

**RESTITUTION**

This course deals with a study of the remedies of quasi-contract, equitable accounting, constructive trust, equitable lien, rescission and reformation, and the legal and equitable remedies available in cases of misrepresentation, fraud, partially performed agreements, mistake, illegality, defective capacity and duress. Durfee and Dawson, *Cases on Restitution*.

**WILLS AND ADMINISTRATION OF ESTATES**

This course treats of the nature of testamentary disposition and intestacy. Mechan and Atkinson, *Cases on Wills and Administration* (3rd Edition).
THIRD YEAR

CODE PLEADING I  
3 hours

CODE PLEADING II  
3 hours

This course deals with parties, joinder and splitting of causes of action, the petition, answer, reply, demurer, amended and supplemental pleadings and motion practice as these problems have developed under the code provisions of the various states. Special emphasis is placed on the Federal Rules of Procedure. Sunderland, *Cases on Code Pleading* (2nd Edition).

CONFLICT OF LAWS  
5 hours

This course treats of the principles of private international law; jurisdiction of courts; the choice of law governing torts, contracts, divorse, transfers of property by deed; will and intestate succession; penal statutes; marriage, adoption, domicile, foreign judgments and such procedural matters as statutes of frauds and of limitations. Lorenzen, *Cases and Materials on Conflict of Laws* (5th Edition).

LEGAL ETHICS  
1 hour

This course treats of the rules of conduct governing the lawyer in the practice of his profession. This course must be completed to the satisfaction of the instructor, although no credit toward graduation is given. Cheatham, *Cases and Materials on the Legal Profession*.

NEGOTIABLE INVESTMENTS  
5 hours

This course involves the consideration of the general principles governing bills of exchange, promissory notes and checks, and the uniform negotiable instruments law. Smith and Moore, *Cases and Materials on Bills and Notes* (4th Edition).

TRIAL AND APPELLATE PRACTICE  
5 hours

Principles controlling the trial practice of civil actions; laying a foundation for review; methods and problems of procedure on review and disposition upon review. Hunter's *Cases*.

PRACTICE COURT  

Students participate in a mock trial, beginning with the preparation and filing of the pleadings and continuing through the actual trial which is conducted in the courtroom of the Law College where either faculty members or outside lawyers act as judges. This course is required but gives no credit toward graduation.

TRUSTS I  
3 hours

TRUSTS II  
3 hours

These courses treat of the origin and development in courts of equity of the law and trusts and trustees. Scott, *Cases on Trusts* (3rd Edition).
ELECTIVE COURSES

ADMINISTRATIVE LAW 3 hours
This course deals with the powers and procedure of administrative agencies in this country. It includes a consideration of the nature of the power vested in administrative bodies, distinction between legislative, judicial and executive powers, conclusiveness of administrative determinations, the requirement of due process, and the extent of judicial control over administrative action. Gellhorn, Administrative Law Cases and Comments (2nd Edition).

CREDITORS’ RIGHTS 4 hours
This course includes a study of fraudulent conveyances, creditors agreements, receiverships and the administration of bankrupt estates. Hanna and McLaughlin, Cases on Creditors Rights, Vol. I.

DAMAGES 2 hours
In this course the rules governing the measure of damages in actions founded on contract and tort are considered. Crane, Cases on Damages (2nd Edition).

LEGAL DRAFTSMANSHIP 1 hour
Designed to give the student practice in the drafting of the more common legal instruments.

FUTURE INTERESTS 3 hours

INSURANCE 3 hours
This course includes the nature and requisites of the contract, parties, insurable interest, premiums, representations and warranties, agents and their powers, waiver, and estoppel, rights under the policy, a study of the standard fire policies, life insurance, marine and accident. Case book to be announced.

LABOR LAW 2 hours
This course includes a study of the right to organize the union; the process of collective bargaining; the legality of strikes, lockouts and boycotts; the interest of the public in labor disputes; legislative intervention, with emphasis on the National Labor Relations Act as amended by the Taft-Hartley law. Case book to be announced.

MORTGAGES 3 hours
The various theories of the mortgage including the historical evolution thereof in equity; recording statutes, and other problems in connection with the law of mortgages. Campbell, Cases on Mortgages (2nd Edition).
SALES

The topics included in this course are the contract for delivery of goods, the statute of frauds, the passing of the property, fraud and retention of possession, illegality, condition and warranties, performance, rights of the seller and buyer in case of breach. Bogart, *Cases on Sales* (2nd Edition).

FEDERAL TAXATION

This course deals with the constitutional foundation of the major federal taxes—excise, gift, estate and income taxes. Griswold, *Cases and Materials on Federal Taxation*.

MUNICIPAL CORPORATIONS

This course treats of the formation of and legislative control over public corporations (primarily cities and villages), the powers of such corporations with respect to public welfare, licenses and franchises, appropriations, indebtedness, contracts and special assessments, and the liability of such corporations in tort and contract. Stason, *Cases on Municipal Corporations* (2nd Edition).

SURETYSHIP

This course includes the creation of the relationship, the contract, the statute of frauds, the rights and remedies, the defenses, guaranty contracts, and letters of credit, private and corporate sureties, and incidentally a consideration of the different kinds of bonds. Case book to be announced.
# DEPARTMENTAL FEES

## BIOLOGY

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181
### CIVIL ENGINEERING

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Organ Rent (per quarter for 5 practice hours per week) $20.00
Organ Rent (per quarter for 5 practice hours per week) 12.00
Piano Rent (per credit hour) per quarter (includes practice room) 2.00
Choir Fee per quarter 1.00
Band Fee per quarter 1.00
Orchestra Fee per quarter 1.00
Voice (accompanying instrument and practice room) per credit hour 2.00
Instruments (accompanying instrument and practice room) per credit hour 2.00

PRIVATE LESSONS FOR NON-MUSIC MAJORS (per quarter) fees additional to the above Voice, Piano, Organ, Instrumental:

Two Lessons per week $45.00
One Lesson per week 25.00
Single Lesson 2.50

SPEECH AND THEATER ARTS

121 Fundamentals of Acting 3 Hours $3.00
122 Acting II 3 Hours 3.00
222 Acting III 3 Hours 3.00
123 Theater Dialects 3 Hours 3.00
124 Makeup 3 Hours 3.00
126 Fundamentals of Stage Craft 3 Hours 3.00
127 Scenic Design 3 Hours 3.00
128 Stage Lighting 3 Hours 3.00
129 Costume 3 Hours 3.00
131 Fundamentals of Play Production 3 Hours 2.00
231 Theater Workshop 1 Hour 1.00
233 The Community Theater 3 Hours 3.00
234 The Business of the Theater 3 Hours 3.00
235 Church Drama 3 Hours 3.00
281 Radio Workshop 1 Hour 1.00
CITATIONS ANNOUNCED ON UNIVERSITY RECOGNITION DAY MAY 16, 1950

GENERAL SENIOR HONORS BASED ON SCHOLARSHIP

College of Liberal Arts.......................... Florence Weishampel
College of Engineering.......................... John T. Huesken
College of Law................................. Perry George Wise
College of Pharmacy............................ Sarah Louise Marble

DEPARTMENTAL HONORS

COLLEGE OF LIBERAL ARTS

Biology ................................................. Robert Whetstone
Business Administration ......................... Herbert L. Fisher
Business Education ................................ Waneta Ransbottom
Education ............................................ Frederick Dale Basinger
English .................................................. Florence Weishampel
                                             Howard E. Hunter
French .................................................. Howard E. Hunter
German .................................................. Dean L. Cochensparger
Health and Physical Education .................... Beverly Kennedy
                                             William Brinkmeyer
History and Political Science ..................... Walter Paul Brown
Industrial Arts ..................................... Melvyn Arthur
Mathematics .......................................... Donald F. Eppley
Music
   Vocal ............................................... Russell Willeke
   Instrumental .................................... Robert Woll
Physics ............................................... Donald F. Eppley
                                             Richard Sorgen
Religion and Philosophy .......................... Walter Paul Brown
Speech and Theater Arts .......................... Richard Suhr
                                             Florence Weishampel

185
Civil Engineering ................................. Robert O. Wiley
Electrical Engineering ............................ Bernard Eley
Mechanical Engineering ............................ Otto Maier

COLLEGE OF LAW

Senior Honors ..................................... Perry George Wise
Junior Honors ..................................... Joseph Robert Bryan
Freshman Honors .................................. Eugene Barry Fox

COLLEGE OF PHARMACY

HONORS AND AWARDS

Lehn and Fink Medal ............................... Sarah Louise Marble
Pharmacognosy ...................................... Melville S. Fryer
Pharmacy ............................................ James O. Helm, Gerald A. Will
Ohio State Pharmaceutical Association Awards .... Dominick Chaten,
                                   Harry Friedman, Richard L. Dennis
HONORARY DEGREES CONFERRED MAY 28, 1950

GEORGE W. HERD .................................................. Doctor of Divinity
EDWIN L. MORRELL .................................................. Doctor of Humane Letters
HAROLD J. BOWERS .................................................. Doctor of Pedagogy
WALTER S. JACKSON .................................................. Doctor of Laws
EARLE B. TILTON .................................................. Doctor of Laws
J. BOYD DAVIS .................................................. Doctor of Business Administration
CHARLES F. KETTERING ........................................... Doctor of Humanities

GRADUATES OF 1950

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

FALL

Howard J. Blasey ............... Connellsville, Pa.
Louis D. Brentlinger ............ Ada
Alfred Dahlinger ............... Ft. Jennings
John Milton Elliott ............ Ada
Jack L. Graham ............... Marion
Clyde F. Kidd ............... Forest
William L. Miller ............... Sherwood
Floyd E. Roush ............... Lima
Lucile I. Shenk ............... Elida
Robert Turnbull ............... Lima
Merle E. Wirt ............... Ada

WINTER

Richard D. Cotner ............... Lima
Ernest H. Evans ............... Celina
Rodney W. Gordon ............... New Monmouth, N.J.
David W. Humphreys ............. Columbus Grove
Dan M. Kubic ............... McKeensport, Pa.
C. Elrod Lenhart ............. McKeensport, Pa.
Samuel Marsico ............... Elyria
Joseph Matolich ............... Lorain
Royce G. Nicholas ............... Lima
Donald C. Rideout ............... Roseland, N.J.

