



Youngstown College

BULLETIN

Catalog Number for the Year
1938-1939

Co-Educational

410 Wick Avenue
YOUNGSTOWN, OHIO

DEGREES OFFERED

Bachelor of Arts

Bachelor of Science

Bachelor of Science in Education

Bachelor of Laws

COLLEGE CALENDAR

College of Arts and Sciences

1938

September	10	Final registration for Freshmen.
September	13	Final registration for Upper Classmen.
September	14	Class work begins.
November	23	Thanksgiving holiday begins, 10:00 P. M.
November	28	Thanksgiving holiday ends, 8:00 A. M.
December	16	Christmas vacation begins, 10:00 P. M.

1939

January	3	Christmas vacation ends, 8:00 A. M.
January	27	First semester ends, 10:00 P. M.
January	30	Second semester begins, 8:00 A. M.
April	3	Easter vacation begins, 8:00 A. M.
April	10	Easter vacation ends, 8:00 A. M.
May	19	May Day.
May	30	Memorial Day; a holiday.
June	4	Baccalaureate Service.
June	8	Second semester ends.
June	9	Commencement.
June	10	Alumni Day.
June	19	Summer Session begins.

School of Law

1938

September	22-23	Registration.
September	27	Fall Quarter begins.
December	16	Fall Quarter ends.

1939

January	3	Winter Quarter begins.
March	24	Winter Quarter ends.
March	28	Spring Quarter begins.
June	16	Spring Quarter ends.
July	7	Summer Quarter begins.
September	22	Summer Quarter ends.

BOARD OF GOVERNORS

James L. Wick, Jr.	Chairman President, Falcon Bronze Company
W. E. Bliss	Vice-Chairman Vice-President, Standard Slag Company
J. C. Argetsinger	Vice-Chairman Vice-President, General Counsel, and Secretary, Youngstown Sheet and Tube Company
N. B. Folsom	Recording Secretary Trust Officer, Mahoning National Bank
J. C. Barrett	Carnegie-Illinois Steel Corporation (Retired)
R. M. Bell	Secretary and Treasurer, General Fireproofing Company
Dr. W. H. Bunn	Physician
Joseph G. Butler, III	Butler, Wick, and Company
Sidney J. Collins	Clark and Collins, Certified Public Accountants
Oscar F. Gayton	Mutual Life Insurance Company of New York
George H. Gessner	Judge, Common Pleas Court
W. B. Gillies	Vice - President, Youngstown Sheet and Tube Company
Hugh Grant	Treasurer, Struthers Iron and Steel Company
Roy L. Leventry	District Manager, Youngstown District, Republic Steel Corporation
Harry Levinson	Jeweler
Donald Lynn	Attorney, Harrington, Huxley, and Smith
W. C. McKain	McKain, Ohl, and Swanner
J. Russell McKay	Vice-President and Attorney, Home Savings and Loan Company
William F. Maag	Editor and Publisher, The Youngstown Vindicator

BOARD OF GOVERNORS

Hugh Manchester	Manchester, Ford, Bennett, and Powers
Thomas H. Murray	Secretary and Treasurer, Heller- Murray Company
Franklin B. Powers	Manchester, Ford, Bennett, and Powers
C. Snelling Robinson	Vice-President, Youngstown Sheet and Tube Company
John R. Rowland	President, Mahoning National Bank
Philip Schaff	President, Morris Plan Bank
Clarence J. Strouss	President, Strouss-Hirshberg Company
C. W. Sumner	Librarian, Youngstown Public Library
Martin Tod	Civil Engineer
E. E. Tross	General Superintendent, United Engineering and Foundry Company
Herbert S. Warwick	Water Works Division, Youngs- town Sheet and Tube Com- pany
Verne J. Wilson	President, Union National Bank
R. J. Wysor	President, Republic Steel Cor- poration

J. Eugene Bennett—President of The Young Men's Chris-
tian Association, ex-officio.

Paul B. Davies—General Secretary of The Young Men's
Christian Association, ex-officio.

LAW SCHOOL COMMITTEE

C. Snelling Robinson	Chairman
	Vice-President, Youngstown Sheet and Tube Company
J. C. Argetsinger	Vice-President, General Counsel, and Secretary, Youngstown Sheet and Tube Company
William F. Maag	Editor and Publisher, The Youngstown Vindicator
Sidney J. Collins	Clark and Collins, Certified Public Accountants
James L. Wick, Jr.	President, Falcon Bronze Company

EXECUTIVE COMMITTEE

James L. Wick, Jr.-----Chairman
President, Falcon Bronze Company

J. C. Argetsinger Vice-President, General Counsel, and Secretary, Youngstown Sheet and Tube Company

Dr. W. H. Bunn Physician

Joseph G. Butler, III Butler, Wick, and Company

Sidney J. Collins Clark and Collins, Certified Public Accountants

George H. Gessner Judge, Common Pleas Court

William F. Maag Editor and Publisher, The Youngstown Vindicator

Franklin B. Powers Manchester, Ford, Bennett, and Powers

C. Snelling Robinson Vice-President, Youngstown Sheet and Tube Company

Clarence J. Strouss President, Strouss-Hirshberg Company

J. Eugene Bennett—President of The Young Men's Christian Association, ex-officio.

Paul B. Davies—General Secretary of The Young Men's Christian Association, ex-officio.

OFFICERS OF ADMINISTRATION

Howard W. Jones, A. M.	President
George M. Wilcox, Ph. D.	Dean
Catherine Berg Semans, A. M.	Dean of Women
Judge George H. Gessner, LL. B.	Dean of Law
Charles F. Axtmann, M. S.	Dean of Business Administration
Philip P. Buchanan, M. Ed.	Registrar
P. Calvin Pickard, A. B.	Business Manager
Freda R. Flint, A. B.	Publicity Director
Maurine Brunner, A. M.	Librarian
Wanda Sporer, A. B.	Secretary to the President
Mrs. Helen Lyon	Cashier
Carolyn Higgins, A. B.	Assistant Registrar
Marguerite Friedrich, A. B.	Associate Publicity Director

FACULTY

College of Arts and Sciences

- Howard W. Jones, A. M. _____ President
 A. B., Hiram College
 A. M., Western Reserve University
- John W. Bare, A. M. _____ Psychology
 A. B., Ohio Wesleyan University
 A. M., Ohio Wesleyan University
- Levi G. Batman, A. B.* _____ Biblical Literature
 A. B., Indiana University
 Graduate Work, Union Theological Seminary
- Dwight V. Beede, B. S. _____ Physical Education
 B. S., Carnegie Institute of Technology
- Karl H. Benkner, M. E.* _____ German
 M. E., Military Technical Academy, Charlottenburg,
 Germany.
- Dorothy R. Bollard, B. S.* _____ Physical Education
 B. S., University of Nebraska
- George A. Bretz, B. Mus. _____ Piano
 Bachelor of Music, Dana Musical Institute; Artist
 pupil of Beryl Rubenstein, Cleveland Institute of Music
- Catherine M. Bridgham, Ph. D. _____ Biology
 B. S., University of Michigan
 Ph. D., University of Pittsburgh
- Russell G. Bunn, A. B. _____ Speech
 A. B., Hiram College
 School of Expression, Boston
 Graduate Work, Columbia University
- Harold N. Burt, B. D. _____ Philosophy
 B. S., University of Pennsylvania
 B. D., Union Theological Seminary
 Graduate Work, Columbia University
 and Yale University
- Karl Dykema, A. M. _____ English
 A. B., Columbia University
 A. M., Columbia University
- Clarence M. Carhart, B. S.* _____ Mechanical Drawing
 B. S., Ohio Northern University
- Denton T. Doll, B. S. _____ Mathematics
 B. S., Case School of Applied Science
- Margaret Evans, B. S. _____ Art
 B. S., University of Chicago
 Pupil of Arthur Dow, of Columbia, and Walter Sar-
 gent, of Chicago
 Graduate Work, Columbia University

FACULTY

- D. H. Fairfield, B. P. E.* _____ Physical Education and Hygiene
 B. P. E., George Williams College
 Graduate Work, George Williams College
- Castle W. Foard, Ph. D. _____ Mathematics and Physics
 A. B., University of Wichita
 M. S., University of Kentucky
 Ph. D., University of Iowa
- Ceylon Hollingsworth* _____ Fine Arts
 Pupil of William M. Chase, New York City
- Ward B. Jenks, A. M.* _____ Speech
 Ph. B., Brown University
 A. M., University of Chicago
- Ralph Kircher* _____ Engineering Drawing
 Fenn College
- Randall Leyshon, A. B. _____ Physical Education
 A. B., Youngstown College
- John A. McCorkle, A. M. _____ Social Science
 A. B., Oberlin College
 A. M., Princeton University
- D. Roy Mellon, B. S.* _____ Chemistry
 B. S., Allegheny College
 LL. B., Youngstown College
 Graduate Work, Ohio State University
- Byron W. Mottinger, E. E. _____ Engineering
 B. S., Case School of Applied Science
 E. E., Case School of Applied Science
- Alvin Myerovich _____ Violin
 Pupil of Sascha Jakobinoff and Albert Meioff, Curtis
 Institute of Music, Philadelphia; Andre de Ribeaupierre,
 Louis Persinger, and Joseph Fuchs, Cleveland
 Institute of Music; Graduate of Cleveland Institute of
 Music
- Wilbur Nichol* _____ Engineering Drawing
 Youngstown College
- P. Calvin Pickard, A. B. _____ Business Administration
 A. B., Ohio University
- O. L. Reid, A. M. _____ English
 A. B., Indiana University
 A. M., New York University
 LL. B., University of Louisville
- Leonard T. Richardson, Ph. D. _____ Modern Language
 A. B., Aurora College
 A. M., University of Chicago
 Docteur de l'Universite de Grenoble, France

YOUNGSTOWN COLLEGE

- P. J. Ross, Jr., A. M.* Political Science
 A. B., Kentucky Wesleyan
 A. M., University of Kentucky
- Theresa Scarnecchia, M. Ed.* Italian
 A. B., Youngstown College
 M. Ed., University of Pittsburgh
- Eugene Dodd Scudder, Ph. D. Chemistry
 A. B., Indiana University
 A. M., Indiana University
 Ph. D., Indiana University
- Catherine Berg Semans, A. M. Psychology
 A. B., Ohio State University
 A. M., Ohio State University
- Frank M. Semans, Ph. D. Biology
 A. B., Ohio State University
 A. M., Ohio State University
 Ph. D., Ohio State University
- Joseph Earle Smith, Ph. D. Social Science
 A. B., Oxford University, England
 A. M., University of Nebraska
 Ph. D., Wallas College, London
- Henry V. Stearns, D. Ped. Music
 B. Mus., American Conservatory of Music
 F. A. G. O.
 D. Ped., Cincinnati Conservatory of Music
- Raymond Sweeney, Jr., A. B.* Intercollegiate Athletics
 A. B. Westminster College
- James W. Tidd, A. M.* History
 B. S., Kent State University
 A. M., Ohio State University
- H. C. Welch, B. S.* Mathematics
 B. S., Syracuse University
- George M. Wilcox, Ph. D. Education
 A. B., Cornell College
 A. M., State University of Iowa
 Ph. D., Columbia University
- Guy Wright, A. B.* History
 B. S., New Lyme Institute
 A. B., Thiel College

FACULTY

William H. Bunn, M. D., F. A. C. P. Lecturer in Biology
 Wooster College
 M. D., Jefferson Medical College
 Post-Graduate Work, Sir James MacKenzie Institute for
 Clinical Research, St. Andrews, Scotland

*Instructors not carrying full teaching load.

School of Business Administration

Charles F. Axtmann, M. S. Business Administration
 B. S., Syracuse University
 Pd. B., Syracuse University
 M. S., Syracuse University

John Allison, A. B. Accounting
 A. B., Youngstown College

John R. Bell, M. Ed. Accounting
 Ph. B., Bucknell University
 M. Ed., University of Pittsburgh

Paul H. Bolton Advertising
 New York University

Arthur L. Carter, LL. B. Business Law
 A. B., Muskingum College
 LL. B., Youngstown College

Roy R. Fellers, LL. B. Public Speaking
 A. B., University of Michigan
 LL. B., Youngstown College

George K. Fried, A. B. Business Administration
 A. B., Pennsylvania State College

Elmer Hykes, B. S., Accounting
 A. B., Bliss College
 B. S., Bliss College
 Graduate Work, Denver University
 and Ohio State University

O. L. Pfau, A. B. Credits and Collections
 A. B., Wooster College

John Wampler, B. Ed. Accounting
 B. C. S., Youngstown College
 B. Ed., Shippensburg State Normal College

YOUNGSTOWN COLLEGE

School of Law

Judge George H. Gessner, LL. B.
LL. B., Western Reserve University

Henry C. Church, LL. B.
LL. B., Baldwin-Wallace College

Raymond Falls, A. B., LL. B.
A. B., Thiel College
LL. B., Western Reserve University

John W. Ford, A. B., A. M., LL. B.
A. B., Yale University
A. M., Harvard University
LL. B., Harvard University

Judge Erskine Maiden, Jr., A. B.
A. B., Harvard University
Harvard Law School
Western Reserve Law School

Richard Wills, A. B., LL. B.
A. B., Yale University
LL. B., Yale University

Knowles Wyatt, B. S., LL. B.
B. S., Muskingum College
LL. B., Youngstown College

FACULTY COMMITTEES

Athletic Board—Mr. Foard, chairman; Mr. Fairfield, Mr. Doll.

Calendar Committee—Mr. Bunn; chairman; Mr. Doll, Mr. Foard, Mr. Pickard, Mrs. Semans, Mr. Stearns, Miss Flint.

Catalog—Miss Flint, chairman; Mr. Smith, Mr. Bare, Mr. Reid.

Chapel and Religious Activities—Mr. Stearns, chairman; Mrs. Semans, Mr. Bare.

Commencement—Mr. Foard, chairman; Mr. Stearns.

Coordination—Mr. Burt, chairman; Mr. Foard, Miss Evans, Mr. Doll, Mr. Stearns, Mr. Wilcox, Mr. Pickard, Mr. Buchanan.

Credits and Admission—Mr. Buchanan, chairman; Mr. Wilcox, Mr. Semans.

Curriculum—Mr. Scudder, chairman; Mr. Burt, Mr. Reid, Mr. Wilcox, Mr. Foard, Mr. Smith.

Discipline—Mrs. Semans, Mr. Wilcox.

Executive Committee—Mr. Wilcox, chairman; Mrs. Semans, Mr. Smith, Mr. Scudder.

Faculty-Student Relations—Mr. Doll, chairman; Mr. Scudder, Mr. Pickard.

Library—Mr. Smith, chairman; Mr. Richardson, Mr. Reid.

Social Activities—Mr. Doll, chairman; Mr. Burt, Mr. Bunn, Mrs. Bridgham.

Student-Counseling Committee—Mr. Semans, chairman; Mr. Bare, Mr. Doll, Mr. Dykema, Mr. Foard, Mr. Richardson, Mr. Scudder, Mrs. Semans, Mr. Smith, Mr. Wilcox.

Note—The President is ex-officio a member of all committees.

OBJECTIVES OF YOUNGSTOWN COLLEGE

Youngstown College attempts to meet those educational needs of the local community which are not otherwise provided for. This effort has resulted in the development of:

A. Courses leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, and Bachelor of Laws.

B. An adult education program with late afternoon and evening classes in cultural and vocational subjects including business, engineering, teacher training, and law.

The program focuses upon the development of the capacities of the individual student along the threefold lines of intellectual and cultural interests, moral integrity, and vocational competency. To achieve these ends, the college seeks to provide:

A. An understanding and practice of the habits of physical health and hygienic living.

B. A personnel service that will assist the individual in discovering special interests and abilities, and how these may be best utilized.

C. A sound philosophy of life which includes:

1. An appreciation of those intellectual, moral, religious, and aesthetic values which make life satisfying.

2. An intelligent understanding of one's self in relation to others, leading to standards of rational conduct and discipline derived from within rather than from external authority.

3. Stability and integrity of character, arising from sound principles and a sustaining religious faith, regardless of church affiliations.

D. A broad, liberal and cultural education which includes:

1. Habits of free inquiry, exact observation, and a love of truth.

2. A taste for good reading, familiarity with the general content of the various fields of knowledge, and rigorous discipline in some chosen field.

3. Ability to express one's self clearly and forcefully.

E. A practical acquaintance with professional and pre-professional techniques, and a training in the techniques employed in the business world.

HISTORICAL SKETCH

The Board of Trustees of the Youngstown Young Men's Christian Association founded in 1888 The Youngstown Association School, offering men and boys evening classes in numerous unrelated courses. In 1908 the Law School was opened with a class of nine. This developed until complete preparation was offered for the bar examination and subsequent practice of law. In 1920 the State of Ohio gave the Law School the right to grant the degree of Bachelor of Laws, and the Law School became a member of the Ohio League of Law Colleges.

The full four-year course in business administration was offered for the first time in 1920. A year later the name, The Youngstown Association School, was changed to The Youngstown Institute of Technology. In the fall of the same year the first liberal arts courses were given in the evenings, with professors from nearby colleges teaching the classes, now of women as well as of men. In 1927 the steady demand and growth in numbers brought about the establishment of a Day College of Liberal Arts, and The Youngstown Institute of Technology became Youngstown College. At this time high school graduates as entrants began to outnumber the evening adult students. By permission of the State Department of Education in 1930, Youngstown College was authorized to grant the degree of Bachelor of Arts to its June graduating class.

During this growth the school had been moved twice; first from the third floor of the Central Y. M. C. A. Building to the Bonnell residence at 315 Wick Avenue, and again to the John C. Wick Home at 410 Wick Avenue. On October 1, 1931, it finally moved into its present new college building.

In 1933 Youngstown College was fully accredited by the State Department of Education for the training of high school teachers and complete preparation for this training was offered.

Youngstown College is controlled by a Board of Governors, appointed by the Board of Trustees of the Young Men's Christian Association, who are representative men in various industries and professions, and who are looking toward an even greater growth for the school.

GENERAL INFORMATION

Buildings

The main college building is a beautiful structure of Indiana limestone at the corner of Wick and Lincoln Avenues. Immediately north on the campus is the Henry Wick residence, available for class and recreation rooms. To the north is the Butler Art Gallery, now used by the Art department of the college. To the east is the Gothic structure, St. John's Episcopal Church. Within three blocks, south and east, are the Central Y. M. C. A. and Y. W. C. A. buildings. The Public Library and the First Reformed Church are also close by.

Library

The library contains 10,800 well-chosen books and 170 magazines. It has been growing at the rate of 1775 volumes per year. This year the need for a more rapid growth was recognized by the College Club, which is the local chapter of the American Association of University Women. They organized a group, known as The Friends of the College Library, which assumed the responsibility of raising a fund of \$50,000 over a ten-year period. This will allow the library to grow at the rate of 4500 volumes per year.

Musical and Cultural Advantages

Students at Youngstown College have unusual opportunities for hearing a wide range of the best in music. Not only are there the recitals by faculty and students, the free organ recitals at Stambaugh Auditorium under the auspices of the American Guild of Organists, and the concerts by the Youngstown Little Symphony Orchestra, but each year the Monday Musical Club brings to Youngstown a number of the world's great musical artists in concert. The cost of these concerts is easily within reach of all students.

The College Year

The college year is divided into two semesters of eighteen weeks each. School is in session five days and evenings a week. The courses are so arranged that students graduating from high school in January and wishing to enter college at that time may work out a satisfactory schedule for the second semester. It is possible to shorten the course by attending the summer session.

The *School of Law* operates on the quarter plan. The quarters are designated as Summer, Fall, Winter, and Spring. Four quarters constitute the year's work.

GENERAL INFORMATION

Evening Classes

Youngstown College offers an evening schedule enabling employed men and women to attend classes after working hours. The schedule is so arranged that students may complete the entire college course in evening classes and receive any of the degrees which the college offers.

Summer Session

Youngstown College hold a summer session of nine weeks each summer. Courses are offered in Science, Education, English, Modern Language, Mathematics, Philosophy, Psychology, History, Economics, Political Science, and Sociology. Both day and evening classes are available. A student may complete nine semester hours of credit.

THE COOPERATIVE PLAN

The enrollment by Youngstown College of students on the cooperative plan of education in the departments of business administration and engineering began in September, 1937. A definite economic and educational need calls for the introduction of this plan in Youngstown. While new at Youngstown College the cooperative plan has been tested for over thirty years and has proved its merits. It combines practical work with liberal education and gives the student experience under supervision and guidance. On the other hand the employer gets the service of intelligent, ambitious, young people, who grow in value in terms of the scholastic training and business or technical experience that they receive.