SPRING

Jeanne Rouss Baker ............... Newburgh, N.Y.
James O. Banks ............... Ada
Robert G. Blank ............... Lima
Walter Paul Brown** ............. Jeromesville
Anthony Caltagirone ............. Lowellville
Wesley Clarke ............... Cincinnati
Dean L. Cochensparger* ......... Lafayette
Herbert Cox ............... Arcanum
Forest D. Davault ............... Jeromesville
Herbert L. Fisher* ............... Wellington
Barbara J. Getter ............... Ada
Thaddeus S. Gilliland ............. Lima
Jay E. Graber ............... Plain City
Harold E. Grover ............... Toledo
Richard J. Hadaway ............... Elyria
Eugene P. MacDonald ............. New Concord
Raymond J. Manahan ............. Lima
Russell O. Miller ............... Lima
Eldon R. Nonnamaker ............... Rawson
Robert G. Powell ............... Elyria
Randall E. Roberson ............... Ada
John A. Stager ............... Springfield
Iris Jane Swetland ............. Belle Center
James B. West ............... Gary, Ind.
Robert E. Whetstone ............... Lima
SUMMER

Robert L. Burns...........................Lima
Collin B. High..............................Ohio City
Max C. Hitt*.................................Bryan
Delbert Lattia...............................Lima

Denzel R. Lovely............................Lima
John V. MacDowell.............................Akron
Donald M. O'Brien............................West Union
William D. Peppler...........................Ada

BACHELOR OF SCIENCE IN EDUCATION

FALL

Robert J. Boop..............................Lima
William H. Brinkmeyer*......................Lima
Robert S. Carpenter............................Ostrander
Juanita Breese Evans..........................Columbus
Robert J. Gobin..............................Ada

Bernard E. Kauffman........................Lisbon
Phyllis W. Sheets*............................Warsaw
Gerald R. Shuster.............................Ada
William E. Smyth............................University Hgts.
George C. Williams............................Utica

WINTER

Jack D. Blose...............................Lima
Ned Wylie Bush**............................Botkins
James Clark, Jr.............................Alger
Paul D. Crosby...............................Payne
James W. Glase...............................Toledo
William J. Hayden...........................Canton
James L. Hoffman............................Paulding

Bernice Kauffman............................East Liverpool
Shirley Sneary Knox..........................Lima
Marjorie Hart McHugh........................Dayton
Betty Carr Moore..............................Alliance
Edith Shanely.................................Sidney

SPRING

Melvyn C. Arthur............................Lafayette
Janice Bachert...............................Buffalo, N.Y.
Robert L. Bowden............................Ada
Cloyd B. Byer.................................Ohio City
Jeanne K. Clark..............................Alger
Eloise Crawford..............................Ada
Willia M. Creps..............................Ada
Kenneth H. Dahill............................Toronto

William E. Johnson..........................Lorain
Beverly Rose Kennedy........................Marysville
Donna J. Mattmuller..........................Geauga Lake
Ralph E. Pollock..............................Galion
Jack H. Rolfs*................................Lima
Carroll J. St. Louis..........................Toledo
Frank W. Sanderson...........................Ada
John E. Sandy................................Lima
Hazel R. Schott...............................Lima

Norbert W. Davis............................Lima
Elaine A. Shanan..............................Dayton
Mark L. Emerick.............................Lafayette
Robert E. Simms.............................Lima

Mary E. Johnson..............................Lima
Dorothy M. Plaugher..........................Akron
Thelma Rakewska..............................Napoleon
Wineta Ruth Ransbottom........................Lafayette
Milton Shank.................................Attica

Florence E. Weishampel**....................Ada
Virginia T. White...........................Garfield Hgts.
Russell E. Willeke...........................Dola

SUMMER

Dale F. Basinger**..........................Columbus Grove
Mathilda Benny...............................Lima
Stanley Bogdan...............................Cleveland
Louis D. Brentlinger............................Ada
Welcome O. Burns...........................Ansonia
Opal A. Campbell............................Lima

Florence Core...............................Spencerville
Margaret Crosson...........................Lima
Theodore Dennison............................LaRue
John M. Elliott...............................Ada
Violet Carver.................................Forest
Martha Lou Godwin...........................Mason
Evrone L. Hefner.............................Lima
Zoe Herash...................................Continental

Nora Ogan....................................Columbus
Katherine W. Miller..........................Clyde
Dorothy M. Plaugher..........................Akron
Thelma Rakewska..............................Napoleon
Wineta Ruth Ransbottom........................Lafayette
Milton Shank.................................Attica

Noah O. Shenk...............................Delphos
Leona M. Shough.............................West Mansfield
Charles Strasbaugh..........................West Unity
Richard M. Suhr*..............................Ada
Dorothy J. Telfer..............................Detroit, Mich.
Kahtoma S. Turner............................Lima
Paul Webster.................................Miamisburg
Winona Winegardner..........................Waynesfield
Robert A. Woll..............................Lima
COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

FALL
Richard R. Dixon..................................Lima
Joseph V. Hall.....................................Newark
Elroy B. Kitzler..................................Carey

Robert A. Knox..................................Connecticut
Russell C. Shively#...............................Harrisburg, Pa.

WINTER
Sidney N. Blinder..................................Elizabeth, N.J.


SPRING
Edwin A. Denzel..................................Port Washington, N.Y.
John C. Dixon..................................Connellsville, Pa.

Robert O. Wiley*..................................Byesville

SUMMER
Ervin E. Rohm..................................Vanderbilt, Pa.

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

FALL
Michael R. Cardone...............................Rochester, N.Y.
Howard J. Dewalt..................................Galion
Bernard Eley........................................Ada

Donald W. Hofman..................................Lima
Robert D. Parish..................................Arlington

WINTER
Wayne Frost........................................Findlay
Richard E. Meffley.................................Lima

Cray Graydon Witt..................................Connellsville, Pa.

SPRING
John H. Collier.................................Rochester, N.Y.
Richard E. Craig..................................Kenton
Ted Gilder..........................................Elyria
William J. Haines.................................Lima
Dale W. Mitchell..................................Bellfontaine

Richard Reinhart..................................Nevada
Loyal Rueswegger, Jr..............................Canton
Stephen W. Stanford...............................Massillon
Marion F. Walls..................................Springfield

SUMMER
Ralph R. Kuhn..................................Jeannette, Pa.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

FALL
Ernest J. Balchuk.................................Cleveland
Kenneth S. Cook..................................Ada
James E. Dawson.................................Mansfield
Richard Drollinger..............................Marion

T. J. France.......................................Crooksville
Otto H. Maier....................................Massillon
Irvin W. Strayer.................................Spencerville

WINTER
Rolland R. Brown.................................Findlay
William J. Duffy.................................Lima
John L. Fate.......................................Mt. Gilead

Theodore W. Marshall...........................Lima
Thomas B. Marshall...............................Lima
William R. Stevens...............................Connellsville, Pa.

SPRING
Richard D. Clover...............................Harrord

Kenneth G. Prentice..............................Ashtabula
### BACHELOR OF SCIENCE IN PHARMACY

#### FALL

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Donald J. Bloker</td>
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<td>Sara L. Marble*</td>
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#### WINTER

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<td>Russell L. Cunningham</td>
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<td>Jerry H. Rymer</td>
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#### BACHELOR OF SCIENCE IN PHARMACY

#### SPRING

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<td>J. Lynn Anderson</td>
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SUMMER

Daryl C. Allen........................................Cincinnati
Frank R. Anast.....................................Findlay
Garry Baun..........................................Youngstown
Richard E. Caligiuri...............................Pittsburgh, Pa.
John K. Denton......................................Owingsville, Ky.
Jack L. Ewan.........................................Bryan
Charles Ray Houser................................Dayton
Leo Murphy...........................................Lima
John W. Stentzel.................................Ann Arbor, Mich.
Donald N. Stoldt.................................Bellevue
Virgil Wiechart.................................Lima

COLLEGE OF LAW

BACHELOR OF LAWS

FALL

Harry C. Bogart....................................Elyria
Richard E. Cheney................................Lima
Richard J. Clark....................................East Liverpool
John O. Costine....................................St. Clairsville
Harold E. DeHoff..................................Canton
Frederick R. Eichelberger.........................Fostoria
Dare S. Flickinger................................Seville
Fred F. Fox.........................................Caldwell
Charles R. Gould..................................Canton
Max Hitt............................................Bryan
Walter Hunt.........................................Lima
Wayne E. Johnson..................................Ada
David Kirschenbaum...............................Cleveland
Leonard J. Kline...................................Lima
Frank A. Koenig....................................Wapakoneta
James K. Leedy.....................................Shreve
Charles Littleton..................................Findlay
Wade H. Lohr.........................................Lima
Robert E. Mabee....................................Mansfield
Belmore T. Martin.................................Ada
Earl H. Moore......................................Dayton
Forest P. Moore....................................Lancaster
Robert C. Neff.....................................Willard
Charles C. Norton.................................Fremont
John G. Peterson.................................New Concord
Brown W. Pettit**.................................Ada
Clarence C. Richard...............................Bucyrus
Harold F. Rodocker...............................Hicksville
Bettye L. Russell**.................................Canton
John T. Russell...................................Gallipolis
Alner D. Ryan......................................Lima
John D. Sears, Jr..................................Bucyrus
Warren F. Sheets..................................Crown City
John D. Starn.................................Greenfield
Walter E. Thayer..................................Conneaut
Brooks G. Trueblood...............................Montpelier
Earl A. White.................................Findlay
Perry G. Wise**.................................Van Wert

WINTER

Richard Agnos......................................Lima
John L. Chambers.................................Geneva

SPRING

Joseph Mallone.................................Geneva

SUMMARY OF THE GRADUATES 1949-50

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<th>Degree</th>
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*With Distinction
**With High Distinction
#Degree granted posthumously
FRESMEN

Adams, George E. ................................................. Youngstown
Allen, Neil L. ................................................. Delphos
Ammen, Ruth ................................................... Sidney
Arthur, Mary Anne .............................................. Gomer
Bailey, Harry Jr. ............................................... Bellefontaine
Bailey, Robert G. .............................................. Kenton
Ball, Charles E. ................................................ Findlay
Barnes, Joseph E. ............................................... Portsmouth
Barnes, Ronald C. ............................................... Lewistown
Battles, Loren E. ............................................... Ada
Baughman, Eugene .............................................. Willoughby
Bealer, Evangeline .............................................. Ridgeway
Beavers, Bruce .................................................. Columbus
Bell, Ann .......................................................... Sidney
Binkley, Harmon F. ............................................. Ada
Black, Donald W. ................................................ Willshire
Blackburn, Mary M. .............................................. Gordon, W.Va.
Bolts, Gerald E. ................................................ Uhrichsville
Bradford, Roland N. ............................................ Xenia
Branan, Russell L. .............................................. Arlington
Breck, Harlan W. ................................................ Cleveland
Brust, Gloria ....................................................... Powell
Bunger, Norma ................................................... Lewisburg
Caltagirone, Josephine ......................................... Louisville
Casement, Theodore .............................................. Jamestown, N.Y.
Chamberlin, Betty L. ........................................... Bellecenter
Clene, Jean Shirley ............................................. Rockford, Ill.
Cline, Paul W. Jr. ............................................... Upper Sandusky
Colvin, Robert .................................................. Wapakoneta
Crosier, Robert B. .............................................. Cleveland
Damore, Carl J. .................................................. Youngstown
Darling, Herbert W. ............................................. Lima
Davis, Jack ....................................................... LaRue
Davis, John Drury ............................................... Glouster
Davis, John Sherman .......................................... Delphos
Davis, Leonard .................................................. Cleveland
Davis, Miriam G. ............................................... Lafayette
Davis, Virginia C. ............................................... Delphos
Decker, Jack D. .................................................. Kenton
Dehn, Ralph ...................................................... Oak Harbor
DelBene, Norene M. ............................................. Girard
Diehl, Charles H. ............................................... Marysville
Diehl, Frank H. .................................................. Marysville
Dister, Audrey Ruth ............................................ Hamilton
Dodd, Carl Quentin ............................................. Cardington
Drake, Helen Corinne .......................................... Toledo

Earl Robert ...................................................... Cairo
Ellis, Donald E. ................................................ Marion
Essi, David F. ................................................... Lakewood
Exline, Marilyn L. .............................................. Forest
Exline, Robert L. ............................................... Forest
Faber, Richard V. ............................................... Dayton
Flick, William Lee .............................................. Lima
Freeman, John R. ............................................... Lima
Grase, Davis ..................................................... Carnegie, Pa.
Graham, Ruta McPeek .......................................... Marion
Gremling, Francis E. ........................................... Lima
Grigg, Larry M. .................................................. Sidney
Grimes, David Lee .............................................. Marysville
Grubaugh, Joan .................................................. Lima
Haines, Thomas P. .............................................. Lima
Hakes, Teddy Lee ............................................... Willshire
Hanes, Adrian Richard ......................................... Ada
Hare, James Wilford .......................................... Bellefontaine
Harris, Donald J. ............................................... Lima
Harrod, Janet .................................................... Ada
Harruff, Vernon W. ............................................. Spencerville
Hart, Gilmon ..................................................... Columbus
Hedges, Robert J. ............................................... Lancaster
Helmingo, Russell L. .......................................... Jackson Center
Helser, Theima Marie .......................................... Lima
Herrmann, Samuel S. .......................................... Lima
Hinds, James G. .................................................. Lima
Hoblet, Donald Lee ............................................. Willsboro
Holt, John H. ..................................................... Bueyru
Hoyt, James G. .................................................. Lima
Huntsman, Clair ................................................ Leipsic
Imsande, Roger J. .............................................. Cincinnati
Irons, Allen Ray ............................................... Mt. Gilead
James, Harriett E. ............................................. Uhrichsville
Jenkins, John R. ................................................ Lancaster
Johnson, Florice Ellen ........................................ Paulding
Jones, Donald C. ................................................ Canton
Jones, Miriam Lou ............................................... Kenton
Kain, Richard D. ................................................ Findlay
Kaminski, Dolores .............................................. Sidney
Keeling, Billy L. ............................................... Ada
Keenan, Robert A. .............................................. Meadville, Pa.
Kling, Donald C. ................................................ Cleveland
Kluts, Boyce R. .................................................. Lima
Koch, Franklin R. .............................................. Wapakoneta
Kohil, Rowena B. ............................................... Lima
Krummrey, Paul E. .............................................. McGuffey
Kruse, David H. ........................................ Lima
Kurtz, George ........................................ Lima
Landwehr, Bernard J. ................................. Delphos
LaRue, Stella .......................................... Ada
Lauckhof, Joan ......................................... Haviland
Lawrence, Robert H. ................................ Lakewood
Longworth, Erry Dee ................................ Findlay
McAlpin, Marilyn ...................................... Harpster
McMahon, Rosemary ................................... Ada
McMillen, Evonda ...................................... Ada
McPeek, Lewis D. ..................................... Marion
McPherson, Glenn E. ................................ Beach City
Maddox, William ....................................... Parma Hts.
Marcus, Edwin P. ..................................... Cleveland
Maxwell, Jean Isobel ................................ Lockwood
Messick, Robert W. .................................... Ada
Metzger, Irene ......................................... Ft. Jennings
Miller, Robert I. ...................................... Euclid
Miller, Sam H. ......................................... Youngstown
Miller, William R. .................................... Youngstown
Moritz, Ray N. ......................................... Lima
Morrison, Susan ....................................... Lima
Morse, Sarah ............................................ Milford Center
Moser, Arden D. ....................................... Upper Sandusky
Moyer, Warren E. ...................................... Cairo
Neal, William K. ..................................... Mt. Gilead
O'Brien, Georgia ...................................... Carey
O'Connor, John J. ...................................... Lima
Parks, James A. ........................................ Berea
Pavlik, Robert P. ...................................... McKeeverport, Pa.
Pendon, Robert ......................................... Marion
Pearce, Harold W. ..................................... Kinsman
Perry, Elmer G. ........................................ Lima
Polen, Harold E. ...................................... Dennison
Poole, Richard D. ..................................... Vinton, Va.
Prince, Clarence Jr. ................................ Lima
Rasul, Robert S. ..................................... Flossmoor, Ill.
Reed, David D. ........................................ Akron
Riggs, Eldon L. ........................................ Muskogee, Okla.
Ritchie, Harriett ...................................... Mt. Healthy
Robisch, Edwin J. Jr. ................................. Marion
Roberts, John R. ...................................... Ada
Ronsini, Joseph C. .................................... Newburgh, N. Y.
Rupert, Robert L. .................................... Spencerville
Scherr, Jerry E. ....................................... Cleveland
Schertzer, Ruth ........................................ Marion
Schinderwolf, Kenneth L. ............................ Kenton
Schlickman, Dixie ..................................... Willshire
Schrock, Ronald J. .................................... Orrville

Schunn, R. Paul ....................................... Youngstown
Schwalger, Joseph J. ................................. Sidney
Sebaskecs, Donald A. ................................. Lima
Sevits, Barbara M. .................................... Lima
Shadley, Pauline ....................................... Ada
Shaffer, James E. ..................................... Lima
Sheldon, Thomas L. .................................... Dunkirk
Shunkwiler, William .................................. Willoughby
Simpson, Joan .......................................... Findlay
Simpson, Richard T. .................................. Conneaut
Sinn, Betty ............................................. Convoy
Sloban, Milton ......................................... Cleveland
Smarsley, Bernard S. ................................. Cleveland
Smith, Jane Ann ....................................... Wapakoneta
Smittle, Jack D. ...................................... Steubenville
Spees, Beatrice ........................................ Buckland
Spencer, David W. .................................... Lima
Spencer, Frances ....................................... Marysville
Spira, Joseph Z. ....................................... Cleveland
Spirk, Joseph A. ........................................ Ada
Stanfield, John R. ..................................... Lorain
Stedcke, Lois ........................................... Celina
Steveley, Robert E. ................................... Buckland
Stober, Claude A. ..................................... Kenton
Stokes, Ralph L. ....................................... Bellecenter
Stralka, Kenneth ...................................... Garfield Hts.
Sullivan, William J. .................................. Ada
Swaim, Donald D. ..................................... Lima
Swonger, James E. ..................................... Lima
Swope, John O. ......................................... London
Teclemeyer, Sue ......................................... Zanesville
Thomas, Jane ........................................... Mendon
Thorne, Jane ........................................... Richwood
Tullis, Douglas V. ..................................... Lima
Turner, Charles E. .................................... Alliance
Tym, Jonathan ........................................... St. Petersburg, Fla.
Utz, Robert ............................................. Lima
Walker, Gerald ......................................... Akron
Wallace, James M. ..................................... Lancaster
Webber, Margaret Ann ................................ Lakewood
Wetherell, Ira D. ..................................... Lima
White, Eugene M. ..................................... Risingsun
Wiseman, Lois F. ...................................... Jeffersonville
Wolfe, Gerald .......................................... Plain City
Wolfe, Willis ............................................ Baltimore
Woodard, Ann M. ...................................... Dunkirk
Wormley, Frances ...................................... Kenton
Yarnovic, John M. ..................................... McKeeverport, Pa.
Yost, Robert J. ........................................ Lima

COLLEGE OF ENGINEERING

FRESHMEN

Barnett, Thomas R. ..................................... Dunkirk
Beck, John Vincent ................................... Sidney
Beebe, Ralph C. Jr. ................................... Lima

Behringer, Fredric J. ................................. Defiance
Boden, Ronald M. ..................................... Newburgh, N. Y.
Bricker, Malcolm S. .................................. Cambridge
COLLEGE OF PHARMACY