Youngstown College is ideally located for the successful operation of a cooperative school in that one of the necessary requirements is that a college be located in or near an industrial center. Already leading industries and business firms of Youngstown have indicated their intentions of working with the college in this new venture.

How the Cooperative Plan Works

Under this plan students who are accepted for cooperative training are given a thorough course of class room instruction for the first two years. During this period they are sounded out as to their desires, guided in their thinking, and tested as to their fitness for various kinds of work. At the end of the sophomore year students divide their time between college and work in their chosen fields.

Although the college cannot make any guarantees as to positions because of the uncertainties in business conditions and other factors beyond control, every possible effort will be made to place the students in suitable positions. *Students who enter with advanced standing must complete satisfactorily one year of work at Youngstown College before they will be recommended for positions.* During the work period students will be under the guidance and supervision of the college. The work is correlated with the curriculum in order that the student may see the practical meaning of his class room work and may learn to apply the theories to practical problems.

How the Cooperative Plan Benefits the Student

The student learns the important lessons of meeting and getting along with people at work.

He gains experience in applying the theories learned in school.

He has an opportunity actually to work in his chosen field and to determine whether or not he is adapted to it and interested in it, before he completes his college course.

After the first two years in school the Cooperative student is enabled through his work to earn a large part of his expenses.

At the end of the training period the employee is known to the employer and may be fitted permanently into the organization where he has received his practice.

COLLEGE ACTIVITIES

The college aims to foster student participation in various extracurricular activities, such as, athletics, debating, and music. However, since the scholastic standing of the student must always take precedence over the extracurricular activities, the administration deems it wise to limit the participation in other activities to students whose point index for scholastic standing is above 1.5.

Student Council

Representative students of the college are organized under the name of the Student Council of Youngstown College. This council operates under a constitution and has general oversight of all student activities. It cooperates with the various special student organizations and makes recommendations to the faculty regarding such matters as seem to affect the welfare of the college. The council consists of ten members and a president elected by the student body, and one faculty representative selected by the administration.

Athletics

The physical development of the student is promoted by means of courses in physical education, intramural activities, and intercollegiate competition.

The purpose of physical education and intramural activities is to enlist and hold the interest of the entire student body in the active participation in games of skill and pleasure. Stress is placed upon those games which can be played after the student leaves college, such as, volleyball, handball, table tennis, basketball, tennis, swimming, etc. For those students who excel in athletics, intercollegiate competition in basketball, football, and tennis is provided.

The excellent facilities of the Youngstown Y. M. C. A. and the Y. W. C. A. are at the disposal of the students of the college for this program.

The Mimes

The Mimes, organized in 1927-1928, is composed of students interested in the study and presentation of modern dramatic forms. Membership is limited to those who show continued interest and willingness to work. Plays are produced throughout the school year, and students gain valuable experience in dramatic work.

COLLEGE ACTIVITIES

Musical Organizations

Various musical activities are encouraged and supported by the college. Frequent recitals during the year provide an opportunity for training in public performance that is invaluable to the young musician.

A Men's Glee Club and a Women's Glee Club are open to all students of the college and give excellent training for this type of work.

The Chapel Choir is a group of about twenty-five men and women chosen for their vocal and musical ability. The choir gives several public performances each year and sings at each college chapel service.

The College Orchestra was organized to provide an opportunity for musical growth and development for all students who are interested. The orchestra provides music for many college functions and concerts.

Student Publications

The Neon is the College Annual published by students elected to the Neon staff. The editors are usually seniors but the other offices are filled by other classmen. This publication gives students training in copy, layout, and other similar work. Experience is had in advertising, financing, and securing subscriptions.

The Jambar is a biweekly college newspaper, put out by the Jambar staff who are chosen or appointed from the student body. Students interested in journalism can secure opportunities to serve on the staff to gain actual experience in this field. The paper is supported partly by the student activity fund and partly by its advertising matter.

YOUNGSTOWN COLLEGE

Honor Point System

The Honor Point System of Youngstown College was initiated by the Student Council and after some changes was unanimously adopted by the faculty with the end in view of recognizing not only scholastic attainments but extracurricular activities as well. Students attaining thirty honor points are eligible to be placed on the honor roll. The three students earning the largest number of points each year will receive a pearl-studded pin with the letters "Y. C.," the official emblem of the college.

Eligibility to the honor roll includes the points made both in scholastic and extracurricular activities and no student shall be considered eligible for a pin who has not achieved the majority of his points in scholarship.

The points are outlined as follows:

Scholastic

- 1 point, for every semester hour of "A" grade
- 1/2 " " for every semester hour of "B" grade

Extracurricular

- 10 points Student Council President
- 10 " Jambar Editor
- 10 " Annual Editor
- 10 " Permanent Basketball Captain
- 10 " Permanent Football Captain
- 8 " Student Council Officers
- 8 " Basketball Major Awards
- 8 " Football Major Awards
- 7 " Student Council Members
- 7 " Annual Business Manager
- 7 " Senior Basketball Manager
- 6 " Associate Editor of Jambar
- 6 " Jambar Business Manager
- 5 " Jambar Staff Editors
- 5 " Annual Staff Editors
- 5 " Other Major Athletic Awards
- 5 " Senior Class President
- 5 " Junior Class President
- 4 " May Queen
- 4 " Major Parts in Plays or Musicals
- 3 " Junior Basketball Manager
- 3 " Jambar Staff Members
- 3 " Annual Staff Members
- 3 " May Day Chairman

COLLEGE ACTIVITIES

3	points	Cheerleaders
3	"	Athletic Minor Awards
2	"	Mimes Dramatic Fraternity Award
2	"	Sub-leads in Plays or Musicals
2	"	President Honorary Organizations
2	"	Junior Prom Queen
2	"	Band or Orchestra Member
2	"	Stage Managers, Electricians, and Student Directors
1	point	Class Officers
1	"	Mimes Dramatic Fraternity President
1	"	Minor Parts in Plays or Musicals
1	"	Junior Prom Chairman
1	"	Chairman Student Council Functions
1	"	Member Honorary Organizations
1	"	Choir Members
1	"	Athletic Board Members

The above Honor Point rating system, by its very nature, applies to the regular full-time students. Part-time and irregular students whose work is completed in late afternoon and evening classes, naturally do not have opportunities to engage in extra-curricular activities on the same basis as the full-time day students. In order to recognize the merit of their work, a slight change is necessary in according honors. Instead of placing the honors on the yearly basis, such students as deserve recognition based on scholastic as well as upon the other activities, will be recognized appropriately at the end of their senior year.

College Organizations

Athletic Board	Music Club
Band	Newman Club
Chapel Choir	Open Road Club
College Chorus	Orchestra
Cosmopolitan Club	Social Science Club
Debate Club	Student Council
Gessner Law Club	The Mimes
Interfraternity Council	Varsity Club
Men's Glee Club	Women's Glee Club
	Women's Intramural Board

Professional and Honorary Fraternities

Beta Chapter of Phi Epsilon	Phi Epsilon
Delta Epsilon	Sigma Tau Delta
Omicron Lambda	

YOUNGSTOWN COLLEGE

Social Fraternities

Gamma Sigma

Phi Gamma

Phi Kappa Delta

Phi Lambda Delta

Phi Sigma Epsilon

Sigma Delta Beta

Sigma Kappa Phi

REGISTRATION AND CLASSIFICATION

Registration

The office of the Registrar is located on the main floor, and is open from 8:30 A. M. until 8:30 P. M. every day, with the exception of Saturday, when it closes at noon. Every student must register at the beginning of each semester, and early registration is required so that there may be no delay in beginning classes. A fee of \$1.00 will be paid by all students who register late.

Fifteen hours is the normal schedule. No Freshman may carry more than fifteen hours of academic work except in cases where the nature of the work may require some adjustment in order to complete the schedule, in which case a maximum of sixteen hours may be allowed. A reduction may be made by the deans immediately after registration in the academic loads of students whose high school and college intelligence test records show that they are incapable of carrying the normal amount of work. Advanced students, depending upon their past record, may petition the faculty for permission to carry additional hours not to exceed a total of eighteen.

Any student who wishes to change his schedule of classes after registration by dropping a course, adding a course, or substituting one course for another, must fill out the Change of Registration Form and have it properly approved by the instructor and dean. Otherwise a mark of failure is recorded for the course dropped.

No student will be permitted to drop a course after the first six weeks of the semester except by request of the dean on behalf of the student.

Requirements for Admission

All candidates for admission to the college are expected to furnish satisfactory evidence of good character. The filing of a formal application on blanks furnished by the college is required.

Graduates of a first grade high school or an accredited secondary school will be admitted to Youngstown College upon presentation of a satisfactory official transcript of the high school credits.

REGISTRATION AND CLASSIFICATION

The entering student who is in the lower third of his high school class will be required to take psychological tests before his application for admission will be acted upon and will be on probation until he has demonstrated his ability to do college work.

Application for admission and filing of a statement of high school credits should be made as soon after graduation from high school as possible.

Requirements for Admission to the Courses Leading to the Bachelor of Science and Bachelor of Arts Degrees:

English	3 units
United States History and Civics.....	1 unit
Algebra	1 unit
Geometry	1 unit
Laboratory Science	1 unit
Foreign Language	2 units
Acceptable Electives	7 units

One year of Chemistry and one year of Biology is necessary before entering The Youngstown Hospital Training School for Nurses. Consequently, students enrolling for the Pre-Nursing Course, which is offered in cooperation with The Youngstown Hospital Training School, must meet these requirements.

Requirements for Admission to the Course Leading to the Bachelor of Science in Education Degree:

English	3 units
History and Civics.....	1 unit
Algebra or Geometry.....	1 unit
Science	1 unit
Acceptable Electives.....	10 units

Admission to Advanced Standing—Students from other colleges are required to present a complete transcript of all work taken in that college and a statement of all high school work taken. In each case the applicant must present a letter of honorable dismissal from the school last attended.

Freshmen entering the Law School will be required to submit sixty semester hours credit in a Liberal Arts college to satisfy admission requirements.

YOUNGSTOWN COLLEGE

Classification of Students

Students are classified as regular, special, or irregular students.

Regular Students are those who have been graduated from an accredited high school and who carry the normal amount of work. Students allowed to enter with a condition may be classed as regular students if they carry full work, but will be required to make up entrance deficiencies by the end of the freshman year.

Special Students are those who are not high school graduates, but who because of maturity are allowed to pursue college work. Thus, a limited number of students whose credits may not be accepted toward a degree, may be cared for each year as special students.

Irregular Students are those who are high school graduates, but who are carrying less than a normal load. Evening students, while irregular in this sense, are classed separately because they constitute a large group.

GRADE REQUIREMENTS

Scholastic Point System

The passing grades give points as follows: A, 3 points per hour; B, 2 points per hour; C, 1 point per hour; D, no point. The point index is the basis of computing averages, and represents the average number of points per hour earned by the student for a given semester or number of semesters. It is figured by dividing the total number of points earned by the total number of hours for which the student was registered. Thus, a student registered for 16 hours and earning 24 points would have a point index of 1.50.

A student must have 124 points, or an average grade of C+, to be eligible for the Bachelor of Arts degree.

Grades

Grades for work done are recorded as follows: A, excellent; B, good; C, fair; D, poor; F, failure.

"A" indicates that a student has an especially fine grasp of the subject matter of the course and has placed upon it the stamp of his own individual thinking.

"B" indicates that a student has an intelligent grasp of the subject and has fulfilled the requirements of the course, but without showing any exceptional ability or individuality in his approach to the subject.

"C" indicates fair work but with nothing of an exceptional nature. It indicates average quality and ability without a thorough grasp of the subject.

"Inc." indicates incomplete work for the semester and automatically becomes a failure if not removed within a year.

"D" indicates poor work of inferior quality and preparation.

"F" indicates failure.

Any student who is absent from a regular examination will be required, at the discretion of the instructor, to obtain from the dean written permission to take the examination, and to pay a fee of one dollar to the college for the privilege.

Any student who has not passed in one-half of his work is not eligible to re-enroll for the succeeding semester.

Attendance Requirements

By action of the Faculty there may be a reduction of the number of credits earned toward graduation during any semester, in the case of students who are irregular in attendance at chapel, assembly, or classes.

REQUIREMENTS FOR DEGREES

Application for a degree must be filed with the Registrar in the month of September preceding graduation, and the diploma fee must be paid at least sixty days prior to Commencement.

Requirements for the Bachelor of Arts Degree

Group Requirements

Group I

English (Including English Composition).....11 hours

Other English work may be substituted for English Composition at the discretion of the head of the English department, except for students who expect to teach English. No student shall be graduated who has not satisfied the head of the English department concerning his proficiency in the use of English.

Modern Language—

A reading knowledge of one modern language is required, implying a knowledge equivalent to two years of college work. A certificate indicating that the student has fulfilled this requirement must be obtained from the head of the Modern Language department.

Group II

Laboratory Science.....8 hours

Mathematics or Science (Laboratory or
Non-Laboratory).....3 hours

One year of continuous work is required in one laboratory science. If the student has had no high school work in a physical science, one semester of such science is required; if he has had no high school work in a biological science, one semester of such science is required in college.

Group III

Social Science.....9 hours

Psychology, Philosophy, Bible.....6 hours

Group IV

Physical Education and Hygiene.....4 hours

Orientation.....1 hour

One hour of credit is given for each of four semesters of work, consisting of two one-hour periods per week of gymnasium work taken throughout four semesters, and one hour per week of hygiene taken during one semester of the Freshman year.

Students may be excused when necessary from taking Physical Education by presenting a letter from the family physician, in which case an equivalent amount of academic work must be substituted.

REQUIREMENTS FOR DEGREES

Major and Minor Requirements

Each student is required to have a major and at least one minor. Major requirements in all departments consist of thirty semester hours. A minor consists of fifteen semester hours' work in a field related to the major.

The head of the department in the major field should be consulted as early as possible by the student in planning his work. It is desirable that the work be planned beginning with the freshman year and almost essential, in some departments, that this planning not be postponed later than the beginning of the sophomore year if the student is to have a satisfactory program throughout his college work.

The major and minor work must in all cases meet the approval of the head of the department in which the major work is taken.

Total Hour Requirements

Electives sufficient, together with the required subjects, to make a total of 124 semester hours must be taken for graduation, of which not less than thirty semester hours must be taken in Youngstown College.

One semester hour's credit represents three hours work per week, for one semester, in preparation, recitation, lecture, or laboratory work.

Distribution of Work

The work of the college is organized into two divisions, the Lower Division, consisting of freshman and sophomore years, and the Upper Division, consisting of junior and senior years. Courses having numbers below 300 are in the Lower Division and courses numbered 300 and above are in the Upper Division.

Freshman students are not permitted to take a course in the Upper Division, except by approval of the dean.

Senior students taking courses numbered lower than 200 will have their credit for those courses reduced by one-third.

In order to qualify for a degree, a student must have a minimum of forty semester hours of credit in courses numbered 300 and above.

At least sixty semester hours must be taken in courses numbered 200 or above.

In order for a student to graduate he must secure a 1.5 point average, or better, in all his major courses numbered 200 or above.

The head of the department in which a student is taking his major is expected to make sure that the above conditions are met before recommending the student for graduation.

YOUNGSTOWN COLLEGE

Requirements for the Bachelor of Science
in Education Degree

Group Requirements

Group I

English (Including English Composition).....11 hours

Other English work may be substituted for English Composition at the discretion of the head of the English department, except for students who expect to teach English. No student shall be graduated who has not satisfied the head of the English department concerning his proficiency in the use of English.

Group II

Chemistry and Physics
or Biological Science.....12 hours

It is desirable to continue in college the science studied in high school in order to have a teaching subject in that field.

Group III

History and Government or Economics,
Sociology, Government, Philosophy.....9 hours
Psychology, Philosophy, Bible.....6 hours

Group IV

Same as Group IV requirements for the Bachelor of Arts Degree.

Major and minor requirements, total hour requirements, and distribution of work requirements for the Bachelor of Science in Education Degree are the same as those for the Bachelor of Arts Degree.

REQUIREMENTS FOR DEGREES

Requirements for the Bachelor of Science Degree

Curricula in Chemical Engineering, Mechanical Engineering, and Metallurgical Engineering have been set up. Curricula in Biology, Chemistry, Nursing, and Physics are being worked out.

All candidates for a Bachelor of Science degree are required to present six semester hours in English composition, three hours in economics, two in physical education, one in hygiene, one in orientation or survey, and a reading knowledge of one modern language. In most cases German is preferred.

See the respective curricula for detailed requirements.

Requirements for the Bachelor of Laws Degree

The entire course of study as outlined under Curricula is required for the Bachelor of Laws degree.

FEES AND EXPENSES

College of Arts and Sciences

All tuition and fees are due and payable at the time of enrollment. Students will not be permitted to attend classes until tuition has been paid, or payments have been satisfactorily arranged with the business manager.

Full-Time Students

Matriculation Fee (Payable once only)	\$5.00
Tuition (12-15 semester hours)	75.00
Each Additional Semester Hour (Academic) ..	5.00
Laboratory Fee (Chemistry or Physics)	
First credit hour	3.00
Each additional hour	2.00
Breakage Deposit (Chemistry or Physics) ..	3.00
Student Activity Fee	5.00
Athletic Fee	3.00
Gymnasium Fee	5.00
Hygiene Fee (When taken without gymnasium)	2.50
Graduation Fee	7.00
Library Fee	2.00

(For fees in Biology and Music, refer to Courses.
For Fine Arts courses see Page 33.)

Estimated Semester Expenses

Tuition	\$75.00
Student Activity Fee	5.00
Athletic Fee	3.00
Gymnasium Fee	5.00
Laboratory Fee	5.00
Library Fee	2.00
Books and Supplies	20.00

Total, \$115.00

Part-Time Students

(Students Carrying Less Than Twelve Semester Hours)

1½ semester hours	\$15.00
2 semester hours	25.00 & 20.00
3 semester hours	25.00
4 semester hours	32.50
5 semester hours	40.00
Each additional semester hour	5.00
Laboratory Fees (See above)	
Student Activity Fee (this includes Library and Athletic Fee)	2.50

FEES AND EXPENSES

Special Fees

The *Matriculation Fee* of \$5.00 (required of all new full-time students) covers the cost of registration and must accompany application for admission.

A *Late Registration Fee* of \$1.00 will be assessed all students enrolling after one week from the beginning of a new term.

A *Change in Registration Fee* of \$2.00 will be assessed for each change of schedule after the first week of the semester. Any change in schedule must be approved by the dean of the college before it becomes effective.

One *Transcript of Credits* to another college will be granted. A fee of \$1.00 is charged for each additional transcript.

Fine Arts Laboratory Courses:

Part-Time Students

Drawing and Painting from Life (3 hours) — \$45.00

Other Fine Arts Courses (3 hours) — 30.00

Part-time students carrying two or more Fine Arts courses will pay the following rates:

Six semester hours, including Life Class — \$72.50
not including Life Class — 57.50

Nine semester hours, including Life Class — 95.00
not including Life Class — 80.00

Full-Time Students

Students carrying Art courses as a part of a full college load (12-15 hours) will be assessed additional tuition for the courses as follows:

Drawing and Painting from Life — \$5.00 per credit hour

Other Fine Arts Courses — 2.50 per credit hour

Engineering Drawing Courses:

Mechanical Drawing and
College Mathematics (6 hours) — \$45.00

Mechanical Drawing and
Shop Mathematics (4 hours) — 40.00

Mechanical Drawing (2 nights) (3 hours) — 30.00

Psychological and English Tests Fee of 50¢ covers the cost of three tests which are required of all freshmen students, students who wish to teach, and students working toward a degree. Students taking the Vocational Guidance Test, in addition to the above, will pay \$1.00 for the four tests.

An *Educational Measurement Fee* of \$1.00 will be assessed against all students enrolling for courses in Educational Measurement and Vocational Guidance.

YOUNGSTOWN COLLEGE

Late Examination Fee \$1.00.

Supervised Student Teaching Fee \$10.00.

Installment Tuition

Students who elect to pay their tuition in installments shall make a down payment of at least twenty-five per cent of their total tuition at the time of enrolling and shall make satisfactory arrangements with the business manager for the payment of the balance of their tuition before they will be permitted to attend classes. All installment contracts must be paid in full on or before the expiration of two-thirds of a school term.

Students electing the installment plan will be assessed a carrying charge of ten per cent on the unpaid balance after the initial payment. (Minimum carrying charge of \$1.00.)

A student's failure to meet his installment payments as arranged will necessitate the withdrawal of his name from the class records.

No student will be permitted to enroll for a new semester until all previous tuition has been paid in full.