FRESHMEN

Abbott, John J., Jr. .................................. Youngstown
Almendinger, John H. ................................. Norwalk
Asman, Sally ........................................ Marysville
Baird, Robert F. ....................................... Youngstown
Blackburn, Lecoy ..................................... Wapakoneta
Brown, Gerald .......................................... Waverly
Brown, Nancy L. ........................................ Rawson
Carlozi, Matthew, Jr. ................................. Campbell
Carter, Donald J. ....................................... Kenton
Conrad, Richard ....................................... Sidney
Cramer, Max ............................................ Springfield
Dennwitz, Kenneth C. ................................. Chillicothe
Eddy, John H. ........................................... Ada
Edgerton, Richard T. .................................. Salem
Finley, James .......................................... McComb
Fischer, Fred W., Jr. .................................. Wapakoneta
Forsyth, David ........................................ Wheeling, W.Va.
Franklin, Gilbert H. ................................. University Hgts.
Gellman, Irvin M. ..................................... Cleveland
Gray, Patricia .......................................... Findlay
Gray, Robert S. ......................................... Youngstown
Halpert, Nathan N. .................................... Cleveland
Happensack, James J. ................................. Dayton
Haugen, Laverne D. ................................... DeGraff
Hofmann, Earl M. ...................................... Lima
Kahn, Fred ............................................. Cleveland
Keener, David R. ....................................... West Salem
McCarthy, William R. ................................. Marysville
McCracken, Jack H. ................................... Bentleyville, Pa.
Micaak, Robert V. ..................................... Lorain
Miller, Stanley L. ..................................... Terrace Park
Miskin, Charlotte ..................................... Barberton
Mobley, Leonard J. ................................... Akron
Moore, James W. ...................................... Washington C. H.
Muskoff, Betty Mae .................................. Wooster
Nicholas, Joy A. ........................................ Warren
Pashin, Alvin .......................................... University Hgts.
Peoples, Richard M. .................................. Loudonville
Persinger, Charles A. ................................ Poco, W.Va.
Prins, Rudy F. ......................................... Niles
Reynolds, James S. ................................... Barberton
Rice, Lawrence A. .................................... Warren
Ritzman, Walter S. ................................... Barberton
Salzman, Norris T. ................................... Carrollton
Schechter, Morton ..................................... Springfield
Sano, David P. ......................................... Youngstown
Sebek, Albert A. ....................................... Cleveland
Seeley, Preston ........................................ Barberton
Simon, Leland M. ..................................... Lowellville
Smalles, Thomas A. ................................... Coshocton
Sommers, Chester ..................................... Lucasville
Steele, Donald P. ...................................... Springfield
Stell, James W. ......................................... Zanesville
Slyer, John T. .......................................... Canton
Van Over, Edwin F. .................................. Akron
Weyrauch, John A. .................................... Dayton
Wolfe, George ......................................... Niles
COLLEGE OF LAW

1st-Year

Arter, John C. Jr. -------------- Marion
Asperger, John N. -------------- Youngstown
Bader, Barney -------------- Ada
Battista, Thomas V. -------------- Canton
Baumhart, Charles -------------- Vermillion
Conway, Robert W. -------------- London
Cox, Herbert -------------- Arcanum
DiBlasio, Henry A. -------------- Youngstown
Diegel, Lewis W. -------------- Springfield
Durand, George T. -------------- Massillon
Evans, John R. -------------- Lima
Faires, Dano -------------- Ada
Fowler, Peter W. -------------- Springfield
Fox, Charles R. -------------- East Palestine
Fox, Eugene B. -------------- Youngstown
Frey, James -------------- Elmira
Gelep, Alex P. -------------- Dayton
Goldberg, Irvin J. -------------- Youngstown
Halferty, William -------------- Youngstown
Hawekotte, James -------------- Dayton
Hazard, John W. -------------- Caldwell
Hildebrand, Dale G. -------------- Shaeuck
Hummel, John B. -------------- Akron
Ingram, John G. -------------- Youngstown
Jones, Floyd E. -------------- Lima
Keech, Dart F. Jr. -------------- Elyria
Kelly, John H. -------------- Lima
Laibe, Wilbur -------------- Ada
Laughlin, Neil -------------- Seio
Leiken, Jerome -------------- Cleveland
Leskovansky, John J. -------------- Youngstown
Loughran, James J. -------------- Detroit, Mich.
McCullough, George -------------- Cincinnati
McKown, Robert -------------- Plymouth
MeMahan, Mary Joan -------------- Ada
McNay, Robert J. -------------- Dayton
Marks, Donald L. -------------- Rootstown
Maxwell, Robert G. -------------- Ada
Mays, Madalyn -------------- Ashland
Merrow, Donald L. -------------- Akron
Miller, Russell O. -------------- Ada
Morrison, Clayton H. -------------- Sycamore Valley
Nash, Donald -------------- Grand Rapids, Mich.
Nolan, Robert L. -------------- Dayton
Parsons, Glenn C. -------------- North Baltimore
Payne, William T. -------------- New Concord
Perry, Robert H. -------------- Leipsic
Powell, William G. -------------- Brilliant
Rathman, William E. -------------- Middletown
Ritenour, John H. -------------- Ashtabula
Roberts, Charles F. -------------- Payne
Robinson, James K. -------------- Bellefontaine
Rossi, Dan Louis -------------- Youngstown
Sernon, Vincent -------------- Youngstown
Shaw, Robert C. -------------- Xenia
Short, Frank C. -------------- Dayton
Solomon, Aurel -------------- Canton
Stephens, Jerry O. -------------- Canfield
Talbot, Harold B. -------------- Morristown
Taylor, Edwin C. -------------- Lockwood
Truman, Lewis N. -------------- Findlay
Turk, Victor C. -------------- North Baltimore
Vos, Joseph -------------- Elizabeth, N. J.
Way, Robert C. -------------- Dayton
Wiedemann, William -------------- Marion
Wingerter, Harold J. -------------- Malvern
Wisegorng, John W. -------------- Napperville, Ind.

COLLEGE OF LIBERAL ARTS

SOPHOMORES

Barber, James H. -------------- Ford Cliff, Pa.
Beall, Paul E. -------------- Harrod
Blue, Marlon E. -------------- Kenton
Brewer, Walter F. -------------- Cincinnati
Brickner, Robert -------------- Cuyahoga Falls
Brookhart, Nancy -------------- Celina
Brown, Kenneth -------------- Bradford
Buchanan, Richard M. -------------- Pulaski, Pa.
Burgen, Russell -------------- Lewisburg
Butterfield, William -------------- Lima
Casey, Thomas W. -------------- Upper Sandusky
Clark, Edward F. -------------- Lima
Clark, Harold -------------- Gettyburg

Claypool, Jesse D. -------------- Kenton
Coll, Neal A. -------------- Lima
Cole, Margaret -------------- Wadsworth
Cook, Jack D. -------------- Lima
Devers, Gene -------------- Dayton
Dixon, Douglas -------------- Lakewood
Dodson, James H. Jr. -------------- Lima
Dunn, Charles M. -------------- Marion
Durstchi, Herbert -------------- Ada
Enoch, Robert -------------- Lima
Ewing, James -------------- Bluffton
Fink, Samuel W. -------------- Arlington
Finn, John B. -------------- Lima
Gamble, Robert J.  Van Wert  Lima
Galary, Don  Willshire  Lima
Gilmore, Patrick  Ada  Lima
Gobin, James R.  Ada  Lima
Gossard, Evelyn  Ada  Lima
Gratz, Emil  Beaverdam  Lima
Gross, Danny  Lima  Lima
Gruber, Edward  Lima  Lima
Hemsaeth, Emily  Ada  Ada
Hindall, Shirley  Ada  Lima
Hoff, James  Lima  Lima
Holland, Reba  Kenton  Lima
Howbert, Janice  Ada  Lima
Hoyt, Harold L.  Conneaut  Lima
Huggner, Mary M.  Lima  Lima
Irvin, Robert A.  Marion  Bucyrus
Jenkins, Marilyn  Lima  Lima
Johns, Charles E.  Toledo  Lima
Johnson, Malcolm  Delphos  Lima
Jones, C. Richard  Warren  Lima
Keffer, Howard  Fayette  Lima
King, Lawrence A.  Lima  Lima
Klein, Charles F.  Bucyrus  Lima
Knausden, Marilyn  Osborn  Lima
Lamb, Jacqueline  Ada  Lima
Lambright, Maxie J.  Lima  Lima
Laughlin, James  Lima  Lima
Lewis, Martin  Marion  Lima
Lomen, Earl P.  Akron  Lima
Lowrie, Richard  Lorain  Lima
Lutz, Phyllis  Lima  Lima
McGinnis, Howard M.  Bellecenter  Lima
McHenry, JoAnn  Minerva  Lima
McMillen, Ruth  Ada  Lima
McOmber, Billy M.  Convoy  Lima
Malcom, Mary  Lima  Lima
Margolis, Howard  Cleveland  Lima
Marshall, Charles E.  Crestline  Lima
Maurer, Earl H.  Apple Creek  Lima
Mayers, Charles  Lima  Lima
Meffley, John  Lima  Lima
Michael, Anne  Maumee  Lima
Miller, Catherine Ann  Ada  Lima
Miller, William C.  Mt. Healthy  Lima
Nedro, Lois  Geneva  Lima
Nicholas, Winona  Ada  Lima
O'Conner, Michael D.  Lima  Lima
O'Neil, James C.  Marion  Lima
Overmeyer, Edwin  Lakewood  Lima
Poince, Kent  Tipp City  Lima
Preston, Thomas E.  Van Wert  Lima
Richards, Don R.  Lima  Lima
Riley, Nancy  Bellefontaine  Lima
Roethlisberger, Robert  Lima  Lima
Roush, Richard L.  Springfield  Lima
Salisbury, Mary Jane  Lima  Lima
Shanely, Richard L.  Piqua  Lima
Shepard, Norman L.  Ada  Lima
Shively, Robert  Cincinnati  Lima
Sibbiring, Donald  Zanesville  Lima
Smith, Jacqueline  Alber  Lima
Smith, Joseph W.  Bellaire  Lima
Starr, James L.  Aliquippa, Pa.  Lima
Stokes, Joseph K.  Bellecenter  Lima
Stuckey, John  Marion  Lima
Thomson, Pearl Marie  Forest  Lima
Tucker, Carl  Van Wert  Lima
Ulmer, Janet  Marion  Lima
Vail, Mary Lou  Iberia  Lima
Van Dyne, Charles  Ada  Lima
Waltermire, Dean  Findlay  Lima
Webster, George L.  Sandusky  Lima
Whitaker, Marjorie  Alber  Lima
Whittenberger, Charles  Dayton  Lima
Wiedemann, Robert  Ada  Lima
Winkler, Gerald  Lima  Lima
Yokum, Joan  Ridgeway  Lima
Zurz, Richard V.  Akron  Lima

<table>
<thead>
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<th>CLASS OF 1920</th>
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<tbody>
<tr>
<td>Anderson, Charles G.  Cleveland  Marion</td>
</tr>
<tr>
<td>Barrett, Robert  Beaver, Pa.  Rio Piedras, P.R.</td>
</tr>
<tr>
<td>Beardley, Ralph H.  Defiance  Davis, Miguel A.</td>
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<td>Betcher, Joseph  Sidney  Davis, Merrill E.</td>
</tr>
<tr>
<td>Bond, Robert K.  Mt. Blanchard  Sidney, E.</td>
</tr>
<tr>
<td>Brutzer, Walter  Lima  Brecksville, Canton</td>
</tr>
<tr>
<td>Buxton, Dale  Kenton  Fisk, Charles T.</td>
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<tr>
<td>Covert, Paul  Tiffin  Goldin, Edward L.</td>
</tr>
<tr>
<td>Croushore, Gerald  Wilmerding, Pa.  Newburgh, N.Y.</td>
</tr>
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<td>Curtis, Jack F.  Zanesville  Grigsby, Norman E.</td>
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<td>Cusick, John  Marion  Johnson, David W.</td>
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<tr>
<td>Davila, Miguel A.  Rio Piedras, P.R.  Snyder, N.Y.</td>
</tr>
<tr>
<td>Davis, Merrill E.  Sidney  Sukle, E.</td>
</tr>
<tr>
<td>Duchae, Neil E.  Brecksville, Canton  Emrick, Jonathan</td>
</tr>
<tr>
<td>Erdos, Joe  Canton  Ada  Edwards, James E.</td>
</tr>
<tr>
<td>Fisk, Charles T.  Newrak  Goldin, Edward L.</td>
</tr>
<tr>
<td>Grigsby, Norman E.  Lima  Johnson, David W.</td>
</tr>
</tbody>
</table>
Kille, Robert W. ........................................ Conneaut
Koski, Robert ........................................ Ashtabula
Krajewiak, Fred J. ..................................... Lima
Krantz, Charles .......................................... Findlay
Lillie, Roger .............................................. Jefferson
McHugh, William C. ..................................... St. Clairsville
Marker, Harold .......................................... Bradford
Mitchell, Robert A. ..................................... Spencerville
Moorman, Robert W. ..................................... Spencerville
Perry, Robert C. .......................................... W. Salem
Poppe, Richard L. ....................................... Sidney
Porter, E. Dean ........................................... Zanesville
Potts, Walter .............................................. Lima
Retterer, Bernard ........................................ Waldo
Rhoades, Billy .............................................. Lima
Rishel, Richard C. ....................................... Benton Ridge
Roberts, John .............................................. Waldo
St. Louis, Robert J. ..................................... Toledo
Sample, Richard L. .................................... Randolph, N.Y.
Schilling, Everett E. .................................... Zanesville
Schuster, Jack .............................................. Elyria
Sifford, Raymond E. ..................................... Lancaster
Soulier, Marion L. ....................................... Marion
Uhl, Donald ............................................... Van Wert
Vincent, Vernon .......................................... Ada
Williams, David J. ....................................... Van Wert
Williamson, Gilbert ..................................... Weirton, W.Va.
Wright, Charles W. ...................................... Marion

COLLEGE OF PHARMACY

SOPHOMORES

Alwood, William ......................................... Lancaster
Ammon, Robert ........................................... Lima
Ballenger, James E. ...................................... London
Ballentine, Rollin ........................................ New Carlisle
Banford, Donald J. ...................................... Dayton
Baun, Robert .............................................. Youngstown
Belton, Robert E. ......................................... Dayton
Blackburn, Roger ......................................... Zanesville
Bremeyer, Susan .......................................... Upper Sandusky
Calli, Clarence E. ........................................ Akron
Cassale, Mike G. ......................................... McDonald
Clark, John A. ............................................. Cleveland
Combs, Robert W. ....................................... Norwalk
Cope, Donald ............................................... Akron
Crick, Granf Obie ......................................... Ada
Current, Marjorie L. .................................... Dayton
Davis, Robert C. .......................................... Steubenville
Deckard, Robert .......................................... Columbus
Delp, Donald E. ........................................... Dayton
Duncan, Frances Lucille ................................ Smithfield
Drouhard, Vincent L. ..................................... Massillon
Dudek, Alfred ............................................. Youngstown
Dunfee, John ............................................... Bellaire
Foster, Ted L. ............................................. Portsmouth
Fox, William L. ............................................ Cleveland
Fry, Otis F. ................................................... Columbus
Gerber, Eugene ........................................... Shanesville
Gren, George C. ........................................... Akron
Harris, Herbert M. ....................................... University Hts.
Heeter, Eugene A. ....................................... Dayton
Herke, Homer H. .......................................... Cleveland
Herman, Gerald ........................................... Shaker Hts.
Hoffman, Jack L. ......................................... Greentown
Hotaling, Glenn .......................................... Cleveland
Howard, James E. ......................................... Dayton
Jeffries, James R. ....................................... St. Clairsville
Johnson, Richard ........................................ Coralopolis, Pa.
Kindell, Edward .......................................... Bellefontaine
Krasovec, Frank C. ....................................... Cleveland
Lehman, Robert D. ....................................... Orrville
Lehner, Donald E. ......................................... Ada
Lessiter, Donald C. ....................................... Barberton
Lilak, Dorothy ............................................. Lorain
Lilak, Walter ............................................... Lorain
Lonsinger, Charles L. ................................... Bladensburg
McDonald, Donald ........................................ Harpster
McGrew, Geraldine ....................................... Findlayville, Pa.
McMath, Donald ........................................... Uhrichsville
McMillan, George B. Jr. ................................. Minerva
Makoff, Albert ............................................. Cleveland
Mannino, John ............................................. Erieside
Marshall, Robert .......................................... Springfield
Mellott, Theodora .......................................... W. Jefferson
Minardi, Frederick C. .................................. Cuyahoga Falls
Morrison, Carlos T. ...................................... Vinton, Va.
Motl, Jerry L. ............................................. Bedford
Neal, DeMar A. ............................................ Bellaire
Nutter, David A. ........................................... Zanesville
Oehwalt, John ............................................... Ada
Olin, Don .................................................. Garrettsville
Osowski, Casimir ......................................... Cleveland
Pallo, Norman ............................................. Lorain
Patterson, Russell ....................................... Napoleon
Phillips, Marshall ......................................... Mt. Gilead
Pelen, Colleen Mae ....................................... Canton
Price, Carl P. .............................................. McConnellsville
Putterbaugh, Don .......................................... West Milton
Ramsey, Carolyn ............................................ Lima
Richardson, Robert R. .................................. Zanesville
Ridenour, June .................................. Vermilion
Roberts, Roy Lee .................................. Malta
Rudy, Kenneth .................................. New Philadelphia
Schwalger, William R. .......................... Sidney
Shurtz, Frank S. .................................. Zanesville
Soden, Robert B. .................................. Milltown, N.J.
Straight, Robert .................................. Northrup
Sutton, Robert C. .................................. Kinsman
Ullman, Roy F. .................................. Zanesville
Van Strouder, Robert ......................... Kenton

Vedda, Charles .................................. Lakewood
Waggoner, Katherine ............................ Fremont
Wagner, Richard .................................. Orrville
Werely, Richard S. .............................. Marion
Whitaker, John E. .................................. Ada
Witner, Jack E. .................................. Akron
Yankle, William .................................. Youngstown
Young, Don .................................. Chillicothe
Zinkon, Donald .................................. Baltic

COLLEGE OF LIBERAL ARTS

JUNIORS

Albert, Forest E. .................................. Payne
Arn, Donald E. .................................. Canton
Arthur, William P. .............................. Gomer
Artz, Richard .................................. Marion
Baker, Virginia .................................. Dayton
Bastian, Keith A. .................................. Lima
Beck, Max .................................. Lakeview
Blodgett, Mary A. .................................. Lima
Burget, Robert .................................. Elida
Burkholder, William ............................. Lima
Campbell, Ruth .................................. Ada
Casper, Warren .................................. Ada
Coot, Robert .................................. Bluffton
Croft, Robert .................................. Bellevue
Cryder, David R. .................................. Upper Darby, Pa.
Darnell, Loretta .................................. Ada
Donelson, Robert .................................. Carey
DuFresne, Edward .............................. Lima
Elliott, Charles .................................. Ada
Empey, Donald .................................. Bucyrus
Faller, Jean Marie .................................. Akron
Ferrall, Marilyn P. .............................. Ada
George, Eugene E. .................................. North Star
Hamm, Florence .................................. Detroit, Mich.
Heckart, Paul R. .................................. Ada
Hoxter, Hazel M. .................................. Parkman
Huffman, Bonnie Jean .......................... Ada
Jones, Barbara .................................. Lima
Jones, Mary Phyllis ............................. Mt. Gilead
Kelton, Tom .................................. Gallipolis
Kison, Dolores I. .................................. Lima
Kollas, Diane .................................. Akron
Kruse, James J. .................................. Napoleon