Withdrawals and Refunds

If a student is forced to withdraw from school for reasons beyond his control, he shall make application to the registrar or business manager. Failure to do so shall constitute waiver of any claim to a refund and an installment contract shall become due and payable in full.

No application for refund will be considered after one-third of a school term has elapsed, except in the case of illness, which makes it impossible for the student to attend classes and for which a doctor's certificate must be furnished. No application will be considered after midsemester.

School of Law

The tuition for each quarter is \$40.00.

A ten per cent discount will be allowed on all contracts paid in cash within ten days after the opening date of the quarter. Students who elect to pay their tuition in installments shall make a down payment of at least twenty-five per cent at the time of enrolling and shall arrange a satisfactory schedule of payments on the balance with the business manager. Failure to comply with the above will necessitate the withdrawal of the student's name from the class records.

No student will be permitted to enroll for a new quarter until all previous tuition has been paid in full.

Curricula

ART

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Art

First Year

Art 113-114	6 hrs.	Orientation	1 hr.
French	6 hrs.	Physical Education and Hygiene	2 hrs.
English 101-102	6 hrs.	Electives	6 hrs.
Art 110	3 hrs.		

Second Year

French	6 hrs.	Art 101, 102 or 201, 202	6 hrs.
Philosophy 203	3 hrs.	Physical Education and Hygiene	2 hrs.
Speech 115, 116	4 hrs.	Art Electives	6 hrs.
Social Science	6 hrs.		

Third Year

Philosophy 307, 308	6 hrs.	Social Science	3 hrs.
English 353	3 hrs.	Art Electives	3 hrs.
Physics 201-202	10 hrs.	Electives	6 hrs.

Fourth Year

Art Electives	9 hrs.	Electives	19 hrs.
Science Electives	3 hrs.		

BIOLOGY

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Biology

First Year

Biology 101-102	8 hrs.	Modern Language	6 hrs.
Chemistry 109-110 or 111-112 ..	8 hrs.	Physical Education and Hygiene ..	2 hrs.
English 101-102	6 hrs.	Orientation	1 hr.

Second Year

Biology 201-202 or 210-211	8 hrs.	Modern Language	6 hrs.
Chemistry 211	3 hrs.	Physical Education	2 hrs.
Chemistry 215	3 hrs.	Electives	10 hrs.

Third Year

Biology 330	4 hrs.	Social Science	9 hrs.
Biology 340	4 hrs.	English	5 hrs.
Psychology, Philosophy or Bible ..	6 hrs.	Electives	4 hrs.

Fourth Year

Biology 401	2 hrs.	Electives (300 or 400 Courses) ..	26 hrs.
Biology Elective (300 Course) ..	4 hrs.		

Other physical sciences may be added according to the needs of the individual.

For special preparatory courses, see the introductory statement under Biology, page 53.

BUSINESS ADMINISTRATION

The course in Business Administration offers an opportunity for students to secure an A. B. degree with a major in business administration. The purpose of this course is to give training in accounting and business administration.

The field of public accounting is particularly alluring. It is the aim of the school to prepare its students for accounting work and for the C. P. A. examination. This title, which is granted by the various states, is a mark of distinction which is recognized in all fields of accounting, public and private.

The course in Business Administration aims to develop general executives as well as specialists in the fields of marketing, advertising, and salesmanship.

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Business Administration

Specializing in Accounting

(Accounting 201-202 may not be applied toward a major.)

First Year

English 101-102	6 hrs.	Mathematics 111, 112.....	4 hrs.
Chemistry or Biology.....	8 hrs.	Accounting 201-202	6 hrs.
Business Organization 101....	3 hrs.	Physical Education and Hygiene	2 hrs.
Economics 104	3 hrs.	Orientation	1 hr.

Second Year

Accounting 308-309	6 hrs.	Speech 115, 116.....	4 hrs.
Economics 101, 102.....	6 hrs.	Business Organization 303....	3 hrs.
Modern Language	6 hrs.	Physical Education	2 hrs.
Business Organization 201....	3 hrs.	Electives	2 hrs.

Third Year

Accounting 301-302	6 hrs.	Speech 313	2 hrs.
Business Organization 322....	3 hrs.	Accounting 303-304	6 hrs.
Business Organization 324....	3 hrs.	Psychology 301	3 hrs.
Psychology 201	3 hrs.	Electives	4-6 hrs.

Fourth Year

To be planned with the advice of major professor.

Cooperative Plan

For students on the cooperative plan, the foregoing schedule of subjects will be followed. Due to the fact that the students are not in attendance continuously, and that summer work is taken, the time schedule will be arranged to meet the special needs of this group.

CURRICULA

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Business Administration

Specializing in Marketing, Salesmanship, or Management

(Economics 101-102 may not be applied toward a major.)

First and Second Years

Same as Suggested Curriculum for those specializing in Accounting, except that Accounting 308-309 are not required.

Third Year

Economics 207	3 hrs.	Speech 313	2 hrs.
Business Organization 322.....	3 hrs.	Psychology 201	3 hrs.
Business Organization 324.....	3 hrs.	Psychology 301	3 hrs.
Business Organization 327, 328..	4 hrs.	Electives	9 hrs.

Fourth Year

Business Organization 315.....	3 hrs.	Electives	25 hrs.
Business Organization 325.....	2 hrs.		

Suggested Curriculum for the Title of Associate in Business Administration

Specializing in Accounting

The special evening program outlined below includes the most essential courses for preparation for the fields of accounting and business administration, and is designed to meet the needs of students employed during the day. The following course may be completed in four years by taking summer school work.

The advanced evening classes are open to day students specializing in accounting or business administration.

First Year

English 101-102	6 hrs.	Accounting 201-202.....	6 hrs.
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Second Year

Accounting 308, 309.....	6 hrs.	Business Organization 303.....	3 hrs.
Business Organization 201.....	3 hrs.		

Third Year

Accounting 301	3 hrs.	Accounting 302	3 hrs.
Economics 101, 102.....	6 hrs.		

Fourth Year

Accounting 401-402	6 hrs.	Accounting 303, 304.....	6 hrs.
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Fifth Year

Accounting 403-404	6 hrs.	Accounting 405, 406.....	6 hrs.
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YOUNGSTOWN COLLEGE

Suggested Curriculum for the Title of Associate in Business Administration

Specializing in Marketing and Advertising

First Year

Business Organization 327, 328 .. 4 hrs.	English 101-102 6 hrs.
Business Organization 325 3 hrs.	Psychology 201 3 hrs.

Second Year

Business Organization 324 3 hrs.	Economics 101, 102..... 6 hrs.
Business Organization 329..... 3 hrs.	Electives 3 hrs.

Third Year

Business Organization electives. 6 hrs.	Electives 9 hrs.
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Fourth Year

Advertising Management 3 hrs.	Market Analysis 3 hrs.
Electives 10 hrs.	

CHEMISTRY

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Chemistry

First Year

English 101-102 6 hrs.	Mathematics 111-112 4 hrs.
Chemistry 109-110 or 111-112.. 8 hrs.	Mathematics 114 3 hrs.
French or German..... 6 hrs.	Physical Education and Hygiene 2 hrs.
Mathematics 103 3 hrs.	Orientation 1 hr.

Second Year

Mathematics 209-210 10 hrs.	French or German..... 6 hrs.
Chemistry 203 5 hrs.	Economics 3 hrs.
Chemistry 209 5 hrs.	Physical Education 2 hrs.

Third Year

Physics 201-202 10 hrs.	Chemistry 317 2 hrs.
Chemistry 304 5 hrs.	Biology 101-102 8 hrs.
Chemistry 306 3 hrs.	Speech 115 2 hrs.
Chemistry 315 3 hrs.	

Fourth Year

Chemistry 311-312 6 hrs.	English 3 hrs.
Chemistry 319-320 4 hrs.	*Psychology, Philosophy, or Bible 6 hrs.
Chemistry 407 1 hr.	Electives 4 hrs.
Social Science 6 hrs.	

*Should be taken earlier in the course if Modern Language permits.

Students who expect to continue in advanced work in chemistry should have the equivalent of one year of college French and two years of college German by the time they enter graduate study.

CURRICULA

ECONOMICS

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Economics

First Year

English 101-102	6 hrs.	Physical Education and Hygiene.	2 hrs.
Biology 101-102	8 hrs.	Orientation	1 hr.
Modern Language	6 hrs.	Electives	2 hrs.
Sociology 103, 104.....	6 hrs.		

Second Year

English 203, 204 or 206.....	6 hrs.	History 101, 102, or 105, 106....	6 hrs.
Modern Language	6 hrs.	Economics 101, 102.....	6 hrs.
Psychology 201, 202.....	6 hrs.	Physical Education	2 hrs.

Third Year

Accounting 201-202	6 hrs.	History 201, 202.....	6 hrs.
Economics 207, 208	6 hrs.	Electives	8 hrs.
Political Science 101, 102.....	6 hrs.		

Fourth Year

Economics 303, 401.....	6 hrs.	Sociology 307	3 hrs.
Economics 402, 408.....	6 hrs.	Electives	15 hrs.
Sociology 201	3 hrs.		

EDUCATION

The Department of Education of Youngstown College is approved by the Department of Education of the State of Ohio for the training of high school teachers. The courses in Education give the prospective teacher opportunity to secure both a theoretical background and practical experience in the teaching profession. Students who expect to qualify for the Four-Year Provisional Certificate of the State of Ohio must complete not less than twenty semester hours of professional training. The following courses are definitely required: Educational Psychology (three credits), Introduction to Teaching (three credits), Principles of Teaching (three credits), Classroom Administration, Organization, and Management (three credits), Special Methods in a high school subject (two credits), and Supervised Student Teaching (three to five credits). Prospective teachers are strongly urged to take at least two courses in speech. Not later than the beginning of his junior year, the student should consult with the head of the Department of Education to ensure that his plans for professional preparation are adequate.

All students in education are urged to participate in extra-curricular activities while in college in order that they may be qualified to direct such activities in high school. These activities include athletics, intramural sports, musical, dramatic, art, literary, and social organizations.

YOUNGSTOWN COLLEGE

In the subjects which he will teach in high school, the Department of Education of the State of Ohio requires that the prospective teacher shall have a major of at least eighteen semester hours and two minors of at least twelve semester hours each, in addition to certain high school prerequisites. Special Methods courses may be counted in computing majors and minors. Certain other courses in education may also be counted in computing majors and minors in certain subjects. A student may take a major in education by having at least thirty semester hours in education, but it should be realized that this major cannot be utilized as a high school teaching subject.

Suggested Curriculum for the Teacher Training Course Leading to the Bachelor of Arts Degree

First Year

English 101-102	6 hrs.	Social Science	3 hrs.
Modern Language	6 hrs.	Orientation	1 hr.
Laboratory Science	8 hrs.	Electives	6 hrs.
Physical Education and Hygiene	2 hrs.		

Second Year

Psychology 201	3 hrs.	Social Science	6 hrs.
Psychology 202	3 hrs.	Science or Mathematics	3 hrs.
Speech 115, 116	4 hrs.	Physical Education	2 hrs.
English 203 or 204	3 hrs.	Electives	6 hrs.

Third Year

Education 301	3 hrs.	Education 306	2 hrs.
Education 307	2 hrs.	Education 308	3 hrs.
Education 304	3 hrs.	Electives	17 hrs.

Fourth Year

Education 400	2 hrs.	Education 404	3 hrs.
Education 401	3 hrs.	Electives	22 hrs.

Major and Minor Requirements

Applicants for provisional high school certificates should complete one major and two minors in content material. A major requires the completion of not less than eighteen semester hours and a minor of not less than twelve semester hours, in addition to certain high school prerequisites.

Major—18 Sem. Hrs.

	Required 9 sem. hrs.
Mathematics	Col. Alg. 3
2 units	Col. Geom. 3
h. s.	Trig. 3

Elective 9 sem. hrs.

Any higher math.
Astronomy
Statistics
Excess in req. subjects
Com. Arith.

Minor—12 Sem. Hrs.

	Required 6 sem. hrs.
Col. Alg. 3
Col. Geom. 3

Elective 6 sem. hrs.

Same as major elective

CURRICULA

English
3 units
h. s.

Required 12 sem. hrs.

Eng. Comp.	6
Eng. and Am. Poetry.....	3
Eng. and Am. Prose.....	3

Elective 6 sem. hrs.

Public Speaking
Literature
Any other English or excess in requirement.

History
2 units
h. s.

Required 12 sem. hrs.

World History	3
American History	3
Government or Pol. Science.....	3
Modern Trends	3

Elective 6 sem. hrs.

Any other branch of secular history.
Excess credit in major requirements.

Social
Science
1 unit
h. s.
(May be
Hist. or
Geog.)

Required 9 sem. hrs.

Economics	3
Sociology	3
Ethics, Philosophy, Logic; Any one or any combination.....	3

Elective 9 sem. hrs.

Excess in req. subjects
Econ. Geog.
Social Civics
Indus. History
Commercial Geography
Industrial Geography

Biological
Science
1 unit
h. s.

Required 9 sem. hrs.

Zoology	3
Botany	3
or Gen. Biology.....	6
Physiology, Hygiene or Agriculture	3

Elective 9 sem. hrs.

Excess in req. sub.
Entomology
Bacteriology

Physical
Science
1 unit
h. s.

Required 12 sem. hrs.

Physics	6
Chemistry	6

Elective 6 sem. hrs.

Excess in req. sub.
Any branch of chem. or physics or
related physical science.

Earth
Science
1 unit
h. s.

Required 12 sem. hrs.

Geology	3 to 9
Geography	3 to 9

Elective 6 sem. hrs.

Excess in req. sub.

Latin
2 units
h. s.

18 sem. hrs.

College Latin in usual sequence

French
German
Spanish
Greek

Two units in h. s. and 18 sem. hrs.
college work in the subject in
which certification is desired

Required 6 sem. hrs.

Eng. Comp.	3
Eng. or Am. Prose and or Poetry	3

Elective 6 sem. hrs.

Same as major elective

Required 6 sem. hrs.

World History	3
American History	3

Elective 6 sem. hrs.

Same as major elective

Required 6 sem. hrs.

Economics	3
Sociology	3

Elective 6 sem. hrs.

Same as major elective

Required 6 sem. hrs.

Zoology; Botany	6
Gen. Biology	6
or any comb. of 6 sem. hrs.	

Elective 6 sem. hrs.

Same as major elective

Required 6 sem. hrs.

Physics	3
Chemistry	3

Elective 6 sem. hrs.

Same as major elective

Required 6 sem. hrs.

Geology	3
Geography	3

Elective 6 sem. hrs.

Same as major elective

12 sem. hrs.

College Latin in usual sequence

12 sem. hrs. in one language

YOUNGSTOWN COLLEGE

NOTES: (a) Methods courses in any of these subjects may be counted in computing majors and minors. Three semester hours of collegiate credit in any subject may be offered in lieu of each unit of the high school prerequisite in that subject.

(b) The 18 semester hours prescribed for a major in any subject may all be within the required group of subjects.

(c) The six semester hours of major or minor electives may all be credits in the required subjects in excess of those necessary to meet the main requirements, or may be any combination of such excess credits and those listed as minor requirements.

(d) The State Department recommends that institutions advise students as far as possible to prepare to teach in four academic fields. Most of them will be obliged to start their teaching in small high schools and their placement will be greatly facilitated by broadening their teaching abilities.

Curriculum for the Degree of Bachelor of Science in Education with a Major in the Teaching of Commercial Subjects

First Year

English 101-102	6 hrs.	Speech 115, 116.....	4 hrs.
Business Organization 101...	3 hrs.	Mathematics 111-112	4 hrs.
Business Letter Writing 103...	3 hrs.	Economics 104	3 hrs.
Physical Education and Hygiene	2 hrs.	Typing 101	3 hrs.
Orientation	1 hr.	Electives	3 hrs.

Second Year

Education 201	3 hrs.	Accounting 201, 202.....	6 hrs.
Laboratory Science	8 hrs.	Economics 101, 102.....	6 hrs.
Psychology 201, 202.....	6 hrs.	Physical Education	2 hrs.

Third Year

Education 304	3 hrs.	Education 301	3 hrs.
Business Organization 201...	3 hrs.	Accounting 308, 309.....	6 hrs.
Shorthand 301	4 hrs.	Electives	12 hrs.

Fourth Year

English 203	3 hrs.	Education 308	3 hrs.
Education 306	3 hrs.	Education 404	3 hrs.
Education 400	2 hrs.	Electives	12 hrs.
Shorthand 302	4 hrs.		

Note 1. The major for teachers of Business Education requires the completion of forty-five semester hours in required or approved subjects. Electives must be taken from the following courses: Office Management, Operation of Office Machinery, Intermediate Accounting, Analysis of Financial Statements, Money and Banking, Specialized Accounting, Salesmanship, Marketing, Advertising.

Note 2. The student should have a teaching major in English when he completes this curriculum. In order to do so, he should take English 203, Survey of English Literature; English 206, Survey of American Literature; and one other course in English in addition to the courses in English specified under the General Requirements. The courses in literature should be taken during the junior and senior years.

Note 3. Elective courses should be selected in such a way as to build up a teaching major or minor in social science or history or both.

CURRICULA

ENGINEERING

CHEMICAL ENGINEERING

Required Curriculum for the Bachelor of Science Degree in Chemical Engineering

Non-Cooperative Four-Year Plan

(When taken on Cooperative Plan, this course requires five years)

First Year

Chem. 109-110 or 111-112 General	8 hrs.	Math. 103 Trigonometry	3 hrs.
English 101-102 Composition	6 hrs.	C. E. 115 Survey of Engineering	1 hr.
M. E. 101, 102 Engineering	8 hrs.	Math. 114 Analytic Geometry	3 hrs.
Drawing	8 hrs.	Physical Education and Hygiene	2 hrs.
Math. 111-112 Algebra	4 hrs.		

Second Year

Math. 201-202 Calculus	10 hrs.	Chem. 209 Qualitative Analysis	5 hrs.
Physics 211-212 General	8 hrs.	German 101-102 Elementary	6 hrs.
Chem. 203 Quantitative Analysis	5 hrs.	Physical Education 205-206	2 hrs.

Summer

M. E. 213 Surveying	4 hrs.	M. E. 324 Statics	3 hrs.
M. E. 207 Foundry Practice	2 hrs.		

Third Year

Chem. 304 Organic	5 hrs.	C. E. 326 Metallurgy Laboratory, Ferrous	2 hrs.
Chem. 306 Organic Laboratory	3 hrs.	Chem. 419 Advanced Inorganic	2 hrs.
German 203 and 204 Intermediate	6 hrs.	Chem. 342 Metallurgical Analysis or Chem. 343 Gas and Fuel Analysis	3 hrs.
C. E. 323 Metallurgy, Non-Ferrous	2 hrs.	Economics	3 hrs.
C. E. 324 Metallurgy, Ferrous	2 hrs.	Physics 308 Thermodynamics	3 hrs.
C. E. 325 Metallurgy Laboratory, Non-Ferrous	2 hrs.	Electives	3 hrs.

Summer

General Option		Metallurgy Option	
C. E. 433 Unit Design	3 hrs.	C. E. 433 Unit Design	3 hrs.
C. E. 435 Unit Construction	6 hrs.	C. E. 437 Metallurgical Unit Construction	6 hrs.

Fourth Year

Chem. 311-312 Physical	3 hrs.	M. E. 326 Strength of Materials	3 hrs.
Chem. 319-320 Physical Laboratory	4 hrs.	Chem. 407 Chemical Literature	1 hr.
		Math. 315 Differential Equations	3 hrs.

General Option

Chem. 415 Electro	4 hrs.	Chem. 404 Organic Analysis	4 hrs.
Chem. 421 Advanced Organic or C. E. 441 Fluid Flow and Heat Transfer	2 hrs.	Chem. 440 Colloids or C. E. 444 Fluid Purification	2 hrs.
		Electives	6 hrs.

Metallurgy Option

C. E. 423 Metallography, Ferrous	3 hrs.	C. E. 430 Electrometallurgy	3 hrs.
C. E. 427 Ore Dressing	3 hrs.	Electives	6 hrs.
C. E. 424 Metallography, Non-Ferrous	3 hrs.		

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MECHANICAL ENGINEERING

Required Curriculum for the Bachelor of Science Degree in Mechanical Engineering

Non-Cooperative Four-Year Plan

(When taken on Cooperative Plan, this course requires five years)

First Year

Chem. 109-110 or 111-112 General	8 hrs.	Physical Education and Hygiene	2 hrs.
M. E. 101, 102 Eng. Drawing	8 hrs.	English 101-102 Composition	6 hrs.
Math. 103 Trigonometry	3 hrs.	Math. 111-112 Algebra	4 hrs.
M. E. 115 Survey of Engineering	1 hr.	Math. 114 Analytic Geometry	3 hrs.

Second Year

Math. 209-210 Calculus	10 hrs.	Physics 201-202 General	10 hrs.
Chem. 211 Qualitative Analysis	3 hrs.	Chem. 203 Quantitative Analysis	3 hrs.
German 101-102 Elementary	6 hrs.	Physical Education 205, 206	2 hrs.

Summer

M. E. 213 Surveying	4 hrs.	M. E. 324 Statics	3 hrs.
M. E. 207 Foundry Practice	2 hrs.		

Third Year

M. E. 325 Dynamics	3 hrs.	M. E. 328 Fluid Dynamics	
M. E. 326 Strength of Materials	3 hrs.	Laboratory	2 hrs.
Math. 315 Differential Equations	3 hrs.	M. E. 221 Shop Processes	3 hrs.
C. E. 324 Metallurgy, Ferrous	3 hrs.	Physics 307 Heat	3 hrs.
C. E. 326 Metallurgy, Ferrous	3 hrs.	Physics 308 Thermodynamics	3 hrs.
Laboratory	3 hrs.	Economics 101 Principles	3 hrs.
M. E. 327 Fluid Dynamics	3 hrs.	Speech 115 Public Speaking	2 hrs.
		Electives	3 hrs.

Summer

M. E. 321 Power	3 hrs.	M. E. 342 Engineering Materials	3 hrs.
Electives	3 hrs.		

Fourth Year

M. E. 329 Steam Power	3 hrs.	M. E. 351 Engineering Reports	3 hrs.
M. E. 330 Steam Power	3 hrs.	M. E. 412 Electrical Engineering	3 hrs.
Laboratory	2 hrs.	M. E. 422 Ventilation and Air	3 hrs.
M. E. 331 Internal Combustion	3 hrs.	Conditioning	3 hrs.
Engines	3 hrs.	Economics	3 hrs.
M. E. 401 Machine Design	3 hrs.	Electives	9 hrs.
M. E. 402 Hydraulics	3 hrs.		

ENGLISH

Suggested Curriculum for the Bachelor of Arts Degree with a Major in English

First Year

English 101-102	6 hrs.	Speech 115, 116	4 hrs.
Modern Language	6 hrs.	History 101, 102, or 105, 106	6 hrs.
Bible 104	2 hrs.	Mathematics	4-6 hrs.
Orientation	1 hr.	Physical Education and Hygiene	2 hrs.

Second Year

English 203, 204	6 hrs.	English 205, 206	6 hrs.
History 211-212	6 hrs.	Laboratory Science	8 hrs.
Modern Language	6 hrs.	Physical Education	2 hrs.

Third Year

English 351-352	6 hrs.	English 373-374	6 hrs.
English 371	8 hrs.	History 311, 312	6 hrs.
English 383	3 hrs.	Electives	3 hrs.
Bible 101, 102	4 hrs.		

Fourth Year

English 361	3 hrs.	English 363	3 hrs.
English 365-366	4 hrs.	English 367, 368	6 hrs.
		Electives	16 hrs.

CURRICULA

LAW

Required Curriculum Leading to the Bachelor of Laws Degree

First Year

Common Law Pleading.....	2 hrs.	Torts	4 hrs.
Contracts	6 hrs.	Agency	2 hrs.
Personal Property	2 hrs.		

Second Year

Torts	2 hrs.	Real Property II.....	2 hrs.
Criminal Law	2 hrs.	Sales	2 hrs.
Real Property I.....	2 hrs.	Real Property III.....	2 hrs.
Negotiable Instruments	2 hrs.	Bailments and Carriers.....	2 hrs.

Third Year

Equity	6 hrs.	Trusts	2 hrs.
Quasi Contracts	2 hrs.	Insurance	2 hrs.
Evidence	4 hrs.		

Fourth Year

Municipal Corporations	2 hrs.	Pleading and Practice.....	4 hrs.
Quasi Contracts	2 hrs.	Bankruptcy	2 hrs.
Partnership	2 hrs.	Domestic Relations	2 hrs.
Suretyship	2 hrs.		

Fifth Year

Wills	4 hrs.	Conflict of Law.....	2 hrs.
Constitutional Law	4 hrs.	Mortgages	2 hrs.

MATHEMATICS—PHYSICS

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Mathematics or Physics

First Year

Mathematics 103	3 hrs.	German	6 hrs.
Mathematics 114	3 hrs.	English 101-102	6 hrs.
Mathematics 111-112	4 hrs.	Physical Education and Hygiene	2 hrs.
Chemistry 109-110 or 111-112..	8 hrs.	Orientation	1 hr.

Second Year

Mathematics 209-210	10 hrs.	Psychology 201	3 hrs.
Physics 201-202	10 hrs.	Philosophy 303	3 hrs.
German 305-306	6 hrs.	Physical Education	2 hrs.

Third Year

Mathematics 314	3 hrs.	Geology 202, 203.....	4 hrs.
Mathematics 315	3 hrs.	Astronomy 201, 202.....	4 hrs.
Physics 303	3 hrs.	Social Science	6 hrs.
Physics 322	3 hrs.	French 101-102	8 hrs.

Fourth Year

Mathematics Elective or Physics Elective	6 hrs.	English 206	3 hrs.
English 203	3 hrs.	Social Science	3 hrs.
		Electives	15 hrs.

Students who wish to obtain a certificate to teach mathematics and physical science in high school, may pursue the same course of study, except for the replacing of the geology, astronomy, and modern language of the junior year, and the electives of the senior year, by education courses and minors as outlined by the Department of Education.

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MUSIC

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Music

First Year	
Music 101, 102	2 hrs.
Music 103-104	4 hrs.
Applied Music	3 hrs.
English 101-102	6 hrs.
Modern Language	6 hrs.
Biology 101-102	8 hrs.
Physical Education and Hygiene	2 hrs.
Orientation	1 hr.
Second Year	
Music 201-202	6 hrs.
Music 203, 204	4 hrs.
Modern Language	6 hrs.
History 101	3 hrs.
History 102	3 hrs.
Psychology 201	3 hrs.
Psychology	3 hrs.
Applied Music	3 hrs.
Physical Education	2 hrs.
Third Year	
Music 301, 302	4 hrs.
Music 303, 304	6 hrs.
Ethics or Philosophy	3 hrs.
History 303	3 hrs.
Applied Music	3 hrs.
English 315	3 hrs.
English 324	3 hrs.
Electives	6 hrs.
Fourth Year	
Music 401-402	6 hrs.
Applied Music	3 hrs.
Science	3 hrs.
Electives	19 hrs.

PHILOSOPHY

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Philosophy

First Year	
History 101 and 102 or 105, 106	6 hrs.
Economics 101, 102	6 hrs.
French, German, or Mathematics 111-112	4-6 hrs.
English 101-102	6 hrs.
Sociology 101	3 hrs.
Sociology 102	3 hrs.
Physical Education and Hygiene	2 hrs.
Orientation	1 hr.
Second Year	
History 311	3 hrs.
History 312	3 hrs.
French, German, Physics 201-202, or Chemistry	6-10 hrs.
English Literature 203, 204	6 hrs.
Philosophy 203	3 hrs.
Philosophy 205	2 hrs.
Physical Education	2 hrs.
Philosophy 207, 208	6 hrs.
Third Year	
Psychology 201	3 hrs.
English 309-310	6 hrs.
Psychology 302 or Sociology	3 hrs.
Biology 101-102	8 hrs.
Philosophy 301	3 hrs.
Philosophy 302	3 hrs.
Philosophy 305	3 hrs.
Philosophy 306	3 hrs.
Fourth Year	
Geology	4 hrs.
Astronomy	4 hrs.
Philosophy 307	3 hrs.
Philosophy 308	3 hrs.
Electives	16 hrs.

PRE-LAW

Pre-Law Curriculum

First Year	
English 101-102	6 hrs.
Biology 101-102 or Chemistry 109-110	8 hrs.
History 101, 102, or 105, 106	3 hrs.
Modern Language	6 hrs.
Speech 115-116	4 hrs.
Physical Education	2 hrs.
Second Year	
History 201 and 202 or History 211-212	6 hrs.
Political Science 101	3 hrs.
Political Science 102	3 hrs.
Psychology 201	3 hrs.
Philosophy 205	2 hrs.
Modern Language	6 hrs.
Electives	6 hrs.
Physical Education	2 hrs.

CURRICULA

PRE-MEDICAL AND ALLIED SCIENCES

Pre-Dental, Pre-Medical, Pre-Veterinary Medical

Suggested Curriculum Leading to the Bachelor of Arts Degree with Majors in Biology and Chemistry

First Year

Biology 101-102	8 hrs.	Chemistry 109-110 or 111-112..	8 hrs.
English 101-102	6 hrs.	Modern Language	6 hrs.
Orientation	1 hr.	Physical Education and Hygiene.	2 hrs.

Second Year

Biology 210-211	8 hrs.	Chemistry 203	5 hrs.
Chemistry 209	5 hrs.	Mathematics 103	3 hrs.
Mathematics 111-112	4 hrs.	Modern Language	6 hrs.
Physical Education	2 hrs.		

Third Year

Biology 310-311	8 hrs.	Chemistry 304	5 hrs.
Physics 201-202	10 hrs.	Chemistry 315	3 hrs.
Speech	2 hrs.	Chemistry 317	2 hrs.
		Social Science	3 hrs.

Fourth Year

Biology 340	4 hrs.	Biology 401	2 hrs.
Chemistry 311-312	6 hrs.	Social Science	6 hrs.
Psychology or Philosophy.....	6 hrs.	English (300 courses).....	5 hrs.
Electives (300 courses).....	5 hrs.		

Pre-Medical Technology

In preparation for Medical Technology the suggested curriculum for the Bachelor of Arts Degree with a major in biology should be followed, except for the following change in biology after the first year: *Biology* 210-211, 230, 305, 320, 330, in place of the recommended biological curriculum.

For the requirements of the individual schools of dentistry, medicine, veterinary medicine, and medical technology, see the head of the Department of Biology.

Combined Science-Nursing

Required Five-Year Curriculum for the Bachelor of Science Degree

(Preparation for hospital ward supervision and instruction in nursing schools.)

First Year

Biology 101-102	8 hrs.	Chemistry 117-118	10 hrs.
English 101-102	6 hrs.	Modern Language	6 hrs.
Orientation	1 hr.	Physical Education and Hygiene	2 hrs.

Second Year

First Semester

Biology 230	4 hrs.	Chemistry 215 and 216.....	5 hrs.
Psychology 201	3 hrs.	Sociology 103	3 hrs.
Nursing Orientation (Hospital course) One two-hour period a week			

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Beginning with the second semester of the second year until the first semester of the fifth year, inclusive, the student will take the Youngstown Hospital Nursing Course, leading to the diploma in Nursing. (For outline of course and list of instructors see special Youngstown Hospital bulletin.)

Fifth Year

*Second Semester

Economics 101	3 hrs.	Education 300, 301, or 303.....	3 hrs.
Psychology 202	3 hrs.	Electives	6 hrs.

*Regarded as the completion of the sophomore year, hence full credit will be received for courses numbered 100.

Pre-Nursing

The Pre-Nursing Course, in connection with the School of Nursing, Youngstown Hospital, is designed to meet the need for a better biological, sociological, and cultural background for nursing education.

The course of study including the nursing course will cover a period of four years. It will give the student approximately two years of college credits with the diploma in nursing, and qualify her for the state examination for the Registered Nurse's Certificate.

The first year the student will attend college and pursue without interruption those subjects outlined in the prescribed course.

The second, third, and fourth years will be spent in residence at the Youngstown Hospital School of Nursing, where study will be centered around the principles and practices of nursing and medical science. During this period the student is also given experience with the Visiting Nurses' Association, thus affording an opportunity for the application of her knowledge of the biological and social sciences to hospital, home, and community problems.

Upon completion of the clinical training at the hospital, subsequent work at the college leading to a degree in the arts or sciences increases the professional opportunities of the graduate nurse.

Pre-Nursing Curriculum

Chemistry 109-110 or 111-112..	8 hrs.	Psychology 201	3 hrs.
Biology 101-102	8 hrs.	Sociology 103	3 hrs.
English 101-102	6 hrs.	Physical Education and Hygiene	2 hrs.

CURRICULA

PSYCHOLOGY

Suggested Curriculum for the Bachelor of Arts Degree with a Major in Psychology

First Year

English 101-102	6 hrs.	Sociology 102	3 hrs.
Biology 101-102	8 hrs.	Physical Education and Hygiene	2 hrs.
French or German	6 hrs.	Orientation	1 hr.
Sociology 101	3 hrs.		

Second Year

English 203, 204, or 206	6 hrs.	Psychology 201, 202, or 206	6 hrs.
French or German	6 hrs.	Physical Education	2 hrs.
Biology 205	4 hrs.	Electives	6 hrs.
Sociology 204	3 hrs.		

Third Year

Psychology 202 or 206	3 hrs.	Philosophy 302	3 hrs.
Psychology 302	3 hrs.	Education 303	3 hrs.
Psychology 303	3 hrs.	Sociology 310	3 hrs.
Psychology 305	3 hrs.	Electives	7 hrs.
Philosophy 301	3 hrs.		

Fourth Year

Psychology 301	3 hrs.	Psychology Electives	7 hrs.
Psychology 306	2 hrs.	Electives	18 hrs.

SOCIAL SCIENCE

Suggested Curriculum for the Bachelor of Arts Degree with a Major in the Social Sciences

A major consists of forty-five hours, to be selected from history, economics, sociology, political science, and psychology.

First Year

English 101-102	6 hrs.	Physical Education and Hygiene	2 hrs.
Biology 101-102	8 hrs.	Orientation	1 hr.
Modern Language	6 hrs.	Electives	2 hrs.
Sociology 103, 104	6 hrs.		

Second Year

English 203, 204 or 206	6 hrs.	Economics 101, 102	6 hrs.
Modern Language	6 hrs.	History 101, 102, or 105, 106	6 hrs.
Psychology 201, 202	6 hrs.	Physical Education	2 hrs.

Third Year

Economics 207	3 hrs.	Accounting 201-202	6 hrs.
Economics 208	3 hrs.	History 201	3 hrs.
Political Science 101	3 hrs.	History 202	3 hrs.
Political Science 102	3 hrs.	Sociology 201	3 hrs.
		Electives	3 hrs.

Fourth Year

Psychology 301	3 hrs.	History 325	3 hrs.
Economics 401	3 hrs.	Psychology 307	3 hrs.
Economics 402	3 hrs.	Sociology 301	3 hrs.
Political Science 307	3 hrs.	Electives	6 hrs.
Political Science 308	3 hrs.		

COURSES OF INSTRUCTION

Courses are offered each year unless otherwise marked.

Courses marked with the date are not offered every year, but in most cases are offered on alternate years.

A course listed with a hyphen between numbers, as 101-102, indicates that credit is not given toward graduation for the work of one semester until the work of the other semester is completed except when special permission is granted by the head of the department involved. A course with a comma between the semester numbers, as 105, 106, indicates that the course extends throughout the year, but that credit toward graduation is given for the work of either semester.

Courses numbered from 101 to 199 are freshman courses; from 201 to 299, sophomore; and 301 and above are junior and senior courses.

ACCOUNTING

201-202. ELEMENTARY ACCOUNTING—Includes the theory of balance sheets, operating accounts, and working papers. Particular attention is given to the use of books of original entry and to the special ledger accounts. Setting up accounts, and adjusting and closing books at the close of the fiscal period, are developed through the use of a practice set and problems. Required of all who expect to take more advanced courses. This course does not count toward a major. *Three hours credit each semester.*

207. MATHEMATICS OF ACCOUNTING AND FINANCE—Covers short methods of computations, progressions, averages, turnover, compound interest, sinking funds, annuities, bond discount and premium, and logarithms. Advisable to have had one course in algebra. Prerequisite, Accounting 202. *Three hours credit.*

301. INTERMEDIATE ACCOUNTING—A study of corporate structure and accounts, together with such special subjects as actuarial science, averaging accounts, notes and acceptances, inventories, consignments, installment sales and fixed assets. Prerequisites, Accounting 201-202, 308-309. *Three hours credit.*

302. INTERMEDIATE ACCOUNTING—This subject covers investments, liabilities, funds and reserves, corrections of statements and books, analysis of statements, partnerships and venture accounts. Prerequisite, Accounting 301. *Three hours credit.*

303, 304. ADVANCED ACCOUNTING—The course covers such subjects as insurance, reserves, records, branch accounting, affiliated companies and consolidations. Prerequisite, Accounting 302. *Three hours credit each semester.*

305. SPECIALIZED ACCOUNTING—A course dealing with the requirements of different types of business, such as department stores, foundries, flour mills, banks, insurance companies, and others. Prerequisite, Accounting 302. *Three hours credit.*

307. ANALYSIS OF FINANCIAL STATEMENTS—A study of the structure of the balance sheets and operating statements of typical companies representing industries of the three groups, public utilities, industrials, and moneyed corporations. Particular attention is paid to the practical value of analysis, for purposes of determining business policies. Prerequisite, Accounting 302. *Three hours credit.*

ACCOUNTING, ART

308, 309. **COST ACCOUNTING**—A study of the principles of cost finding for manufacturing accounts. The work covered includes appropriate problems and a set of cost accounting books. The topics developed include the three-fold division of costing, with explanation of material accounting, payroll records, and the principles of recording and applying manufacturing expense. Special topics cover standard costs, estimating, and comparative costs. Prerequisite, Accounting 201-202.

Three hours credit each semester.

401-402. **AUDITING**—A study of the methods of auditing, stressing the verification of balance sheets and operating statements. Particular attention is given to the analysis and use of prepared statements. The practical side is developed through a series of cases and reports. Prerequisite, Accounting 302.

Three hours credit each semester.

403-404. **FEDERAL AND STATE TAXES**—This course covers such state taxes as domestic franchise, sales, use, and unemployment taxes. The federal group covers income, gift, estate, and capital stock taxes. Problems and actual tax returns are worked out as laboratory material to drill in the theory. Prerequisite, Accounting 302.

Three hours credit each semester.

405, 406. **C. P. A. QUIZ**—It is assumed that candidates for this course are familiar with principles of accounting and related subjects. All types of accounting and auditing problems will be solved and discussed from standpoints of theory and practice. Special emphasis is placed on accuracy and clearness of solutions of such problems as are encountered in C. P. A. examination. Lectures, tests, problems. Prerequisites, Accounting 304 and 401-402.

Three hours credit each semester.

ART

101, 102. **DRAWING AND PAINTING**—Principles of space division, light and shade, and their relation to form and pattern. Form thought as illuminated compared with form thought as having character. Color composition, experience with different media, pencil, charcoal, water color, opaque water color, and oil. Dealing with arrangements of still life, figures, and landscape elements to develop a sense of plastic composition.

Three hours credit each semester.

103-104. **POTTERY AND MODELING**—Making of shapes, coiling, hand-building, decoration and glazing. Tiles, figure heads, mold making and casting in plaster. Practice in typical problems in relief and in the round.

Three hours credit each semester.

105, 106. **ADVERTISING ART**—Plain and fancy lettering, designing and painting of commercial posters. Attention to layouts, design and color. Process in reproducing work, silk screen, linoleum block, photo bleach, monoprint, plain etching, soft-ground etching, drypoint, aquatint, lithograph, etc.

Three hours credit each semester.

110, 111. **COLOR AND DESIGN**—Color theories and harmonies. Creating of design, stylizing natural elements to develop design motifs, abstract design emphasizing forceful, expressive shapes, application of design. Discussion and study of the development of historical styles.

Three hours credit each semester.

112. **HOUSEHOLD ARTS**—A course to distinguish the different styles of the past in interior decoration, to appreciate the evolutionary process, to give confidence in the selection of materials in experiments with practical problems.

Three hours credit.

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113-114. HISTORY OF ART—GENERAL—A survey of the history of architecture, sculpture, painting, and the minor arts from pre-historic periods to the present day, to prepare the student for analytical discrimination in his own experiences. Art appreciation.

Three hours credit each semester.

201, 202. DRAWING AND PAINTING FROM LIFE—ELEMENTARY—Instruction in elementary and advanced drawing and painting from male and female models in the near nude. Individual instruction is given, the work of each student being under the constant direction of the instructor. When students in drawing have attained the required proficiency they are advanced to oils, and later to water color and pastel, if the student desires.

Three hours credit each semester.

206. HISTORY OF ART—ITALIAN RENAISSANCE—After a short survey of Byzantine Art, this course will consider in greater detail the work of the great figures in the major arts during the fourteenth, fifteenth, and sixteenth centuries in Italy, and their connection with the history and philosophy of the times. Prerequisite, Art 113-114.