Lohr, Ray E. .................................. Logan
Looker, Warren .................................. Lima
McColloch, Jacqueline .......................... Lakewood
McCurdy, Roy .................................. Chesterhill
McCutehen, Dean .................................. Danville
McDonald, George M. ............................. Lima
Markel, Jack .................................. Lima
Mitchell, Donald R. .................................. Barberton
Murphy, Elton L. .................................. DeGraff
Palich, George .................................. Cortland
Quaintance, Mark .................................. Ada
Reese, Ohan .................................. Lafayette
Rentz, William .................................. Dayton
Ricard, Ronald P. .............................. Lima
Ries, F. Donald .................................. Bernardsville, N.J.
Romey, James E. .................................. Lima
Schmelzer, Anne Marie .......................... Lima
Seymour, Edward .................................. South Gate, Calif.
Shearer, Neil .................................. Bradford
Shoup, Grecley .................................. Richwood
Sliemers, Francis A. ............................. Lima
Sorgen, Richard .................................. Ada
Steiger, Carl .................................. Lima
Telfer, Mary Ellen .................................. Detroit, Mich.
Thomas, Catherine .................................. Lakewood
Tinsler, Betty .................................. Ada
Wagner, A. James .................................. Marion
Whiteley, Lucy O. .................................. Ft. Wayne, Ind.
Whittington, Robert ............................. Delphos
Williams, Gerald .................................. Alderson, W.Va.
Wiloughby, Allen .................................. Lima
Wittenberg, Leona .............................. Lima
Wolford, Richard E. .............................. Lima

COLLEGE OF ENGINEERING

JUNIORS

Akin, James .................................. Findlay
Ault, Sterling .................................. Elyria
Bahmer, Edward F. .............................. Defiance

Baker, J. Milton .................................. Newburgh, N.Y.
Banks, Harry Jr. .................................. Ada
Barrett, Paul .................................. Beaver, Pa.
Beck, Orville.................................Sidney
Bosse, Philip................................Ada
Bowersock, John..............................Lima
Breda, William................................Findlay
Chambers, George..............................Ada
Corbin, Maurice...............................New York, N.Y.
Cotzes, Edward J.............................Canton
Counts, Kenneth..............................Lima
D’Innocente, Eugene..........................Lorain
Drake, Robert E................................Toledo
Earley, Ned....................................Cardington
Eley, Rolland E................................Ada
Fortunato, Joseph.........................Youngstown
Freed, Relden A..............................North Baltimore
Fruchey, Richard N.........................Ada
Gard, Harry D................................Elyria
Glick, Herbert H..............................Arlington
Goldenberg, Burton..........................Elizabeth, N.J.
Gordon, Bruce.................................New Moomouth, N.J.
Gordon, Ned...................................Lima
Gossard, Edward..............................Ada
Gray, Charles W..............................Canton
Haren, Earl J................................Canton
Hockett, Charles M..........................Mansfield
Hull, James H.................................Lakeview
Ingle, Donald C..............................Napoleon
Jenkins, Robert J............................Canton
Kaminski, Elton..............................Sidney
Kantrowitz, Harvey.........................New York, N.Y.
Keller, James A..............................Ada
Kevern, John................................Ada
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King, Robert................................Lima
Kohli, Raymond...............................Lima

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Kostecka, Edward J.........................Powhatan Pt.
Kreitler, C, Eugene.........................Warren
Krotz, Richard W............................Cleveland
Lawson, Charles W...........................Lima
Lugibihl, John...............................Bluffton
McMillen, Robert...........................Ada
Mantey, Joseph...............................Venice
Maugerl, Joseph.............................New York, N.Y.
Mellis, Gerald J.............................Brooklyn, N.Y.
Morey, Sheridan.............................Poughkeepsie, N.Y.
Musgrave, Austin R.........................Williamstown
Neidhardt, W. Joe...........................Spencerville
Pats, Norman E..............................Arnold, Pa.
Pochinsky, John..............................Latrobe, Pa.
Reagan, Michael.............................Bluffton
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Smith, David.................................Cleveland
Sonnett, Orville.............................Findlay
Stone, John................................Caledonia
Sutton, Wayne...............................Spencerville
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Ulrich, Robert W.............................Findlay
Voorhees, John E...........................Lima
Watkins, John N.............................Lima
Wills, William, Jr..........................St. Albans, N.Y.
Woodruff, John..............................Pennsgrove, N.J.
Wurster, Glenn..............................Celina

COLLEGE OF PHARMACY

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Anthony, Charles...........................Cleveland
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Bandy, Walter A..............................Alliance
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Blauer, William W............................Mansfield
Bryan, Donald...............................Cleveland
Carrino, Alfred..............................Youngstown
Cole, Ralph.................................Sidney
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Cook, Paul Richard..........................Findlay
Cox, William M...............................Millersburg
Curry, Alton W. Jr...........................Poland
Davis, Beverly..............................Lima
Davis, Richard E............................Warren
Eaken, Robert E.............................Medina

Easterday, James...........................Youngstown
Enkler, Alan R..............................Euclid
Fahey, Lawrence E..........................Steubenville
Fisher, Koehler..............................Akron
Ford, Ralph E...............................Springfield
Friszelle, Robert...........................Portsmouth
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**COLLEGE OF LAW**

**JUNIORS**

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**COLLEGE OF ENGINEERING**

**SENIORS**

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**COLLEGE OF PHARMACY**

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REGISTER OF STUDENTS

Gelfand, Harvey S. Cleveland
Gellman, Paul Cleveland
Gilroy, Everett Harrod
Goldstone, Allen Sharon, Pa.
Gordon, Noel P. Aila
Greene, Joseph A Youngstown
Gusky, Samuel H. Cleveland
Haines, Joy Anne Richwood
Hall, Wallace North Olmstead
Hamscher, Martin Sidney
Hanna, Thomas B. Black Lick, Pa.
Hayes, Sue Washington, C. H.
Heinrich, Elleen Lima
Helm, James Sclotoville
Helson, Kent L. Euclid
Hoefler, Walter L. Dayton
Hornickel, Robert M. Monongahela, Pa.
Houser, Charles Ray Dayton
Hovis, Jack Vern Salem
Hundertmark, Thomas Conneaut
Jackson, Richard Willard
Johnson, Albert Mansfield
Kloetzly, Ross B. Medina
Kreisher, Dale Dover
Lacy, Paul E. Anna
Little, Marilyn LaRue
Lohr, Wade E. Lima
Loofbourrow, James A. Mt. Sterling
Marble, Emory Ashland

Marble, Sarah Ashland
Mattmuller, Matthew Ft. Lauderdale, Fla.
Miller, Charles F. Canton
Mongine, George Lowellville
Mullholand, Jack W. Carey
Murphy, Leo J. Lima
Neeley, Richard Lima
Powell, Edward New Washington
Predmore, U. Mack Zanesville
Remlinger, William T. Delphos
Runyan, Richard J. Kent
Rymer, Jerry St. Clairsville
Schwartz, Martin Shaker Hights.
Seaton, James W. Bucyrus
Seibold, Jerome Dover
Sherwin, Aaron L. Cleveland
Simmermacher, Arthur Crestline
Smucker, Joseph W. Bellefontaine
Snyder, Marvin W. Cleveland
Sperling, Milton T. Cleveland
Stahler, Robert Bellefontaine
Stenzel, John W. Ann Arbor, Mich.
Stoldt, Donald Bellevue
Thomas, Harold Montoursville, Pa.
Wiechart, Virgil Lima
Will, Gerald Delphos
Winkler, Harold New Philadelphia
Winter, Roberta Bellefontaine
Wohl, Jason N. Cleveland

COLLEGE OF LAW

SENIORS

Agnos, Richard E. Lima
Bogart, Harry Elyria
Chambers, John Ada
Cheney, Richard E. Lima
Clark, Richard J. East Liverpool
Costine, John St. Clairsville
DeHoff, Harold E. Canton
Echelbarger, Fred R. Postoria
Flickinger, Dare S. Medina
Fox, Fred F. Caldwell
Gould, Charles Canton
Hitt, Max Bryan
Hunt, Walter Lima
Johnson, Wayne Ada
Kirschbaum, David Cleveland
Kline, Leonard Lima
Kochig, Frank A. Wapakoneta
Leeby, James Shreve
Littleton, Charles Ada
Mabee, Robert E. Mansfield

Mallone, Joseph P. Geneva
Martin, Belmore T. St. Marys
Moore, Earl H. Dayton
Neff, Robert C. Willard
Norton, Charles C. Fremont
Peterson, John New Concord
Pettit, Brown W. Ada
Richard, Clarence C. Bucyrus
Rodocker, Harold Hicknessville
Russell, Betty M. Canton
Russell, John T. Gallipolis
Bryan, Almer Lima
Sears, John D. Ada
Sheets, Warren Crown City
Starn, John D. Ada
Thayer, Walter Conneaut
Trueblood, Brooks G. Montpelier
White, Earl Findlay
Wise, Perry G. Van Wert
COLLEGE OF LIBERAL ARTS

SPECIAL
Arrington, Colleen................................Huntington, W. Va.
Casement, Virginia................................Jamestown, N. Y.
Collier, Pat..........................................Ada
Earl, John E..........................................Lima
Eppley, Norma........................................Bucyrus
Foard, Thomas P.....................................Lima
Gelfand, Dolores G................................Cleveland
Grover, Mary Evelyn.................................Ada
Haines, Louis E........................................Lima
Hawekotte, Julianne.................................Ada
Hudson, Paul..........................................Lima
Hundertmark, Suzanne..............................Conneaut
Jones, Lorenzo.......................................Fostoria
Keeling, Kathryn.....................................Ada

Kennedy, Bettie......................................Warren
Killian, George......................................Wharton
Kiene, Jean W........................................Lima
Loofbourrow, Dea Sue...............................Athens
Mohn, Harvey A.......................................Lima
Mohn, James A........................................Lima
Poff, Glen E..........................................Lima
Schmunk, John D.....................................Findlay
Thacker, George......................................Elyria
Vincent, Miriam......................................Ada
Volkmer, Jack L.......................................Fostoria
Welker, Bernadette.................................Ada
Wolforth, John........................................Fostoria

COLLEGE OF ENGINEERING

SPECIAL
Jennings, Norman..................................Lima
Huff, James..........................................Lima

COLLEGE OF PHARMACY

SPECIAL
Hanna, Myron

EXTENSION STUDENTS

Armstrong, Margaret.................................Lima
Binkley, Cora B......................................Lima
Boyle, Helen B.......................................Lima
Burden, Ida..........................................Wapakoneta
Burkhart, Janice.....................................Pandora
Conner, Colleen......................................Lafayette
Cotner, Mary C.......................................Lima
Crosdon, Margaret..................................Lima
Everett, Dana........................................Columbus Grove
Guy, Mae R...........................................Lima
Hankieh, Ruth........................................Bluffton
Headaphol, Mary E..................................Wapakoneta