Three hours credit.

207. HISTORY OF ART—MODERN ART—To follow course 206. A brief survey of the Italian Renaissance, its causes, achievements, and ideals. The study of European and American Art from the sixteenth century to the present day in relation to the history and philosophy of the times. Prerequisites, Art 113, 114, 206.

Three hours credit.

208, 209. ADVANCED MODELING—This course includes the completion of designs in a manner corresponding to practical studio work. Study of abstract volumes, creative design, and abstract design. Modern tendencies in pottery forms and figure work. Prerequisites, Art 103, 104.

Three hours credit each semester.

211, 212. ADVANCED COLOR AND DESIGN—Appreciation of design of the highest order. Emphasis on fine relationships of tone, line, and color. Design as intellectually understood and as emotionally felt. Psychological theory of color. Color systems.

Three hours credit each semester.

213, 214. ADVANCED DRAWING AND PAINTING—Emphasis on organization, with actual spatial composition. To develop the power to see significantly rather than imitatively. Explorative methods encouraged. Prerequisites, Art 101, 102.

Three hours credit each semester.

301, 302. DRAWING AND PAINTING FROM LIFE — ADVANCED—Continuation of Art 201, 202.

Three hours credit each semester.

ASTRONOMY

201, 202. ASTRONOMY—A descriptive and non-mathematical study of the stars and the solar system. An analysis of the present theories of the universe and some observational sessions with telescope and field glass. (1939-40)

Two hours credit each semester.

BIBLE AND RELIGIOUS EDUCATION

101. THE LIFE OF CHRIST—Two hours of lecture and recitation each week. This course is based on the four gospels, with particular attention to one of them. The student is encouraged to think and evaluate for himself the unique personality of Jesus.

Two hours credit.

BIBLE, BIOLOGY

102. THE APOSTOLIC AGE—The aim of the course is to enable the student to grasp the significance of the progress of Christianity. The study will deal with the Acts of the Apostles and certain of the epistles. The work and teachings of St. Paul will be considered in their relation to the development and activity of the early church. (1938-39)

Two hours credit.

104. OLD TESTAMENT—This course traces the Old Testament record from Genesis to the return from captivity. Special attention is given to the Patriarchal Age, the Deliverance of Israel from bondage, the Mosaic laws, the institution of the Hebrew system of worship, the conquest and division of Canaan, the captivities and return therefrom. The historical background of the surrounding nations, the historical geography of Palestine, and the results of recent archaeological research are touched upon, especially as these help to unfold the history of the period. (1939-40)

Two hours credit.

BIOLOGY

Three types of major study are available in this department, namely, *General Biology* (courses 101-102, 201, 202, 210, 211, et al., preparation for high school teaching, nature counseling, museum work, agricultural study, wildlife conservation study), *Botany* (courses 101-102, 201, 202, 301, et al., preparation for college teaching, research, forestry study), and *Zoology* (courses 101-102, 210, 211, 305, 306, 310, et al., preparation for college teaching, research, medical science study).

Pre-agricultural science study (preparation for study of agriculture, wildlife conservation, forestry) will vary according to professional school requirements, hence no general curriculum is suggested here; the pre-agricultural science student should arrange his curriculum with the head of the department in accordance with his special needs. The preparation for nature counseling (summer camp nature study instruction, etc.) and special study leading to museum work (collecting, identifying, mounting and displaying biological specimens), college (and university) biology teaching and biological research (university, state, government, etc.) will vary according to individual needs, hence the head of the department should be consulted by those who are interested in these fields of work.

All of the four-hour courses in the Department of Biology are taught as correlated "lecture-laboratory" courses, i. e., there are no distinct "lecture" and "laboratory" sessions. In all biology courses, approximately three hours of work per week are required for one hour of credit received.

101-102. GENERAL BIOLOGY—General study of living organisms. Fee, \$5.00 each semester.

Four hours credit each semester.

201. BOTANY—PLANT MORPHOLOGY AND PHYSIOLOGY—Structure and activities of plants. Prerequisite, Biology 101-102. Fee, \$5.00. (1939-40)

Four hours credit.

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202. BOTANY—PLANT TAXONOMY AND ECOLOGY—Classification of plants and their relation to their surroundings. Prerequisite, Biology 101-102. Fee, \$5.00. *Four hours credit.*
210. ZOOLOGY—INVERTEBRATE—General study of the invertebrate animals. Prerequisite, Biology 101-102. Fee, \$5.00. *Four hours credit.*
211. ZOOLOGY—VERTEBRATE—General study of the vertebrate animals. Prerequisite, Biology 101-102. Fee, \$5.00. *Four hours credit.*
230. PHYSIOLOGY—HUMAN AND GENERAL VERTEBRATE—Functioning of vertebrate structures. Prerequisite, Biology 101-102 and a knowledge of elementary chemistry. Fee, \$2.00. *Four hours credit.*
301. ADVANCED PLANT PHYSIOLOGY—Plant processes. Prerequisites, Biology 201-202, and two years of college chemistry. Fee, \$7.00. (1939-40) *Four hours credit.*
305. PARASITOLOGY—The protozoan, helminth, and arthropod parasites of man and other animals. Prerequisite, Biology 210-211. Fee, \$5.00. (1939-40) *Four hours credit.*
306. ENTOMOLOGY—General study of the insects. Prerequisite, Biology 210-211. Fee, \$5.00. (1938-39) *Four hours credit.*
310. VERTEBRATE ANATOMY—Comparative study of the structure of vertebrate organ systems. Prerequisite, Biology 210-211. Fee, \$7.00. *Four hours credit.*
311. VERTEBRATE EMBRYOLOGY—Comparative study of the early developmental stages of the vertebrates. Prerequisite, Biology 310. Fee, \$5.00. (Summer) *Four hours credit.*
312. VERTEBRATE HISTOLOGY—Structure of vertebrate tissues. Prerequisite, Biology 311. (Summer) *Four hours credit.*
320. BACTERIOLOGY—General study of the bacteria. Prerequisites, Biology 201-202 or 210-211 and two years of college chemistry. Fee, \$7.00. (1939-40) *Four hours credit.*
330. MICROTECHNIC—Preparation of plant and animal material for microscopic examination. Prerequisite, Biology 201-202 or 210-211 and one year of college chemistry. Fee, \$7.00. (1939-40) *Four hours credit.*
340. GENETICS—Principles of inheritance, organic evolution and its mechanism, and eugenics. Prerequisite, two years of college biology, or one year of college biology and one year of psychology or sociology; junior standing. Fee, \$2.00. *Four hours credit.*
401. SEMINAR—The history of biology, and the final preparation for professional or graduate study. Open only to biology majors in the senior year.

BUSINESS ORGANIZATION

101. **PRINCIPLES OF BUSINESS**—An introductory course in business administration which is designed to give the student information concerning the development of forms of business enterprises, management, relationship between employer and employee, credit, banking, and elementary accounting. *Three hours credit.*

201. **BUSINESS LAW**—This course is designed to give the student a practical working knowledge of contracts, agency, negotiable instruments, bailments, carriers, and sales. A study of legally binding agreements between persons, and their enforcement, including the making of a contract, the effect of fraud, duress, undue influence, etc. *Three hours credit.*

303. **BUSINESS LAW**—A study of the law of partnerships, corporations, property, bankruptcy, and insurance. The course covers wills, estates, and the relationships of debtor and creditor. *Three hours credit.*

315. **CORPORATION FINANCE**—A study of promotion of new industries, capital structure of corporations, evolution of a business, working capital, surplus, dividends, voting trusts, investment trusts, public utilities, cooperative plans and reorganizations. (1939-40) *Three hours credit.*

322. **CREDITS AND COLLECTIONS**—This course deals with credit instruments and classes of credit. Also credit agencies, collection agencies, collections, collection methods, and the place of the credit man in business. Prerequisite, Economics 307. *Three hours credit.*

324. **MARKETING**—A general survey of the field of marketing. A study of marketing functions and policies and marketing institutions. Prerequisite, Economics 101. *Three hours credit.*

325. **SALESMANSHIP**—This course covers a knowledge of goods, study of customers and their wants, buying motives, planning a sale, attitudes of buyers, meeting objections, closing the sale, cultivation of personality, problems in sales management, sales organization, sales planning and research, and others. *Three hours credit.*

327. **ADVERTISING PRINCIPLES**—A survey study of advertising as an instrument of modern business, economics of advertising, advertising research, media, trade-marks, campaigns. A discussion of copy writing, type, layout, methods, and the psychology of advertising. *Two hours credit.*

328. **ADVERTISING PRACTICE**—This course offers an opportunity for practical application of the principles taught in Advertising Principles. The work covers study of the product, selection of mediums, determination of appeals to be made and the amount of space desired, problems of writing copy, type faces and type problems, and layout of advertisements. Prerequisite, Business Organization 327. *Two hours credit.*

329. **ADVERTISING COPY**—An advanced course stressing the practical application of the subjects covered in Advertising Principles. Writing of newspaper, magazine, direct-mail and radio script copy is executed in class under skilled supervision. Advanced layout design is also presented comprehensively. Training aimed to develop all talents for writing. Prerequisite, Business Organization 328. *Three hours credit.*

330. **INSURANCE**—A general course covering the many different types of insurance, such as life, fire, tornado, windstorm, marine, workman's compensation, title, bonds, and many others. The course includes the fundamentals of rate making, reinsurance, organization and management of insurance companies, and legal interpretations of the insurance contract. *Three hours credit.*

CHEMISTRY AND CHEMICAL ENGINEERING

The courses offered in chemistry will enable the student not only to major in the subject and acquire the fundamental background necessary for graduate work, or any specialized study, but also to take additional courses in the field of chemistry in which he is especially interested.

Chemistry majors, studying for the A. B. degree, are required to take the following courses: 109 or 111, 110 or 112, 203, 209, 304, 306, 311, 312, and 407. Those studying for the B. S. degree in chemistry are required to take the following courses in addition: 319, 320, 419, 421, and 401, 342, 343, or 404.

As the work in chemical engineering is being newly introduced there will be no demand for a year or two for a number of advanced courses. For this reason the descriptions of all courses are not included in the catalog this year. The courses required for the engineering work are listed in the chemical engineering curriculum.

109-110. GENERAL CHEMISTRY—Two lectures and recitations and two two-hour laboratory periods each week. A study is made of the non-metallic elements and of the fundamental laws and principles of chemistry. For those who have not had chemistry in high school.

Four hours credit each semester.

111-112. GENERAL CHEMISTRY—Hours and credits same as 109-110. A more advanced course in general chemistry for those who have had a satisfactory year's work in high school.

Four hours credit each semester.

115. SURVEY OF ENGINEERING—Lectures, readings, and reports. The student is helped to see the profession of engineering in its entirety so he may better select the phase in which he is most interested and best fitted.

One hour credit.

203. QUANTITATIVE ANALYSIS—One lecture and recitation and twelve hours laboratory each week. Gravimetric, volumetric, and colorimetric analysis. Prerequisite, Chemistry 209.

Five hours credit.

209. QUALITATIVE ANALYSIS—Two lectures and eight hours of laboratory each week. A course in the systematic separation and detection of the more common cations and anions and also the determination of a number of salts. Considerable emphasis is placed upon the theory underlying the work. For chemistry majors. Prerequisite, Chemistry 109-110 or 111-112.

Five hours credit.

211. QUALITATIVE ANALYSIS—One lecture and five hours of laboratory work each week. A course in the systematic separation and detection of the cations, including a study of the theory underlying the work. This course is designed for students who do not care for the full five-hour course and for those who wish to divide the qualitative work into two semesters. Prerequisite, Chemistry 109-110 or 111-112.

Three hours credit.

212. QUALITATIVE ANALYSIS—One lecture and five hours of laboratory work each week. This course follows 211 and deals with the anions and salts. Prerequisite, Chemistry 211.

Three hours credit.

CHEMISTRY AND CHEMICAL ENGINEERING

213. LABORATORY TECHNIQUE—A laboratory course including discussions. The course is offered for the purpose of developing greater skill in constructing and setting up apparatus which is so often needed by research students and teachers of chemistry. Prerequisite, Chemistry 109-110 or 111-112. *One to three hours credit.*

215. ORGANIC CHEMISTRY—Three lectures and recitations each week. A course in organic chemistry briefly covering the nomenclature, properties, and departments of aliphatic and aromatic carbon compounds with emphasis on the biological phases of organic chemistry during the latter part of the course. For biology majors. Prerequisite, Chemistry 209 or Chemistry 211. *Three hours credit.*

216. ORGANIC CHEMISTRY — Two three-hour laboratory periods each week which include one discussion period. The work consists of the preparation and study of typical aliphatic and aromatic compounds and experiments of general biochemical nature. Prerequisite or concurrent, Chemistry 215. *Two hours credit.*

217. QUANTITATIVE ANALYSIS—Two three-hour laboratory periods including one discussion. This course covers the gravimetric work of Chemistry 203. Prerequisite, Chemistry 209 or 212. *Three hours credit.*

218. QUANTITATIVE ANALYSIS—Two three hour laboratory periods including one discussion. This course covers the volumetric work of Chemistry 203. Prerequisite, Chemistry 209 or 212. *Three hours credit.*

304. ORGANIC CHEMISTRY — Five lectures and recitations each week. A study is made of the nomenclature, properties, and departments of the aliphatic aromatic carbon compounds. Prerequisite, Chemistry 209. *Five hours credit.*

306. ORGANIC CHEMISTRY—Three three-hour laboratory periods each week which include one discussion period. The work consists of the preparation and study of typical aliphatic and aromatic compounds. Prerequisite or concurrent, Chemistry 304. *Three hours credit.*

308. ORGANIC CHEMISTRY—Three hours of laboratory work each week with references. Advanced organic preparations. Prerequisite or concurrent, Chemistry 306. *One hour credit.*

311-312. PHYSICAL CHEMISTRY — Three lectures and recitations each week. A course in the principles of theoretical chemistry, including the study of: The structure of matter, equilibria, chemical kinetics, chemical thermodynamics, electrochemistry, catalysis, and mechanism of reaction. Problem work is included. Prerequisite, Chemistry 209. Prerequisite or concurrent, Mathematics 201-202 and Physics 201-202. *Three hours credit each semester.*

315. BIOLOGICAL CHEMISTRY—Three lectures and recitations. A course designed to follow general organic chemistry for those students interested in the biological sciences and medicine. Prerequisite, Chemistry 304. (1939-40) *Three hours credit.*

317. BIOLOGICAL CHEMISTRY—One hour discussion and five hours laboratory work each week. A laboratory course to accompany or follow Chemistry 315. (1939-40) *Two hours credit.*

319-320. PHYSICAL CHEMISTRY—Two three-hour laboratory periods each week including one discussion period. Quantitative investigation of gas laws, surface tension, speed of reaction, solutions, phase diagrams, electromotive force, hydrogen ion concentration, and absorption. Prerequisite or concurrent, Chemistry 311-312. *Two hours credit each semester.*

323. METALLURGY, NON-FERROUS — Two lectures and recitations each week. A study of the sources and content of non-ferrous ores, the design and operation of various metallurgical furnaces, extraction and refining methods, properties and uses of the metals and their alloys. Prerequisite, Chemistry 203. *Two hours credit.*

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324. METALLURGY, FERROUS — Two lectures and recitations each week. A study of iron and steel, beginning with location of ore bodies and following through various processes to the salable product. The study includes construction of furnaces, smelting, and refining operations; fuels, refractories, and fluxes used; temperature measurements, mechanical operations, and value and uses of finished product. Prerequisite, Chemistry 203.

Two hours credit.

325. METALLURGY, NON-FERROUS—Two three-hour laboratory periods each week including one discussion period. The work includes the making and study of cooling curves of pure metals, making and calibration of thermocouples, and the building of phase diagrams of the lower melting alloys. Prerequisite or concurrent, Chemistry 323.

Two hours credit.

326. METALLURGY, FERROUS — Two three-hour laboratory periods each week including one discussion period. A laboratory course designed to familiarize the student with the physical properties of iron and steel. Experiments are performed to determine the effects of heat treatment, hot work, cold work, and the relation of the phase diagram to such effects. The work is supplemented with plant visits. Prerequisite or concurrent, Chemistry 324.

Two hours credit.

342. METALLURGICAL ANALYSIS — One lecture and two three-hour laboratory periods each week. A qualitative and quantitative analysis of natural ores, commercial alloys, and fluxes. Prerequisite, Chemistry 203.

Three hours credit.

343. GAS AND FUEL ANALYSIS—One lecture and two three-hour laboratory periods each week. The work consists of the analysis of natural and artificial gases, gas calorimetry, analysis and calorimetry of coal, and the analysis and physical testing of oils. Prerequisite, Chemistry 203.

Three hours credit.

401. ADVANCED QUANTITATIVE ANALYSIS—Six or nine laboratory hours which include one discussion period. The work includes colorimetric, turbidimetric, and hydrogen ion determinations. Prerequisite, Chemistry 203 or its equivalent.

Two to four hours credit.

404. ORGANIC ANALYSIS—Twelve laboratory hours each week including one discussion period. The work is a study of systematic methods of separation, purification, and identification of organic compounds, and practice in the standard methods for the quantitative analysis of organic compounds. Prerequisite, Chemistry 306. (1938-39)

Four hours credit.

407. CHEMICAL LITERATURE—Conferences and reports. Designed to train the student in the use of chemical journals, dictionaries, hand books and reference books. The student is required to abstract articles and work out bibliographies. Prerequisite, Chemistry 304.

One hour credit.

419. ADVANCED INORGANIC CHEMISTRY—Two lectures and recitations each week. An advanced course in inorganic chemistry stressing the more difficult points of theory. Prerequisite, Chemistry 209. (1938-39)

Two hours credit.

421. ADVANCED ORGANIC CHEMISTRY—Two lectures and recitations each week. An advanced course in theory of organic chemistry. Prerequisite, Chemistry 304. (1938-39)

Two hours credit.

423. METALLOGRAPHY, FERROUS — One lecture and two three-hour laboratory periods. A study of the alloys of iron, including the microscopic examination of these alloys and a study of the cooling curves and diagrams and determining the correlation of mechanical work, heat treatment and physical properties with physical and chemical structure. Prerequisite, Chemistry 326.

Three hours credit.

ECONOMICS, EDUCATION

424. METALLOGRAPHY, NON-FERROUS — One lecture and two three-hour laboratory periods each week. A study of the underlying theories of the solidification of non-ferrous metals and alloys, alloy types, and the phase rule and its application to the phase diagram. Microscopic examination is made of the non-ferrous alloys. Prerequisite, Chemistry 326.
Three hours credit.

ECONOMICS

101, 102. PRINCIPLES OF ECONOMICS — This is the introductory course in economics, prerequisite to all other courses in the department. It attempts to familiarize the student with economic terminology, and with some of the characteristics of contemporary economic life. The fundamental principles of capitalism are studied and compared with the basic principles of rival economic systems.
Three hours credit each semester.

104. ECONOMIC GEOGRAPHY—An elementary survey of the raw materials of the earth, methods of livelihood, land utilization, and population problems.
Three hours credit.

207. FINANCIAL ORGANIZATION—The aim of the course is two-fold; first, to furnish a foundation for the more technical studies in the field of finance; and second, to describe the financial institutions with which the average person comes in contact in life, such as the commercial bank, building and loan association, finance company.
Three hours credit.

MARKETING—See Business Organization 324.

303. ECONOMIC HISTORY OF THE UNITED STATES—A study of the influence of economic forces on the evolution of our national life and their effect upon our religious and social development.
Three hours credit.

304. PUBLIC FINANCE—A survey of the development and present status of public finance; federal, state, and local taxation; public credit; the budget; financial administration.
Three hours credit.

401. LABOR PROBLEMS—A historical and critical study of the labor movement in this country and in England, with special emphasis on the structure and functions of trade unions at the present time.
Three hours credit.

402. SYSTEMS OF REFORM — Russian communism, German nazism, and Italian fascism are studied as rivals of American capitalism.
Three hours credit.

408. ECONOMIC THEORY—A course for seniors majoring in economics. A part of the course is concerned with the history of economic theory. This is followed by a study of several leading economists of the present time, and an introduction to some of the significant writings in the field.
Three hours credit.

EDUCATION

201. INTRODUCTION TO TEACHING—An orientation course in education aiming to give the prospective teacher a general view of the school of today and of its historical development. Each student should build for himself a sound philosophy of education based on the findings of science and with a forward-looking attitude toward the ideal school of tomorrow. The qualifications and preparation of the prospective teacher are studied. Open to sophomores, juniors, and seniors.
Three hours credit.

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301. PRINCIPLES OF TEACHING—A study of general methods of high school teaching; typical classroom procedure, the methods utilized by superior teachers, attention to individual differences, measuring the results of teaching, planning the instruction. Observation of teaching in high schools. Open to juniors and seniors. *Three hours credit.*

304. CLASSROOM ADMINISTRATION, ORGANIZATION, AND MANAGEMENT—A study of problems of classroom control, attendance, organization, curriculum, program, procedure, and of extracurricular activities, in the light of a modern philosophy of education. Observation of teaching in high schools. Open to juniors and seniors. *Three hours credit.*

306. EDUCATIONAL MEASUREMENT AND GUIDANCE—A study of the construction, administering, scoring, and interpreting of the new type objective examination; the selection, administering, scoring and interpretation of results of standardized tests and scales, and their use in vocational and educational guidance. Open to juniors and seniors. Fee, \$1.00. *Two hours credit.*

306A. EDUCATIONAL MEASUREMENT, GUIDANCE, AND STATISTICS—The same as Education 306, with the addition of a study of elementary statistics as applied to educational data. *Three hours credit.*

307. HISTORY OF EDUCATION—A study of the historical development of educational organizations, objectives, curricula, and methods with special reference to a better understanding of modern educational conditions and problems. The place of education in various civilizations, especially our modern Western civilization, is studied. This course may be counted also on a major or minor in history. Open to sophomores, juniors, and seniors. *Two or three hours credit.*

308. EDUCATIONAL SOCIOLOGY—A study of sociological foundations of education; the relation of the individual and the social group, the school as a social institution, the relations of the home, the community, and the state and education, the relations of social control, social progress, democracy, efficiency, and culture and education; and a study of the social aspects of specific school problems; the selection of educational objectives, the educative process, the curriculum, educational guidance, school control, moral education, and the selection and improvement of teachers. This course may be counted on a major or a minor in sociology. Open to sophomores, juniors, and seniors. *Three hours credit.*

400. SPECIAL METHODS—A study of problems involved in the teaching of different high school subjects. Each student will specialize on the subject of his special interest. Observation of teaching in public secondary schools; reports; term paper. Each student will have a conference each week with the head of the department of his major teaching subject. At least one-fourth of the instruction in the course will be given by that department head or by some teacher appointed by him. Prerequisite, Education 301. Open to seniors. *Two hours credit.*

404. SUPERVISED STUDENT TEACHING—Observation and teaching of high school classes under the direction and guidance of supervisors. Students meet in class one period each week for announcements and to discuss problems. Conferences with the instructor or the critic teacher will be scheduled or on call. To take this course students must make written application on the form provided for this purpose during the previous semester, and must have the unqualified approval of the heads of the departments in which he is specializing for the purpose of teaching, and of the head of the Department of Education. He must also present a statement from the English department certifying that his use of oral and written English is of the quality satisfactory for high school teaching. In general, a quality point average of 2.00 in his major and minor departments will qualify a student to enter this course. It is clearly understood, however,

ENGINEERING, ENGLISH

that the actual classroom teaching must be satisfactory; otherwise, it may be discontinued at any time. Open to approved seniors during their last semester in college. Fee \$10.00. *Three to five hours credit.*

EDUCATIONAL PSYCHOLOGY—See Psychology 202.

ENGINEERING

CHEMICAL ENGINEERING—See Chemistry.

MECHANICAL ENGINEERING—See Physics.

ENGINEERING DRAWING

101, 102. PRINCIPLES OF ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY—Four two-hour periods of lecture and laboratory each week. Consists of orthographic projection, isometric drawing, sketching, detail drawing of castings and machine parts, angular and parallel perspective, and development of intersections of solids. Last twelve weeks of second semester devoted to Descriptive Geometry.

Four hours credit each semester.

201-202. ENGINEERING DRAWING—Lectures and discussions of engineering forms, detail drawings, scale drawings of structural and machine parts.

Four hours credit each semester.

(For description of other engineering subjects see departments under which offered.)

ENGLISH

English majors are expected to complete courses 101-102; 203, 204; or 205, 206; 351-352, and Speech 115. Course 205 or 206 is required of all students who plan to teach high school English, and may be substituted for 204. English 101-102 is prerequisite to all other English courses.

101-102. ENGLISH COMPOSITION—A study of the elementary principles of composition, to teach the habits of clear and correct expression. Reading of models, writing of themes, class discussions, and personal conferences. Prerequisite to all other English courses.

Three hours credit each semester.

203, 204. SURVEY OF ENGLISH LITERATURE—A study of the masterpieces of English prose and poetry, with emphasis on forms and backgrounds. Prerequisite, English 101-102.

Three hours credit each semester.

205, 206. SURVEY OF AMERICAN LITERATURE—First semester: Colonial times to 1860. Second semester: Civil War to the present. Prerequisite, English 101-102.

Three hours credit each semester.

213. JOURNALISM—News writing and reporting, page make-up, editorial writing, theory and practice. Studies of form, content, purpose, and ethics of journalism. This course is designed to meet the need for a motivated, advanced English course. Prerequisite, English 101-102. (1939-40)

Three hours credit.

351-352. HISTORY OF THE ENGLISH LANGUAGE—A survey of the development of the language from Old English to Modern English, with an intensive study of Modern English sounds, inflections, syntax, word meanings, and usage. Prerequisite, English 101-102.

Three hours credit each semester.

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353. **ADVANCED COMPOSITION**—A course in writing for students who wish to go beyond English 101-102. Opportunity will be given for the development of creative ability. Group meetings and individual conferences. Prerequisite, English 101-102. (1938-39) *Three hours credit.*
361. **ENGLISH NON-DRAMATIC LITERATURE OF THE SIXTEENTH AND SEVENTEENTH CENTURIES**—A study of the more important works in prose and verse from the early humanists to the death of Dryden. Particular attention will be given to such men as Lyly, Sidney, Spenser, Bacon, Milton, Butler, and Dryden. Prerequisite, English 101-102 (1939-40) *Three hours credit.*
363. **ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY**—A study of English literature from the reign of Anne to the Romantic period, with attention to such major figures as Defoe, Addison, Steele, Pope, Swift, Johnson, Goldsmith, Boswell, Gibbon, and Burns. Prerequisite, English 101-102. (1939-40) *Three hours credit.*
- 365-366 **ROMANTIC PERIOD**—First semester: Prose—Lamb, Hazlett, Hunt, DeQuincey, and Landor. Second semester: Poetry—Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Prerequisite, English 101-102. (1938-39) *Two hours credit each semester.*
- 367-368. **VICTORIAN LITERATURE**—A study of the principal literary figures from 1832 to 1914, including Carlyle, Tennyson, Browning, Arnold, Macaulay, Ruskin, and Swinburne. Prerequisite, English 101-102. (1939-40) *Three hours credit each semester.*
371. **CHAUCER AND HIS PERIOD**—Reading of Chaucer's principal works, and a brief survey of his predecessors, contemporaries, and successors. Prerequisite, English 101-102. (1938-39) *Three hours credit.*
- 373-374. **SHAKESPEARE**—An intensive study of Shakespearean drama and its relation to the life and literature of Elizabethan England. Prerequisite, English 101-102. *Three hours credit each semester.*
381. **THE ENGLISH NOVEL**—A study of the history and development of the novel in England during the eighteenth and nineteenth centuries. Prerequisite, English 101-102. (1938-39) *Three hours credit.*
383. **HISTORY OF ENGLISH DRAMA**—A survey of English drama from the sixteenth century to the nineteenth, excluding Shakespeare. Emphasis will be mainly on the works of Elizabethan and Restoration writers. Prerequisite, English 101-102. (1938-39) *Three hours credit.*
385. **MODERN DRAMA SINCE 1870**—A survey of the field of modern drama, particularly the one-act play. Emphasis on appreciation, structure, and laws of English, Irish, and American productions. Prerequisite, English 101-102. (1938-39) *Three hours credit.*

Speech

- 115, 116. **FUNDAMENTALS OF SPEECH**—This course aims to develop self-expression through the medium of mind, body, and voice. The attainment of this objective is sought by a study of proper speech habits and practice in the delivery of numerous extemporaneous and memorized speeches. Some time is devoted to speech recording and to a study of radio speech problems. *Two hours credit each semester.*
- 219, 220. **PLAY PRODUCTION**—The purposes of this course are threefold: to create an interest in the legitimate drama and an appreciation for it, particularly as it is found in the little theatres of today; to acquire a knowledge of the processes used in producing such dramas; and to gain some practical experience in producing plays in class and for the public. This course may be entered at the beginning of either semester. *Two hours credit each semester.*

SPEECH, FRENCH

313. PRACTICAL PUBLIC SPEAKING—A practical course in the effective construction and delivery of business talks. The student is frequently required to deliver short talks before the class. This course is of especial interest to professional and business men. Repeated second semester.

Two hours credit.

FRENCH

101-102. ELEMENTARY FRENCH—Fundamental principles of grammar and extensive reading in simplified texts, for the purpose of preparing the student to read at sight simple French of minimum vocabulary content.

Three hours credit each semester.

203. INTERMEDIATE FRENCH—Modern short stories and plays are read and discussed in French. Grammar is reviewed in connection with an elementary composition book. Prerequisite, French 102 or two years of high school French.

Three hours credit.

204. INTERMEDIATE FRENCH—A continuation of French 203. The texts in this course are chosen with a view to their value as an introduction to the study of French literature and civilization. Prerequisite, French 203 or three years of high school French.

Three hours credit.

The prerequisite of all courses in the 300 group is French 204, four years of high school French, or the ability to read French for literary appreciation.

305. FRENCH LITERATURE OF THE RENAISSANCE—A course dealing with the various tendencies of French thought during the sixteenth century, but devoted principally to a study of Rabelais, Ronsard, and Montaigne. (1938-39)

Three hours credit.

306. THE SEVENTEENTH CENTURY—A survey of the great writers of the Golden Age of French literature, with particular stress on the works of La Fontaine, and those of the prose writers Bossuet, Pascal, and La Bruyère. (1938-39)

Three hours credit.

307. MODERN FRENCH DRAMA—A study of representative works of the two Dumas, Hugo, Musset, Vigny, Brieux, Rostand, and others. (1939-40)

Three hours credit.

308. CLASSICAL FRENCH DRAMA—Various masterpieces of Corneille, Racine, and Molière are studied with reference to their value as poetry and to their significance as an expression of contemporary thought. (1939-40)

Two hours credit.

All courses in the 400 group are devoted to the study of French linguistics, and are especially designed for those who are majoring in French or who are preparing to teach French in secondary schools. Admission by consent of instructor.

407. CONVERSATIONAL FRENCH—The object of this course is to give the student facility in expressing himself in simple idiomatic language. (1939-40)

Two hours credit.

408. ADVANCED FRENCH GRAMMAR—A study of ordinary grammatical usage in those classics which are usually read in high school. Texts from the works of Mérimée, Daudet, and Maupassant are subjected to minute grammatical analysis, with special attention to the use of past descriptive and past absolute tenses. (1939-40)

Two hours credit.

409. COURS DE STYLE—Exercises in advanced composition in connection with the study of standard French versions of English masterpieces. The basis of this course is Baudelaire's translation of Poe's Prose Tales. (1938-39)

Two hours credit.

410. HISTORY OF THE FRENCH LANGUAGE—A study of the growth of Modern French from Vulgar Latin to the popular language of the twentieth century. Particular attention is paid to English borrowings from the Low Norman dialect. The text used in this course is Bourciez *Phonétique française* (Edition Klincksieck, Paris). (1938-39)

Two hours credit.

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Note: The following additional courses will be offered in 1940-1941 and subsequently:

- 309 The Novel in France
- 310 Contemporary French Literature
- 311 Eighteenth Century Literature
- 312 Modern French Poetry

GEOLOGY

202, 203. HISTORICAL GEOLOGY AND PHYSIOGRAPHY—One lecture and two hours laboratory. Field study includes trips to points of interest and work with geologic maps. Physiographic cycles and the relation of life to them will be studied. The appearance of organisms in time. Type specimens and fossils as time indicators. Field collecting. Fee \$3.00 each semester. (1938-39)
Two hours credit each semester.

GERMAN

101-102. ELEMENTARY GERMAN—Introduction to the fundamental principles of grammar, drill in the declensional forms of nouns and adjectives together with elementary conversation and the reading of easy prose and poetry.
Three hours credit each semester.

203. INTERMEDIATE GERMAN—Elementary composition based on a review of the essentials of grammar. The reading material for this course is chosen with the double purpose of furnishing a basis for the further study of German literature and providing those who wish to do technical reading with a working knowledge of the modern language. Prerequisite, German 101-102 or two years of German in high school.
Three hours credit.

204. INTERMEDIATE GERMAN—A continuation of German 203. Reading of texts of increasing difficulty accompanied by conversation and exercises in composition. Prerequisite, German 203.
Three hours credit.

305, 306. SCIENTIFIC AND CONVERSATIONAL GERMAN—Composition and conversation, including teaching of elementary German. Prerequisite, German 204.
Three hours credit each semester.

HISTORY

101. MODERN EUROPEAN HISTORY, 1500-1815—A general survey of the history of Western Europe covering the period from Luther and Henry VIII to Napoleon. The purpose of this course is to give the student a comprehensive understanding of the many phases of modern civilization. Designed for freshmen and sophomores.
Three hours credit.

102. MODERN EUROPEAN HISTORY, 1815 TO THE PRESENT—A survey of the history of Europe, emphasizing its relations to the rest of the world during the nineteenth and twentieth centuries. Students who elect to take only one semester of history are advised to take this course. Designed for freshmen and sophomores.
Three hours credit.

105, 106. HISTORY OF EUROPE SINCE THE FALL OF ROME—A survey of European civilization from the fall of Rome in 476 through the Middle Ages, the Renaissance and the Modern Era to the present day.
Three hours credit each semester.

201. HISTORY OF THE UNITED STATES TO 1850—A study of the general political, social, and economic developments of the United States from the beginning of our history to the middle of the nineteenth century. Designed for sophomores.
Three hours credit.

HISTORY, ITALIAN

202. HISTORY OF THE UNITED STATES SINCE 1850—A continuation of History 201, giving special emphasis to the causes of the Civil War and the period which followed. *Three hours credit.*

211-212. HISTORY OF THE BRITISH PEOPLE—From the earliest times to the present. Special emphasis is given to the social, industrial, and commercial development of England, the growth of parliament, the contest for religious freedom, the literary and intellectual development of the British people. Prerequisites, History 101 and 102 or 105, 106.

Three hours credit each semester.

302. HISTORY OF RUSSIA—A study of the development of the Russian people and their political, economic, and social institutions from earliest times to the present. Prerequisite, History 105, 106. (1938-39)

Three hours credit.

303. FRENCH REVOLUTION—A study of the French Revolution and Napoleonic era from 1789 to 1815. Prerequisite, History 105, 106. (1939-40)

Three hours credit.

307. HISTORY OF EDUCATION—For description of this course see Education 307.

311. HISTORY OF GREECE—Political and cultural growth of Greece. Prerequisites, History 101 and 102 or 105, 106. *Three hours credit.*

312. HISTORY OF ROME—The first republic, the growth of the city of Rome and the Mediterranean states, the growth of the early imperial system, the rule of the Caesars, to the decline of the empire. Prerequisites, History 101 and 102 or 105, 106. *Three hours credit.*

325. WORLD HISTORY SINCE 1914—Developments in the political, economic, and social life of all major countries of the world since the outbreak of the World War. Recent trends in Russia, Italy, Germany, the Far East, and significant world problems will be presented. Prerequisite, History 101 and 102, or 105, 106. *Three hours credit.*

ITALIAN

101-102. ELEMENTARY ITALIAN—The fundamentals of grammar are taught by constant drill in syntax and inflectional forms. Spoken Italian with special attention to correct pronunciation and diction is studied in connection with the reading of simple modern texts.

Three hours credit each semester.

203. INTERMEDIATE ITALIAN—Review of grammar in connection with elementary composition. Modern texts are read and used as a basis for conversation in Italian. Prerequisite, Italian 102, or two years of high school Italian. *Three hours credit.*

204. INTERMEDIATE ITALIAN—A continuation of Italian 203. In this course the stories and plays are studied as literature, at the same time they serve as material for the study of the language.

Three hours credit.

305, 306. CONVERSATIONAL ITALIAN—A course in composition and conversation based on selected examples of modern Italian literature. Prerequisite, Italian 204. *Three hours credit each semester.*

307-308. ITALIAN CULTURE—This course is devoted to the study of Italian culture and institutions together with a summary review of the history of Italian literature. Prerequisite, Italian 204.

Three hours credit each semester.

YOUNGSTOWN COLLEGE

LATIN

Prerequisite for the courses listed below, three years of high school Latin.

113. CICERO—De Senectute and De Amicitia. Study of Latin prose, translation, syntax, composition. *Three hours credit.*
114. LIVY—Selections. Tacitus. Translation, composition. *Three hours credit.*
211. HORACE—Odes, satires, epistles. Study of Latin prosody, ideals, and customs. Translation, syntax, composition. *Three hours credit.*
212. PLAUTUS; TERENCE—Selected plays. Translation, reports. *Three hours credit.*

LAW

Objectives and Methods of Instruction

The School of Law has the following objectives:

- (1) Familiarizing the student with the history of our laws and institutions.
- (2) Studying of various laws and the reasons for their existence.
- (3) Applying the rules and principles to actual cases.

Development of the ability of legal reasoning is emphasized.

The method of instruction is the case method. Selected cases that have actually been decided are used as texts. Thus, from an analytical study of each case the student determines the operative facts, and the rule of law upon which the decision has been based, and finds the governing principles of law by the inductive method of reasoning.

By such process the student learns to discriminate between the material and the immaterial; to weigh and estimate relative legal values; to discover fallacies in reasoning and to express his own conclusions clearly and concisely.

Requirements for Bar Examination

All persons registering for the Bar Examination must have completed at least two years of work in liberal arts.

Every law student upon entering the School of Law should ask at the office for instruction sheet regarding admission to the bar. Students living outside of the state of Ohio must establish a residence in the state for one year before they are permitted to take the Bar Examination. Other important information is included on the instruction sheet and each student should secure one of these sheets and study it carefully upon entering Law School to be sure that he or she has fulfilled all requirements.

LAW

Schedule of Classes 1938-1939 (Classes meet Tuesday and Friday evenings)

FALL QUARTER

7:00—8:30
Common Law Pleading
Real Property I
Equity I
Municipal Corporations

8:30—10:00
Contracts
Torts
Private Corporations
Quasi-Contracts

WINTER QUARTER

7:00—8:30
Agency
Real Property II
Equity II
Partnership

8:30—10:00
Contracts
Negotiable Instruments
Evidence I
Suretyship

SPRING QUARTER

7:00—8:30
Torts
Real Property III
Equity III
Pleading and Practice

8:30—10:00
Contracts
Sales
Evidence II
Bankruptcy

SUMMER QUARTER

7:00—8:30
Torts
Bailments and Carriers
Trusts
Pleading and Practice

8:30—10:00
Personal Property
Criminal Law
Insurance
Domestic Relations

Lectures

No examination will be held in the lectures, and they will not count toward a degree, but attendance is required of all students.

1. Legal Ethics.
2. Probate Practice and Procedure.
3. Taxation Practice and Procedure.
4. Brief Making and Preparation of Cases.
5. Federal Jurisdiction and Procedure.
6. Jurisprudence.
7. Drafting and Construction of Statutes.

COURSES

AGENCY—Distinction between law of principal and agent, and law of master and servant; formation of relation of principal and agent: (1) by agreement, (2) by ratification, (3) by estoppel and (4) by necessity; termination of the relation; (1) by act of the parties and (2) by operation of law; irrevocable agencies; obligations and duties of agent; torts and frauds of agents; admission and notice; contracts made by agent on behalf of his principal, and torts between agent and third parties. *Two hours credit.*

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BAILMENTS AND CARRIERS—Different forms of bailments; rights and liabilities of bailor and bailee to each other and to third persons; common carriers; federal and state regulation and control of carriers and the latest federal and state Statutes. *Two hours credit.*

BANKRUPTCY—A study of the national bankruptcy act and its construction; who may be a bankrupt; who may be a petitioning creditor; acts of bankruptcy; provable claims; exemption and discharge. *Two hours credit.*

COMMON LAW PLEADING—Venue, appearance, forms of actions, parties, pleading trial, motions and judgments as they were known and understood at common law. *Two hours credit.*

CONFLICT OF LAW—The legal principles governing the application of laws of different jurisdictions to cause of action arising in one jurisdiction and enforced in another. Judgments; obligations; personal rights; property rights; and a general outline of the subject. (1939-40) *Two hours credit.*

CONSTITUTIONAL LAW—The increasing importance of sound and wide learning in the law, the multiplication of law books, and the infinite number of reported cases, have combined to make more needful than ever before a thorough knowledge of legal principles. A capable lawyer knows not only what is the law generally, but also its philosophy and history. We aim measurably to enable the student to attain this end by offering a critical study of the following: (1) the history of the law; (2) the juristic basis of the leading principles of the law; (3) the form in which these principles first appeared and the reasons for their appearance; (4) the changes and modifications they have undergone; (5) the causes of their death or survival; (6) the constitution of England and of the United States. (1939-40) *Four hours credit.*

CONTRACTS—Places of contract in our law; essentials of a valid contract; void, voidable, and unenforceable contract; offer and acceptance; Statute of frauds; consideration; capacity to contract; mistake, misrepresentation, fraud, duress, and undue influence; legality of object; contracts for benefit of third person; assignment in the law of contract; impossibility as affecting contracts; breach of contract and its legal effect; and discharge of contract. *Six hours credit.*

CRIMINAL LAW—Sources of criminal law; the mental element in crime; locality in crime; parties in crime; criminal liability, generally and in special cases; crimes at common law; crimes statutory; and criminal procedure.