Idle, Dorothy........................................Lima
Johnston, Grace......................................Colina
Kah, Carolyn D.......................................Wapakoneta
Lichty, Mary Louise.................................Pandora
Miller, Faith Pauline...............................Pandora
Morris, Margaret....................................Lima
Mowry, Vera P........................................Lima
Schumacher, Gladys.................................Pandora
Shenk, Noah..........................................Elida
Slechter, Edith J.....................................Lima
Weadock, Alice L.....................................Lima
Winegardner, C. A..................................Botkins

SUMMER 1950

COLLEGE OF LIBERAL ARTS

Ammon, Ruth.........................................Sidney
Anspach, Izora.......................................Ada
Arn, Donald E........................................Canton
Arthur, Jocelyn......................................Ada
Arthur, Mary Anne..................................Gomer
Arthur, Mary Margaret..............................Beaverdam
Arthur, Melvyn......................................Beaverdam

Arthur, William P..................................Gomer
Ashton, Betty........................................Lima
Augsberger, Frances.................................Columbus Grove
Bailey, Ivan..........................................Delphos
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Baker, Mary..........................................Maplewood
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Crosson, Margaret ..................................... Lima
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Cumming, Mary .......................................... Wapakoneta
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Dahlil, Harold .......................................... Toronto
Dally, Mildred ........................................... Toledo
Davidson, Alma ........................................ Quincy
Davis, John S ............................................ Delphos
Davis, Virginia C ...................................... Delphos
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Decker, Jack D .......................................... Kenton
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Hickman, Olwen ......................................... Van W.t
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Hindall, Shirley ........................................ Ada
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Hockett, Charles ....................................... Mansfield
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Holtzapple, Ruth ....................................... Ada
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Tanezvezch, Alexander. Mansfield
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Bader, Barney. Ada
Baker, Joseph V. Ada
Beach, Paul D. Arlington
Burkhart, George F. Woodfield
Carpenter, William. Cadiz
Dahling, Alfred. P. Jennings
Dowd, Thomas M. Kenton
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<td>Gallia</td>
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<td>Guernsey</td>
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<td>Hamilton</td>
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<td>Hancock</td>
<td>40</td>
<td>Summit</td>
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<td>Hardin</td>
<td>174</td>
<td>Trumbull</td>
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<td>Harrison</td>
<td>3</td>
<td>Tuscarawas</td>
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<tr>
<td>Henry</td>
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<td>10</td>
<td>Williams</td>
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<td>Lake</td>
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<td>8</td>
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<td><strong>Total</strong></td>
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</table>

<table>
<thead>
<tr>
<th>OUTSIDE OHIO</th>
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</thead>
<tbody>
<tr>
<td>California</td>
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<tr>
<td>Florida</td>
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<tr>
<td>Illinois</td>
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<tr>
<td>Indiana</td>
</tr>
<tr>
<td>Kansas</td>
</tr>
<tr>
<td>Kentucky</td>
</tr>
<tr>
<td>Mexico</td>
</tr>
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<tr>
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</tr>
<tr>
<td>New York</td>
</tr>
<tr>
<td>Oklahoma</td>
</tr>
<tr>
<td>Pennsylvania</td>
</tr>
<tr>
<td>Puerto Rico</td>
</tr>
<tr>
<td>Virginia</td>
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<tr>
<td>West Virginia</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Grand Total: 1393
## INDEX

<table>
<thead>
<tr>
<th>Academic</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Officers</td>
<td>39-40</td>
</tr>
<tr>
<td>Administration and Entrance:</td>
<td></td>
</tr>
<tr>
<td>General</td>
<td>39</td>
</tr>
<tr>
<td>Engineering</td>
<td>139-140</td>
</tr>
<tr>
<td>Law</td>
<td>171-172</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>48</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>155-157</td>
</tr>
<tr>
<td>Veterans</td>
<td>32</td>
</tr>
<tr>
<td>Aeronautical Engineering</td>
<td>141-142</td>
</tr>
<tr>
<td>Affiliations</td>
<td>10, 168</td>
</tr>
<tr>
<td>Application Blank (Preliminary)</td>
<td>213</td>
</tr>
<tr>
<td>Applied Music</td>
<td>81-83</td>
</tr>
<tr>
<td>Assemblies</td>
<td>33</td>
</tr>
<tr>
<td>Athletics</td>
<td>22</td>
</tr>
<tr>
<td>Athletic Fields</td>
<td>16</td>
</tr>
<tr>
<td>Attendance</td>
<td>33-34</td>
</tr>
<tr>
<td>Avowed Purpose</td>
<td>3</td>
</tr>
<tr>
<td>Awarding of Degrees</td>
<td>29-30</td>
</tr>
<tr>
<td>Awards, Faculty Wives Club</td>
<td>25</td>
</tr>
<tr>
<td>Alumni</td>
<td>11</td>
</tr>
<tr>
<td>Administrative Personnel</td>
<td>45</td>
</tr>
<tr>
<td>Band</td>
<td>21, 83</td>
</tr>
<tr>
<td>Biblical Literature</td>
<td>110, 112</td>
</tr>
<tr>
<td>Biology</td>
<td>87-89</td>
</tr>
<tr>
<td>Board and Rooms</td>
<td>33</td>
</tr>
<tr>
<td>Board of Trustees</td>
<td>30-37</td>
</tr>
<tr>
<td>Botany</td>
<td>88-89</td>
</tr>
<tr>
<td>Business Administration 61, 99-102</td>
<td></td>
</tr>
<tr>
<td>Business Education</td>
<td>122</td>
</tr>
<tr>
<td>Bequest Forms</td>
<td>215-216</td>
</tr>
<tr>
<td>Calendar (1951-52)</td>
<td>6</td>
</tr>
<tr>
<td>Campus Buildings and Equipment</td>
<td>15-16</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>141</td>
</tr>
<tr>
<td>Chemistry</td>
<td>90-92</td>
</tr>
<tr>
<td>Chemistry Majors</td>
<td></td>
</tr>
<tr>
<td>Curriculum</td>
<td>61-62</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>142, 143, 147-150</td>
</tr>
<tr>
<td>Choral Society</td>
<td>20</td>
</tr>
<tr>
<td>Chorus-Choir</td>
<td>20, 82</td>
</tr>
<tr>
<td>Classification of Students:</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>140</td>
</tr>
<tr>
<td>Law</td>
<td>173</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>52</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>157</td>
</tr>
<tr>
<td>Combination Curricula</td>
<td>54-57</td>
</tr>
<tr>
<td>Arts-Engineering, Arts, Medicine, Arts-Dental, Arts-Nursing, Pre-Law Arts, Law</td>
<td></td>
</tr>
<tr>
<td>Committees of the Board of Trustees</td>
<td>36</td>
</tr>
<tr>
<td>Committees of the Faculty</td>
<td>38</td>
</tr>
<tr>
<td>Counseling of Students</td>
<td>27</td>
</tr>
<tr>
<td>Courses, Description of</td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>147-154</td>
</tr>
<tr>
<td>Law</td>
<td>175-180</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>71-138</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>160-167</td>
</tr>
<tr>
<td>Curricula, Other Suggested:</td>
<td></td>
</tr>
<tr>
<td>B.A. for Lay Workers in Church</td>
<td>70</td>
</tr>
<tr>
<td>Business Administration and Law</td>
<td>61</td>
</tr>
<tr>
<td>Chemistry</td>
<td>61-62</td>
</tr>
<tr>
<td>Economics and Bus. Admin.</td>
<td>62-63</td>
</tr>
<tr>
<td>Personnel Management</td>
<td>63-64</td>
</tr>
<tr>
<td>Physics</td>
<td>64-65</td>
</tr>
<tr>
<td>Religious Education</td>
<td>69-70</td>
</tr>
<tr>
<td>Secretarial</td>
<td>65-67</td>
</tr>
<tr>
<td>Speech</td>
<td>67</td>
</tr>
<tr>
<td>Theater Arts</td>
<td>68</td>
</tr>
<tr>
<td>Pre-Theology</td>
<td>68-69</td>
</tr>
<tr>
<td>Campus</td>
<td>15</td>
</tr>
<tr>
<td>Chapel, Assembly, and Class</td>
<td>33-34</td>
</tr>
<tr>
<td>Attendance</td>
<td></td>
</tr>
<tr>
<td>Course of Study, College of Liberal Arts</td>
<td>49</td>
</tr>
<tr>
<td>Debating and Dramatics</td>
<td>21</td>
</tr>
<tr>
<td>Degrees, Awarding of</td>
<td>29, 30</td>
</tr>
<tr>
<td>Departmental and Professional Organizations</td>
<td>20</td>
</tr>
<tr>
<td>Departmental Fees</td>
<td>181-184</td>
</tr>
<tr>
<td>Departmental Honors</td>
<td>185-186</td>
</tr>
<tr>
<td>Divisions in the College of Liberal Arts:</td>
<td></td>
</tr>
<tr>
<td>Language, Literature and Arts</td>
<td>71-87</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>87-96</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>96-113</td>
</tr>
<tr>
<td>Physical Education and Applied Arts</td>
<td>114-115</td>
</tr>
<tr>
<td>Teacher Education</td>
<td>115-138</td>
</tr>
<tr>
<td>Economics</td>
<td>97-99</td>
</tr>
<tr>
<td>Economics and Business Administra-tion</td>
<td>62, 63, 97-102</td>
</tr>
<tr>
<td>Education, Secondary</td>
<td>118-121, 136-138</td>
</tr>
<tr>
<td>Educational Psychology</td>
<td>134</td>
</tr>
<tr>
<td>Electives, Division (College of Liberal Arts)</td>
<td>50</td>
</tr>
</tbody>
</table>
INDEX

Electrical Engineering 143-144, 150-152
Elementary Education 117-118, 134-136
Eligibility 28
Endowed Scholarships 24-25
Engineering, College of 139-154
English Composition 72-73
English Literature 74-75
Expenses 35
Extension Courses 14