CRIMINAL PROCEDURE—Arrest, bail, indictment and proceedings thereon, pleas, trials and matters incident thereto, and error proceedings. *Two hours credit.*

DOMESTIC RELATIONS—Statutes and cases, embracing the law of marriage, divorce and alimony; property and contract rights of husband and wife; antenuptial and postnuptial agreements; actions by one spouse against the other; parent and child; guardian and ward; rights and liabilities of infants; and care, custody and control of infants. *Two hours credit.*

EQUITY—This course consists of two parts. Equity I embraces the origin, history, general principles and scope of equity jurisprudence. Equity II deals with maxims and special heads of equity jurisprudence, such as trusts, recessions, reformation and cancellation; specific performance; injunction and receivers; estoppel; election; subrogations, mortgages and decedents' estates. The conclusion of this course consists of a study of equitable remedies. *Six hours credit.*

EVIDENCE—The law of evidence contains clear and ascertainable reasons for the admission or exclusion of proffered evidence, and we aim to show these reasons in connection with the subject in such a manner as to

LAW

make the course both logical and profitable. Once the reason for a rule is understood, its memory and application are comparatively easy. In addition to the usual course, we give careful attention to the offer of evidence; the object to evidence; the ruling of evidence; exceptions to such rulings, and the building of a record for error or appeal proceedings.

Four hours credit.

INSURANCE—Fire, life, and accident insurance, with respect to: insurable interests; concealment; misrepresentation; warranties; other causes of invalidity of contract; amount of recovery; subrogation; conditions; waiver; estoppel, election and powers of agents; assignees and beneficiaries. (1939-40)

Two hours credit.

MORTGAGES—Forms, debts, foreclosures, redemption, sales, writ of restitution. (1939-40)

Two hours credit.

MUNICIPAL CORPORATIONS—Creation, control, alteration, and dissolution of municipal corporations; their charters, proceedings, officers and agents; powers of agents; assignees and beneficiaries.

Two hours credit.

NEGOTIABLE INSTRUMENTS—Drawing forms of negotiable papers, forms and formal requisite; acceptance, transfer, and extinguishment; obligation of parties; effect of delay and diligence; bills of exchange; notice and protest; forgery and alteration. Special attention is given to the uniform negotiable instrument of law. Many Ohio decisions are cited and commented upon.

Two hours credit.

PARTNERSHIP—The creation of partnership; the purpose for which a partnership may be formed; the advantages and disadvantages of a partnership; the incidents of partnership; the rights and duties of partners toward each other; partnership property and the interest of a partner therein; of actions by and against the firm; dissolution of partnership assets; final accounting; limited partnerships and partnership associations.

Two hours credit.

PERSONAL PROPERTY—Distinction between real and personal property, gift, bailment, pledge, fixtures.

Two hours credit.

PLEADING AND PRACTICE—This is a thorough and extensive course and prepares the student to state accurately and concisely a cause of action or defense. Moreover, the course affords a general review of most of the substantive law preceding. Particular attention is given to forms of action and the declaration at common law. This is followed by a history of procedure and a careful study of the codes as exemplified by the statutes of New York and Ohio. These codes are illustrated and clarified by the study of many cases. We endeavor to make the course sound in theory and sufficiently practical to enable one leaving us to feel at home in the office or in the court room. To this end considerable attention is directed to the conduct of trials from the issuing of summons to the ending of a case in an appellate court.

Four hours credit.

PRIVATE CORPORATIONS—History and general principles; creation, organization, and citizenship; defacto corporations, the charter, franchise and privileges, powers, doctrine of ultra vires, torts and crimes; capital stock, stock subscriptions, rights of membership, voting trusts, transfer of shares, management; liability of stockholders; insolvency and dissolution.

Two hours credit.

QUASI CONTRACTS—Nature of obligation; restitution at law for benefits conferred under mistake of fact or mistake of law; benefits conferred in misreliance upon contract invalid, illegal, unenforceable, or impossible of performance; benefits conferred through intervention in another's affairs; benefits conferred under constraint; restitution as alternative remedy for breach of contract and for tort.

Two hours credit.

YOUNGSTOWN COLLEGE

REAL PROPERTY I—Introduction to the law of real property; the feudal system, theory of estates, non-possessory interests in land, joint ownership, disseisin, history of uses. Rights incidental to possession, including water rights in the land of another, including profits, easements, and licenses.

Two hours credit.

REAL PROPERTY II—Covenants running with the land, including enforcement at law or in equity, and between landlord and tenant and fee owners; rents; waste; public rights in streams and highways.

Two hours credit.

REAL PROPERTY III—Future Interests in Land—Future Interests; conditions, reversions, remainders and conditional limitations; Rule in Shelley's Case; future interests in personality; powers, rules against perpetuities.

Two hours credit.

SALES—Subject matter of sale, executory and executed sales, stoppage in transit, fraud, warranties and remedies for breach of warranties, statute of frauds.

Two hours credit.

SURETYSHIP—Guaranty and suretyship defined and distinguished; application of the Statute of Frauds; commercial guarantee bonds to secure private obligations; bonds of public officers; subrogation, contribution, and indemnity; surety defenses.

Two hours credit.

TORTS—This course calls the attention of the student sharply to the "Tripartite division of torts," to-wit (1) the damage element; (2) the causation element; and (3) the excuse element (justification, privilege). It is submitted that this classification is the most natural of any that has been made. The whole field of tort is studied in this manner.

Four hours credit.

TRUSTS—Lectures and Scott's Cases, embracing voluntary trusts, language and formalities necessary to the creation of a trust, resulting trusts, oral trusts, constructive trusts, executed and executory interests of trustees. (1939-40)

Two hours credit.

WILLS—Testamentary capacity; dispositions in contemplation of death; execution, revocation, republication, and revival of wills; descent; liability of heirs for debt; probate and administration; title and powers of executors and administrators; payment of debts, legacies and distributive shares. (1939-40)

Two hours credit.

NOTE—Subjects taught, hours of instruction, tuition charges, case books and degrees and all matters of a similar character are subject to change any time by the dean and president.

MATHEMATICS

A major in the field of mathematics must include, in addition to the fundamental work of the first two years, at least three semester courses offered only to juniors and seniors. These advanced courses are selected from year to year to meet the needs of the class, and to give as great a variety for choice as possible.

Chemistry, physics, and pre-engineering students should take the work of the department at least through the calculus. Other students may elect individual courses or sequences for which they are prepared. The work of the freshman year is open to all who satisfy the college entrance requirements in mathematics.

MATHEMATICS

101. COLLEGE ALGEBRA—The fundamentals of algebra rapidly reviewed, after which advanced topics, such as progression, permutations and combinations, theory of equations, complex numbers, and determinants are studied. *Three hours credit.*

111-112. COLLEGE ALGEBRA—This course is equivalent to course 101, except that more time is allowed for review of the fundamentals of algebra, and some additional ground is covered. *Two hours credit each semester.*

114. ANALYTIC GEOMETRY—This course is largely a study of equations and their graphs. Curve fitting by means of empirical equations is also included. Prerequisite, Mathematics 103. *Three hours credit.*

103. TRIGONOMETRY — This course includes the study of goniometry, solution of triangles, trigonometric equations, construction of tables, and if time permits, a few elements of spherical trigonometry. Should follow or be accompanied by Mathematics 111-112. *Three hours credit.*

209-210. DIFFERENTIAL AND INTEGRAL CALCULUS — A thorough course in the essentials of each phase of the calculus, including maxima and minima, rates, curve tracing, the definite integral, areas, volumes, double integrals, etc., with applications to physical and mechanical problems. Prerequisite, Mathematics 114. *Five hours credit each semester.*

218, 219, 220. DIFFERENTIAL AND INTEGRAL CALCULUS —This course is the equivalent of course 209-210, but is spread over three semesters instead of two. Prerequisite, Mathematics 114. *Three hours credit each semester.*

311. THEORY OF EQUATIONS—Solution of cubic and quartic equations, Newton's method, symmetric functions, determinants, resultants, discriminants. Prerequisite, Mathematics 209. (1940-41) *Two or three hours credit.*

315. DIFFERENTIAL EQUATIONS—Methods of solving ordinary differential equations. Prerequisite, Mathematics 210. (1938-39) *Three hours credit.*

316. ADVANCED DIFFERENTIAL EQUATIONS—Additional methods, including those pertaining to partial differential equations, equations of higher order, and systems of equations. Prerequisite, Mathematics 315. (1938-39) *Two or three hours credit.*

APPLIED MECHANICS—See Physics 324, 325, 326.

330. COLLEGE GEOMETRY—This course makes use of the same tools and technique as does plane geometry, leading to higher relations between the elements of the triangle and of other plane figures. This course has been made a specific requirement for a teaching major or minor in mathematics, by the State Board of Education. Prerequisite, junior standing. (1939-40) *Three hours credit.*

432. HISTORY OF MATHEMATICS—A study of the development of the fundamental ideas of mathematics through the calculus, from antiquity down to the present. Prerequisite, Mathematics 209 or consent of instructor. (1939-40) *Three hours credit.*

YOUNGSTOWN COLLEGE

MUSIC

The School of Music of Youngstown College was organized to provide a thorough course of instruction in all branches of music, both theoretical and applied. To this end an eminent faculty has been assembled, the courses carefully correlated, and the work in music articulated with the other subjects in the college curriculum. The studios of the School of Music are located on the fourth floor of the college building, are well lighted, attractive, and well suited to this work.

Classes in instrumental music under the guidance of the college faculty offer beginners an excellent opportunity to test their potential talents. Enrollment in these classes is limited.

Examinations in all branches of applied music are held at the end of each semester before a committee of the faculty. This examination and the recommendation of the instructor shall determine promotion.

A complete course for the training of band masters and professional players on the band instruments is offered. The course consists of the study of a major solo instrument, tone production and technique of all band instruments, theoretical subjects, arranging, and conducting. Advanced students have the advantage of conducting a band under supervision.

Regular students must fulfill the following entrance requirements:

Piano Students must be prepared to play before a committee of the faculty a selection from the following compositions or others of equal grade in a manner satisfactory to the faculty.

- (a) Two studies from Czerny, Op. 299.
- (b) One two-part invention or a dance from Bach.
- (c) One of the easier compositions from Chopin.
- (d) One sonata movement from Haydn, Mozart, or the easier Beethoven, and a concert number of corresponding difficulty.

In addition to this, a student should be able to read at sight a medium grade composition, play all of the major scales and major arpeggios, and write major and minor scales with correct signatures.

Violin Students must know six positions, be able to read at sight a piece selected by the committee, and be able to play satisfactorily the following:

- (a) A study of Mazas (Special studies.)
- (b) A study by Kreutzer to the grade of No. 32.
- (c) A movement from a sonata by Mozart or a concerto by Vivaldi.

Organ Students must be able to play on the piano the following:

- (a) Any scale or arpeggio.
- (b) A Bach invention.
- (c) A prelude and fugue from Bach's "Well Tempered Clavichord."
- (d) A sonata by Mozart, or one of the easier Beethoven sonatas.
- (e) A composition by Mendelssohn, Grieg, Schubert, Schumann, etc.

MUSIC

Wind Instrument students must have had at least one year's experience in band or orchestra ensemble and be able to play any first-grade song. They must also be able to play elementary studies by Arban and Gati for brass instruments and studies of similar difficulty for wood-wind.

Cello Students must be able to read at sight a piece selected by the committee and be able to play satisfactorily:

- (a) Technical exercises from Schroder, Book I.
- (b) All major scales two octaves.

In evaluating courses in applied music for college credit the following basis shall be used:

Piano, Violin, or Band Instruments—One hour of college credit for each lesson per week, accompanied by 1½ hours of practice daily (not to exceed 2 hours per semester).

Organ or Voice—One hour of college credit for each lesson per week accompanied by 1 hour of practice daily (not to exceed 2 hours per semester).

To be coordinated into a major, such credits must be accompanied by studies in musical theory, as outlined in the catalog, or by courses accepted in lieu thereof by the regularly constituted authorities.

101, 102. SIGHT SINGING AND EAR TRAINING—Two recitations each week. Required of all students majoring or minoring in music, and the first theoretical course to be offered by students of applied music who desire credit for same. A study of the fundamentals of music in respect to notation, scale formation, and derivation; singing at sight in one and two parts, major and minor modes, G and F clef; dictation in one and two parts, major and minor modes, G and F clef.

One hour credit each semester.

103-104. ELEMENTARY HARMONY—Two recitations each week. A study of the fundamental triads, dominant seventh, and secondary seventh chords in major and minor modes; harmonizing given and original melodies; analysis.

Two hours credit each semester.

105, 106. APPRECIATION OF MUSIC—Two recitations each week. A discussion of the problems of listening to music, designed primarily for non-professional listener. Lectures, outside readings, study of phonographic records, reports.

Two hours credit each semester.

201-202. ADVANCED HARMONY—Three recitations each week. A continuation of Harmony 103-104. A study of chordal alterations, use of chords of the major mode, in the minor mode, and vice versa, modulation and transition, pedal point. Prerequisites, Music 101, 102, 103-104.

Three hours credit each semester

203, 204. HISTORY OF MUSIC—Two recitations each week. A study of the beginnings of music from pre-historic times down to the beginning of the sixteenth century.

Two hours credit each semester.

205. MUSIC IN THE PRIMARY GRADES—General methods of teaching public school music in the first three grades. Prerequisite, Music 101, 102.

One and one-half hours credit.

206. MUSIC IN THE INTERMEDIATE GRADES—General methods of teaching public school music in the fourth, fifth, and sixth grades. Prerequisite, Music 205.

One and one-half hours credit.

301, 302. STRICT COUNTERPOINT—Two recitations each week. First, second, third, fourth, and fifth species of academic counterpoint in two, three, and four parts; combined counterpoint. Prerequisite,

Three hours credit each semester.

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303, 304. HISTORY OF MUSIC—Three recitations each week. A continuation of 203, 204. The development from the beginning of the sixteenth century down to the present day.

Three hours credit each semester.

305. MUSIC IN THE FIRST SIX GRADES—Rote songs, rhythmic and tonal problems, analysis of student problems in successive years, using for demonstration children presenting particular difficulties. Prerequisites, Music 205, 206 and Education 301.

Two hours credit.

401-402. MUSICAL FORM—A study of musical form beginning with the phrase and continuing through the song form to the rondo forms. Analysis of master works illustrative of the forms studied.

Three hours credit each semester.

403-404. TEACHING OF MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL—Classification, problem, materials, methods, organization, and management. Prerequisite, Music 205, 206.

Two hours credit each semester.

Students regularly enrolled in the musical ensembles of the college, i.e., Men's Glee Club, Women's Glee Club, Orchestra, and Chapel Choir, and who, by regular attendance and earnest endeavor merit it, may receive credit not to exceed one-half hour per semester, for two hours rehearsal per week, but the credit must be definitely for membership in one certain organization.

Tuition Rates—Music Faculty Semester of Eighteen Weeks

	One Half-hour Lesson per week	Two Lessons per week
Henry V. Stearns (piano and organ)-----	\$45.00	\$90.00
George A. Bretz (piano)-----	36.00	72.00
Kathryn Guarnieri (voice)-----	45.00	90.00
Alvin Myerovich (violin)-----	36.00	72.00
Jacob Hubert (violoncello)-----	27.00	54.00
Harry Joyce (wood-wind instruments)-----	27.00	54.00
Class instruction in piano and violin-----	\$13.50	

ORIENTATION

This course aims to help the new college student to adjust himself quickly to college life. The problems studied include, how to study in college; how to select college courses; how to select a life work. Lectures, library readings, and quizzes. Required of all freshman students.

One hour credit.

PHILOSOPHY

203. INTRODUCTION TO PHILOSOPHY—A lecture and discussion course designed to introduce the student to the methods, problems and fundamental conceptions of philosophy, and to the significance of the higher values of life—moral, aesthetic, and religious.

Three hours credit.

205. LOGIC—A study of the nature of thought, and of true and false methods of thinking.

Two hours credit.

207, 208. ETHICS OF JESUS—A study of the records of Matthew, Mark, and Luke, with the object of discovering Jesus' conception of life, and the ethical principles revealed in both his teaching and actions. The purpose of the course is to furnish a basis for the student's development of his own philosophy of life.

Three hours credit each semester.

PHILOSOPHY, PHYSICAL EDUCATION, PHYSICS

301. HISTORY OF PHILOSOPHY—The development of philosophic thought from the time of the early Greeks to the end of the Middle Ages. *Three hours credit.*

302. HISTORY OF PHILOSOPHY—Continuation of Philosophy 301 from the end of the Middle Ages to the present day. Prerequisite, Philosophy 301. *Three hours credit.*

305, 306. ETHICS—A study of human nature, of character and conduct. A survey of the evolution of ideas of right and wrong; an introductory study of the principal types of ethical theory, and an evaluation of them. Ethical principles are discussed in relation to personal, political, economic, and international problems. (1939-40)
Three hours credit each semester.

307, 308. CIVILIZATION AND ETHICS—A survey of the ethical thought of the centuries from the time of the early Greeks to the present day, and as related to the life of the times in each era. (1939-40)
Three hours credit each semester.

PHYSICAL EDUCATION

101, 102. PHYSICAL EDUCATION AND HYGIENE (Men)—
Three hours each week. The course includes hygiene and general body-building exercises, gymnastic and athletic games, and competitive sports, with advanced elective activities for the physically superior groups. Required of freshmen. *One hour credit each semester.*

103, 104. PHYSICAL EDUCATION AND HYGIENE (Women)
—The course includes the following sports: soccer, basketball, tennis, golf, and volley ball. Also folk-dancing, natural dancing and rhythmic gymnastics, personal hygiene. Required of freshmen. *One hour credit each semester.*

205, 206. ADVANCED PHYSICAL EDUCATION (Men)—
Three hours each week. A continuation of courses 101, 102. Required of sophomores. *One hour credit each semester.*

207, 208. ADVANCED PHYSICAL EDUCATION (Women)—
Two hours each week. The student is given an opportunity to develop skill in her favorite sports. Swimming, golf, tennis, and natural dancing are offered. Required of sophomores. *One hour credit each semester.*

PHYSICS AND MECHANICAL ENGINEERING

Under Curricula in this catalog will be found courses of study leading to the degrees of Bachelor of Arts with physics as a major and Bachelor of Science in Mechanical Engineering. As the work in Mechanical Engineering has just been introduced, the courses below include only those which it is expected will be offered during the next two years. As the first class progresses, additional courses will be introduced as indicated in the course of study.

Non-science students may take the General Physics course, Surveying, and any advanced courses for which they have the prerequisites.

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115. SURVEY OF ENGINEERING—Lectures, readings, and reports. The student is helped to see the profession of engineering in its entirety, so that he may better select the phase in which he is most interested and best prepared. Required of all freshman engineering students.

One hour credit.

151. ELEMENTARY PHOTOGRAPHY—This course is planned for the average camera enthusiast. It will be developed as a science on a scientific basis. The nature of light, lenses, the elementary chemistry of photography, etc., will be included. Demonstration and practice in picture taking for various purposes and effects. Miniature camera work will be compared with other types. Laboratory work will include developing, printing, and enlarging. Various grades of films and papers will be used. Color work will also be included.

Three hours credit.

201-202. GENERAL COLLEGE PHYSICS—Lecture and recitation, three hours, and two two-hour laboratory periods each week. A general course in the fundamentals of physical science. The first semester includes the study of mechanics, heat, and sound; the second semester is devoted to the study of electricity, magnetism, and light. Prerequisite, sophomore standing. Trigonometry highly desirable.

Five hours credit each semester.