Faculty 10, 41-45
Foreign Languages and Literature 78-79
Fraternities 19
French 76-77
Freshman Days 32
Freshman Year Courses 53

General Information 9-34
German 77-78
Government 105-107

Grade Marks and Quality Points 27
Graduates, List of 187-191
Graduation, Requirements for:
  Engineering 140-141
  Law 172-173
  Liberal Arts 51-52
  Pharmacy 157
Greek 79
Geographical Distribution of Students 209

Health and Physical Education 114, 120, 123-126
Health Program 23
Health Facilities 17
History (Courses) 103-105
History, College of Engineering 139
History, College of Law 168
History, College of Liberal Arts 9
History, College of Pharmacy 155
History, Ohio Northern University 9
Home Economics 115
Honors, Graduation with 30
Honorary Societies 20

Industrial Arts 115, 119, 127, 130
Intercollegiate Athletics 22
Intramural Sports 22, 114

Laboratories 17, 158
Latin 79
Law, College of 168-180
Liberal Arts, College of 48-138
Library:
  General 15
  Law 171
  Pharmacy 158
  Loan Funds 26, 169
  Location of ONU 9-10
  Living Facilities 16, 17, 33

Majors and Minors 51, 119-121
Mathematics 92-95
Matriculation 31, 32
Mechanical Engineering 144-145, 152-154
Modern Languages 76-79, 161
Music 79, 83, 130-133
Musical Organizations 20-21, 82-83

Nurses' Training 56
National Teachers Examinations 116

Organ 82, 184
Organization, University
  Departmental 12
Ohio Examinations for Registered Pharmacists 157-158

Personnel Management 63-64
Pharmacy, College of 155-167
Pharmaceutical Chemistry 162-163
Pharmaceutical Economics 163
Pharmacognosy 164
Pharmacology 164-165
Pharmacy 165-167
Philosophy 110, 113
Physics 64-65, 95-96, 167
Physiology 167
Piano 81, 120, 184
Points, Quality 27
Political Science 105-107

Pre-Professional Courses:
  Agriculture 58
  Dentistry 55
  Forestry 58
  Journalism 58-59
  Medical Technology 59-60
  Law 56-57
  Medicine 55
  Pharmacy 60
  Veterinary Medicine 60

Pre-Registration 27
Prizes 28, 169
Probation 58, 59, 73
<table>
<thead>
<tr>
<th>Course Type</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td>107, 108, 124</td>
</tr>
<tr>
<td>Publications, Student</td>
<td>21-22</td>
</tr>
<tr>
<td>Public School Music</td>
<td>130-133</td>
</tr>
<tr>
<td>Professional Organizations</td>
<td>20, 170</td>
</tr>
<tr>
<td>Positions, Engineering</td>
<td>146</td>
</tr>
<tr>
<td><strong>Purpose:</strong></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td>139</td>
</tr>
<tr>
<td>Law</td>
<td>168-169</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>48</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>155</td>
</tr>
<tr>
<td>Preliminary Application for</td>
<td></td>
</tr>
<tr>
<td>Admission</td>
<td>213</td>
</tr>
<tr>
<td><strong>Quarter System:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Recitals</td>
<td>21</td>
</tr>
<tr>
<td>Reed and Brass Instruments</td>
<td>82-184</td>
</tr>
<tr>
<td>Registration</td>
<td>27</td>
</tr>
<tr>
<td>Regulations</td>
<td>29, 173, 52, 53</td>
</tr>
<tr>
<td>Religion</td>
<td>18, 19, 68, 69, 70, 110</td>
</tr>
<tr>
<td>Residences for Married Students</td>
<td>33</td>
</tr>
<tr>
<td>Residences for Men</td>
<td>33</td>
</tr>
<tr>
<td>Residences for Women</td>
<td>33</td>
</tr>
<tr>
<td>Resources</td>
<td>10</td>
</tr>
<tr>
<td>Register of Students</td>
<td>192-208</td>
</tr>
<tr>
<td><strong>Self-Help:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>26</td>
</tr>
<tr>
<td>Secretarial Courses</td>
<td>65-67, 102, 103</td>
</tr>
<tr>
<td>Senior Honors</td>
<td>30</td>
</tr>
<tr>
<td>Scholarships</td>
<td>24-25</td>
</tr>
<tr>
<td><strong>Sciences:</strong></td>
<td></td>
</tr>
<tr>
<td>Natural</td>
<td>87-96</td>
</tr>
<tr>
<td>Social</td>
<td>96-113</td>
</tr>
<tr>
<td>Sociology</td>
<td>109-110</td>
</tr>
<tr>
<td>Spanish</td>
<td>78-79</td>
</tr>
<tr>
<td><strong>Speech and Theater Arts:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>21, 83-87, 67-68</td>
</tr>
<tr>
<td>Student Organizations</td>
<td>18-22</td>
</tr>
<tr>
<td>Student Body</td>
<td>11</td>
</tr>
<tr>
<td>Student Life and Activities</td>
<td>18-22</td>
</tr>
<tr>
<td>Summer Session</td>
<td>13-14</td>
</tr>
<tr>
<td>Scholarship and Conduct</td>
<td>28</td>
</tr>
<tr>
<td>Secretarial Staff</td>
<td>46-47</td>
</tr>
<tr>
<td><strong>Technical Organizations:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20, 145</td>
</tr>
<tr>
<td>Tuition</td>
<td>35</td>
</tr>
<tr>
<td>Teacher Training</td>
<td>13, 115-138</td>
</tr>
<tr>
<td>Business Education</td>
<td>122</td>
</tr>
<tr>
<td>Elementary Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>117-118, 134, 136</td>
</tr>
<tr>
<td><strong>Health and Physical Education</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>122-126</td>
</tr>
<tr>
<td>Home Economics</td>
<td>115</td>
</tr>
<tr>
<td>Industrial Arts</td>
<td>127-130</td>
</tr>
<tr>
<td>Professional Courses</td>
<td>134</td>
</tr>
<tr>
<td>Public School Music</td>
<td>130-134</td>
</tr>
<tr>
<td>Secondary Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>118-121, 136-138</td>
</tr>
<tr>
<td><strong>Special Methods:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>136</td>
</tr>
<tr>
<td>State Requirements</td>
<td>119-122</td>
</tr>
<tr>
<td>Student Teaching</td>
<td>137-138</td>
</tr>
<tr>
<td>Appointment Bureau</td>
<td>116</td>
</tr>
<tr>
<td>Two-Year Cadet Curriculum</td>
<td>117</td>
</tr>
<tr>
<td>Veterans, Admission of</td>
<td>32</td>
</tr>
<tr>
<td>Violin</td>
<td>82, 120</td>
</tr>
<tr>
<td>Voice</td>
<td>81, 120</td>
</tr>
<tr>
<td>Withdrawals</td>
<td>28-29</td>
</tr>
<tr>
<td>Women, Residences for</td>
<td>33</td>
</tr>
<tr>
<td>Women, Organizations for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18, 19, 22</td>
</tr>
<tr>
<td><strong>Zoology:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>88</td>
</tr>
</tbody>
</table>
PRELIMINARY APPLICATION FOR ADMISSION

Date_____________________

I hereby apply for admission to Ohio Northern University at the
opening of __________________ Quarter, 19________
Fall, Winter, Spring, Summer

Name in full ________________________________

Street Address ______________________________

Postoffice __________________ State ____________

Parent or Guardian ____________________________

Parent or Guardian's Address ______________________________

Date of Birth __________________ Church Preference __________________

Race __________________ Nationality __________________

High School __________________

Address of High School ______________________________

Date of Graduation ______________________________

Previous College attendance __________________
Write "None" or Name of College with Date of Attendance

Veteran of World War? _______ Yes ______ No ______ Married ______ Single ______

Commute? ______ Yes ______ No ______

Check the department in which you are interested:

LIBERAL ARTS
General

Pre-Professional

Arts-Nursing
Business Admin.
Pre-Dental
Pre-Journalism
Pre-Law
Pre-Medical
Pre-Theological
Secretarial
Pre-Pharmacy

Teacher Training

Commercial
Junior High School
Industrial Arts
Intermediate
Music
Physical Education
Primary
Senior High School

ENGINEERING

Civil
Electrical
Mechanical
Pre-Chemical

LAW

PHARMACY

What degree do you expect to receive?

If you have selected a major field, check below:

Biology
Chemistry
English
Foreign Language
Economics and Business Adm.
History and Political Science
Home Economics

Mathematics
Music
Physics
Psychology and Sociology
Religious Education and Bible
Speech and Theater Arts
Upon receipt of this preliminary application, the Director of Admissions will send you a more complete questionnaire for your use in making formal application for admission.

A matriculation fee of $5.00 is due and payable when formal application is made. The fee is non-refundable.

Prospective law students should list all colleges (including law colleges) formerly attended. They should also indicate the law colleges to which they have made application for admission.

For information regarding admission write to

THE DIRECTOR OF ADMISSIONS

OHIO NORTHERN UNIVERSITY

ADA, OHIO
OHIO NORTHERN UNIVERSITY
BEQUEST FORM

UNRESTRICTED

I give and bequeath to Ohio Northern University at Ada, Ohio, the sum of

_________________ dollars
(or designated property or portion of estate) the principal or income to be used in such manner and for such purposes as in the judgment of the trustees shall best promote the interests of the University.

RESTRICTED ENDOWMENT

I give and bequeath to Ohio Northern University at Ada, Ohio, the sum of

_________________ dollars
(or designated property or portion of estate) to be added to the general endowment funds of the University, the income to be used in such manner and for such purposes as in the judgment of the Board of Trustees shall best promote the interests of the University.

(Over)
RESTRICTED PURPOSE

I give and bequeath to Ohio Northern University at Ada, Ohio, the sum of ______dollars
(or designated property or portion of estate) the principal or income to be used (or, the income to be used), for the purpose of ____________________________

in such manner as the Board of Trustees shall determine. If at any time the need of income for such purpose no longer exists, Ohio Northern University shall be, and hereby is, authorized to use the principal or income for such other educational purposes as in the judgment of the Board of Trustees shall best promote the welfare of the University.
One of the Many Dances Held in Taft Gym.