207. FOUNDRY PRACTICE—A laboratory course in forging, introducing the student to methods and nomenclature of the foundry. (1938-39)

Three hours credit.

211-212. GENERAL COLLEGE PHYSICS—Lecture three hours, laboratory three hours each week. Same as 201-202 except somewhat abridged.

Four hours credit each semester.

213. SURVEYING—Two recitations and fifteen hours of field work per week for nine weeks in summer term. The fundamental principles of plane and topographic surveying. Prerequisite, Mathematics 103.

Four hours credit.

221. SHOP PROCESSES—Six hours laboratory each week. Study of machines and machine tools, as well as processes such as planing, boring, turning, etc.

Three hours credit.

303. ELECTRICITY AND MAGNETISM—A critical study of the physical laws underlying electrical theory. Prerequisites, Physics 202 and Mathematics 210. (1938-39)

Three hours credit.

307. HEAT AND RADIATION—Laws of heat flow by convection, conduction, and radiation; kinetic theory of gasses, and an approach to the thermodynamic method. Prerequisites, Physics 201 and Mathematics 209.

Three hours credit.

308. THERMODYNAMICS—Heat engines, the Carnot cycle, entropy, reversible and irreversible cycles, and applications to certain problems. Prerequisites, Physics 201-202 and Mathematics 209-210. (1939-40)

Three hours credit.

324. APPLIED MECHANICS—Statics and Kinematics. Force systems, center of gravity, laws of motion of a particle. Prerequisite, Mathematics 210 and Physics 201.

Three hours credit.

325. APPLIED MECHANICS—Dynamics. Continuation of course 324 to include rotation of solid bodies, moment of inertia, and vibrating systems.

Three hours credit.

326. APPLIED MECHANICS—Strength of Materials. The physical properties of materials, stresses, deflection of beams, and torsion of rods. Prerequisite, Mechanical Engineering 324. (1939-40)

Three hours credit.

POLITICAL SCIENCE, PSYCHOLOGY

327. FLUID MECHANICS — Hydrostatics and hydrodynamics.
Three hours credit.

328. FLUID MECHANICS LABORATORY — Measurements in flow, viscosity, etc., in fluids. Mechanical Engineering 317 must be taken before or concurrently with this course. (1939-40) *Two hours credit.*

404. READINGS IN MODERN PHYSICS — Individual study carried on by senior majors in physics, with the consent of the head of the department. Written and oral reports are made periodically.
Two or three hours credit.

POLITICAL SCIENCE

101. INTRODUCTION TO POLITICAL SCIENCE—A study of the principles, forms of governments, types of constitutions, and political institutions in the United States and abroad. The regulation of labor, utilities, industry, and pressure groups will be considered. Reforms suggested in civil service, voting, reorganization of departments, and others will be studied in a general survey of governmental functions and problems—national, state, and local.
Three hours credit.

102. AMERICAN GOVERNMENT—A study of the principles and problems of government in general with suggested reforms in the functioning of American government. Current problems such as government reorganization, civil service reform, and the regulation of industry will be considered.
Three hours credit.

307. MUNICIPAL GOVERNMENT AND ADMINISTRATION —A study of the principles and plans of city government in the United States. Supplemented by occasional lectures of local officials concerning municipal problems peculiar to Youngstown. The problems of the modern city—home rule, public utilities, administrative organization, city finance, city planning, public health and recreation, schools, and other vital problems are studied.
Three hours credit.

308. TECHNIQUE IN MUNICIPAL ADMINISTRATION—This course deals with the functional aspect of municipal administration. The major portion of the study deals with the measurement of municipal activities. An intensive study is made of municipal reporting, using municipal reports of the leading cities of the country. A study is also made of municipal budgets. Materials of other cities are used as supplementary work.
Three hours credit.

PSYCHOLOGY

201. GENERAL PSYCHOLOGY—A study of the fundamental principles of human behavior. This includes a brief survey of the field, the relationship of physiological structure to behavior, the study of the nature and development of motives, perception, consciousness and other factors in the integration of personality. Prerequisite to all other courses in the field. Not open to freshmen except those who are taking a two-year Elementary Teaching Course or a Pre-nursing Course.
Three hours credit.

202. PSYCHOLOGY OF EDUCATION—A study of those principles and laws of psychology that form the bases for education and that apply to the problems of the school. Prerequisite, Psychology 201.
Three hours credit.

206. SOCIAL PSYCHOLOGY—A study of psychological principles and methods applied to social problems and factors influencing social life. Prerequisite, Psychology 201. *Three hours credit.*

YOUNGSTOWN COLLEGE

301. APPLIED PSYCHOLOGY — A study of the psychological factors and principles involved in human relationships in marketing, law, advertising, medicine, selling, personnel management, and the like, as found in business, the professions, and industry. Prerequisite, Psychology 201.

Three hours credit.

302. PSYCHOLOGY OF THE ABNORMAL—A study of the causes, nature, and trend of mental maladjustments and injured personality, stressing the value and means of mental hygiene. Prerequisite, Psychology 201.

Three hours credit.

303. PSYCHOLOGY OF RELIGION—Study of the psychological facts and principles affecting religious experiences, sense of sin, conversion, character changes, faith, worship, development of personality, and mental adjustments as a hygiene for dynamic, useful, and happy living. Prerequisite, Psychology 201.

Three hours credit.

305. CHILDHOOD AND ADOLESCENCE—A genetic study of child development from the pre-natal period through adolescence, stressing the characteristic behavior and abilities of each period of development and practical child-training methods. Prerequisite, Psychology 201.

Three hours credit.

307. PSYCHOLOGY OF MARRIAGE AND FAMILY RELATIONS—A practical study of social and psychological factors which contribute to marital success and happiness, including intersex relations, eugenics, mental hygiene, child training, home finance, and community usefulness. Especially recommended for those who have little advanced credit in psychology or sociology. Prerequisites, Psychology 201, Biology 101-102, and junior standing.

Three hours credit.

RUSSIAN

101-102. ELEMENTARY RUSSIAN—The fundamental differences between Russian and English are explained graphically so as to afford a simplified approach to easy scientific texts, and so as to make possible the acquisition of the essential vocabulary of conversation in a minimum of time. (Summer)

Three hours credit each semester.

SECRETARIAL STUDIES

101. TYPEWRITING—Consists of advanced letter writing, legal papers, tabulating, filling in forms, and speed work. Speed of 60 words a minute should be attained.

Three hours credit.

103. BUSINESS LETTER WRITING — This course includes a study of business terms; mechanics and fundamentals of effective letters; psychology of letter writing; practice in writing different types of letters, stock phrases, common errors, and business punctuation.

Three hours credit.

203. OFFICE PRACTICE — Application of theory to practice; consists of typical office problems; dictation, transcription, copy-work, answering of letters, filling in forms, and discussion of office procedure.

Three hours credit.

215. OFFICE MACHINES — A working knowledge of typical machines used in offices; such as, adding and calculating machines, dictaphone, mimeographing, and bookkeeping machines.

Three hours credit.

301. SHORTHAND—Beginning dictation and transcription. This course is planned for students who have completed the shorthand manual and speed study text.

Four hours credit.

302. SHORTHAND—Advanced dictation at 100 to 120 words per minute and transcription at the rate of 30 words per minute.

Four hours credit.

SOCIOLOGY, SPANISH

SOCIOLOGY

103. PRINCIPLES OF SOCIOLOGY — This is the introductory course, prerequisite to other courses in sociology. It deals with the origin, development, structure, and functions of social institutions.

Three hours credit.

104. SOCIAL DISORGANIZATION — A survey of the present methods of dealing with the dependent and defective groups such as the unemployed, the insane, the feeble-minded, the blind.

Three hours credit.

201. CRIME AND PENAL INSTITUTIONS — A study of the nature and causes of crime and criminals, our present methods of apprehending the criminal, and the problems connected with our penal institutions.

Three hours credit.

204. SOCIAL ORIGINS—The origin and development of the basic social institutions. (1939-40)

Three hours credit.

301. HISTORY OF SOCIAL THOUGHT — A course surveying the evolution of social theory, with emphasis upon the various schools of thought of the present time.

Three hours credit.

307. THE FAMILY—For description of this course, see Psychology 307.

308. EDUCATIONAL SOCIOLOGY — For description of this course, see Education 308.

SPANISH

101-102. ELEMENTARY SPANISH—The essentials of Spanish grammar are taught through written and oral exercises and are supplemented with the reading of simple texts.

Three hours credit each semester.

203. INTERMEDIATE SPANISH—Review of grammar with imitative exercises in composition. Reading of selected classics of Spanish and Spanish-American prose narration. Prerequisite, Spanish 102 or two years of Spanish in high school.

Three hours credit.

204. INTERMEDIATE SPANISH—A continuation of Spanish 203. Reading of modern stories and plays with conversational exercises based upon the text.

Three hours credit.

305. SURVEY OF SPANISH LITERATURE TO 1700—An introductory course illustrated with selections from the principal classic writers, especially those of the Golden Age. Conducted partly in Spanish.

Three hours credit.

306. SURVEY OF MODERN SPANISH LITERATURE—May be taken independently of Spanish 305. For both courses the prerequisite is Spanish 204 or its equivalent. The purpose of this course is to acquaint the student with the principal writers of Spain since 1700.

Three hours credit

YOUNGSTOWN COLLEGE

DEGREES CONFERRED, 1937

Bachelor of Arts

Agey, Mary Jane	Youngstown
Andrews, George F.	Youngstown
Balla, William V. P.	Youngstown
Bender, Theodore	Youngstown
Bower, Ethel Marguerite	Youngstown
Brooks, Howard Nelson	Youngstown
Button, Alfred L.	Youngstown
Comstock, Edna	Youngstown
D'Ovidio, Mary Anne	Youngstown
Estulin, Abe Stanley	Youngstown
George, Jessica Beryl	West Middlesex, Pa.
Graneto, Laura Marie	Youngstown
Hanelin, Miriam	Pittsburgh, Pa.
Hart, Lois Kathryn	Youngstown
Hawkins, Erma LaVerne	Canfield
Hill, Margaret Elizabeth	Struthers
Hoover, Dallas A.	Youngstown
Hower, Wayne F.	Warren
Hutzen, Howard Brenner	Youngstown
Jewell, Eleanor Ida	Girard
Johnson, Helen Louise	Youngstown
Kennedy, Harold Joseph	Youngstown
Knox, Carolyn May	Youngstown
Lackey, William	Youngstown
Larocco, Julia Ann	Campbell
Leach, Donald V.	Youngstown
Lucarell, Rocco	Youngstown
Malys, Stanley	Campbell
Mogan, George L.	Youngstown
Moore, Theodore Robert	Youngstown
Muretic, Matthew S.	Campbell
Pfaff, Gertrude	Youngstown
Radcliffe, Maurice William	Cortland
Ray, Robert J.	Youngstown
Riley, Naoma Lea	Girard
Romig, Frederick Calvin	Warren
Sabatino, Constance Celia	Youngstown
Schuller, George	Youngstown
Thomas, Helen Mar	Youngstown
Todd, Henry C.	Columbiana
Tucciarone, Mayme Dorothea	Hubbard
Turley, Alvin George	Girard
Ungar, William H.	Youngstown
Volk, Anne	Youngstown
Walsh, Lucille Marie	Youngstown
Wilhelm, Marian Franz	Youngstown
Wilkison, Rebekah Rose	Youngstown
Williams, Nathaniel Hurt	Youngstown
Wright, Ruth Elisabeth	Lowellville
Zachman, Esther Victoria	Girard

Title of Associate in Business Administration

Barker, Edward H.	Youngstown
Dillon, Ralph I.	Youngstown
Gardner, Ruth P.	Youngstown
Hathaway, Richard J.	Youngstown

REGISTER OF STUDENTS

1937-1938

Freshmen

Acks, William, Struthers
 Agnone, Daniel C., Youngstown
 Allen, Robert, Sharon, Pa.
 Alter, Harry, Youngstown
 Anderson, E. Gerald, Youngstown
 Anderson, Ray L., Youngstown
 Anderson, Robert, Youngstown
 Anzelmo, Donald, Youngstown
 Appel, Frederick, Somerset, Pa.
 Appel, Irving M., Youngstown
 Arkwright, Florence, Youngstown
 Arnott, Robert, McDonald
 Bailey, Perry E., Cortland
 Bair, John T., Youngstown
 Baksa, Ethel M., Youngstown
 Ballinger, Olof M., Youngstown
 Bancroft, William, Youngstown
 Banner, Carl, Youngstown
 Barlett, John, Youngstown
 Barnes, Robert, Youngstown
 Barrett, Marie, Youngstown
 Barth, Rudolph, Youngstown
 Battafarano, Philip A., Youngstown
 Baumgardner, Carl W., Youngstown
 Baun, Charles, Struthers
 Beach, Roy V., Kinsman
 Beike, Walter, Poland
 Bell, Mabel E., Sharon, Pa.
 Bell, Raymond H., Youngstown
 Benchwick, Agnes D., Campbell
 Bender, James, Columbiana
 Bergfors, Arnold J., Columbiana
 Berline, James H., Niles
 Bernard, Evelyn M., Youngstown
 Bernstein, Louis, Youngstown
 Birskovich, William, Niles
 Black, Annie Lucia, Youngstown
 Black, Harold, Youngstown
 Black, Kenneth, Youngstown
 Black, Robert D., Struthers
 Blaemire, John D., Youngstown
 Bletso, Iris, J., Youngstown
 Bloom, Elva, Youngstown
 Blystone, Frank, Youngstown
 Bobosh, George J., Campbell
 Boehm, Susan H., Lowellville
 Bolino, Anthony E., Niles
 Bologna, Frank, Jr., Youngstown
 Bonfert, Gustav, Youngstown
 Booker, Simeon S., Youngstown
 Bopp, Calvin C., Youngstown
 Bossert, Winifred M., Youngstown
 Bowser, William, Youngstown
 Bremer, Jonas S., Youngstown
 Brenner, Donald G., Youngstown
 Bresnahan, William, Struthers
 Brody, Myron, Youngstown
 Brooks, Floren K., Boston, Mass.
 Brown, Betty, Youngstown
 Brown, Darwyn, Youngstown
 Brown, Leo, Youngstown
 Brown, Leonard, Youngstown
 Brown, Rachel, Columbiana
 Brown, William C., Newton Falls
 Bucci, William, Youngstown
 Buckles, Dorothy, Youngstown
 Bugbee, Wendell, Youngstown
 Burford, William F., Farmdale
 Burnett, Roy Orr, Leavittsburg
 Butch, Daniel A., Leetonia
 Button, Richard, Hubbard
 Byerly, Virginia, Canfield
 Cain, Harold, Niles
 Cain, John, Youngstown
 Calpin, Thomas F., Youngstown
 Campbell, George, Youngstown
 Campbell, John P., Fulton, Ky.
 Canale, Anthony J., Youngstown
 Carbin, Sturgis R., Youngstown
 Carbone, Philip, Youngstown
 Carlino, Michael C., Youngstown
 Carroll, Joseph M., Youngstown
 Carver, Charles, Sharon, Pa.
 Cassano, Guido, Youngstown
 Cassidy, Charles, Warren
 Cassidy, Margaret Ann, Warren
 Cazan, Matthew J., Sharon, Pa.
 Cazan, Sylvia M., Sharon, Pa.
 Cervone, George, Youngstown
 Chapin, Robert, Youngstown
 Chapman, Maryann, Youngstown
 Chapman, Wendell S., Warren
 Chirelli, Eleanor, Youngstown
 Chubak, Julius E., Youngstown
 Church, Elizabeth, Youngstown
 Cianciola, Vincent, Youngstown
 Ciminero, Neil J., Niles
 Cleveland, Richard, Youngstown
 Colgan, Eleanor, New Castle, Pa.
 Colla, Nicholas, Youngstown
 Connelly, Edward, Youngstown
 Cooper, Olga E., Girard
 Comek, Laura, Youngstown
 Conley, Edward, Warren
 Conner, Robert, Youngstown
 Conrad, Melvin, Youngstown
 Corletzi, Carl J., Youngstown
 Corrado, Joseph R., Youngstown
 Cossack, John, Youngstown
 Crawford, Thomas W., Youngstown
 Crockett, William, Youngstown
 Cronin, John, Youngstown
 Cubick, Robert, Youngstown
 Culp, Duana, Youngstown
 Cummings, William, Canfield
 Daley, Jack, Mineral Ridge
 Dalleske, Ronald, Youngstown
 Daly, Nathan, Mineral Ridge
 D'Amico, Albert A., Warren
 Daugherty, Dorothy, Youngstown
 Davis, Edward M., Campbell
 Davis, James P., Jr., Youngstown
 Davis, Robert, Youngstown
 De Bucci, Vincent, Youngstown
 Del Fraino, Alfred, Lowellville
 DeLemos, Constance, Youngstown
 DeLong, Anthony, Youngstown
 Denny, Clarence, Palaski, Pa.
 Diano, Anthony, Youngstown
 Diehl, Harry, Youngstown
 Dieter, Ralph, Youngstown
 Donnan, Eleanor, Youngstown
 Donnelly, Eleanor, Youngstown
 Donnet, Victor, Niles
 Dornan, Clair, East Palestine
 Dorrington, James O., Youngstown
 Downs, Julia, Youngstown
 Doyle, Jack, Hubbard

YOUNGSTOWN COLLEGE

Doyle, John, Youngstown
 Draper, Dwight, Youngstown
 Dugan, Elizabeth, Youngstown
 Durig, Melvina, Hubbard
 Durshaw, Joseph, Youngstown
 Dusi, Louise, Sharon, Pa.
 Dustman, William, Warren
 Dworkin, Morris, Youngstown
 Easton, Wilbur, Youngstown
 Edmunds, Mildred, Youngstown
 Edwards, David, Youngstown
 Emery, Kenneth, Youngstown
 Emery, Nicholas, Struthers
 Emrich, John, Youngstown
 Entzi, Andrew, Youngstown
 Erickson, Arthur, Struthers
 Ermert, Eric, Lowellville
 Esterhay, Clara, Youngstown
 Ewanik, Joseph, Canfield
 Fagadore, Thomas, Warren
 Fallon, Stephen G., Warren
 Falls, Henry, New Castle, Pa.
 Farkas, Anthony, Warren
 Farr, George, Youngstown
 Farver, Charles B., New Castle, Pa.
 Faustinoni, Danno, Sharon, Pa.
 Feeley, Jack, Youngstown
 Feldstein, George H., Negley
 Ferenchak, Joseph, Youngstown
 Field, Cyrus, Lisbon
 Findley, Nancy, Poland
 Finkheiner, Paul, Sharon, Pa.
 Finnegan, Elizabeth, Sharon, Pa.
 Finzel, Frederick, Youngstown
 Fisher, Richard, Youngstown
 Fisher, Woodrow, Youngstown
 Fitch, Charles, Youngstown
 Fitch, Janice, Youngstown
 Flint, Frank, Youngstown
 Forbush, Albertus, Youngstown
 Forman, David, Youngstown
 Forrest, David, New Castle, Pa.
 Forsythe, Berwyn, Youngstown
 Fotinos, Angela, Youngstown
 Frankford, Harry A., Youngstown
 Franks, Hayward H., Youngstown
 Franks, Margaret, Cortland
 Fraser, John, Youngstown
 Freed, Albert, Youngstown
 Funkhouser, Maude E., Youngstown
 Fusco, Edward, Niles
 Gainan, Thomas, Youngstown
 Galich, Joseph C., Youngstown
 Garley, Thomas, Warren
 Garwood, David, Youngstown
 Gary, George E., Campbell
 Geary, Jane, Youngstown
 Gerdes, Blaine, Youngstown
 Giardullo, John, Youngstown
 Giber, Helene, Youngstown
 Gierlach, Stanley, New Castle, Pa.
 Gilboy, James, Youngstown
 Gillespie, Eugene, Youngstown
 Gillette, Norman, Warren
 Glass, Sylvia, Youngstown
 Gleason, William, Youngstown
 Goeltz, Ruth, Sharon, Pa.
 Goodridge, Donald, Youngstown
 Goodridge, Howard D., Youngstown
 Grace, Philip, Youngstown
 Granito, Frank, Youngstown
 Grant, Robert, Youngstown
 Gray, Robert, Youngstown
 Griffith, Joseph, Youngstown
 Crist, Frank J., Lowellville
 Grombacher, Bettv, Youngstown
 Gross, Anthony, Farrell, Pa.
 Guest, John B., Youngstown
 Gura, Lawrence, Struthers
 Guy, Naomi V., Lisbon
 Haber, Martin, Youngstown
 Habib, Fred G., Youngstown
 Hammar, George L., Youngstown
 Hannah, Alvin W., Youngstown
 Harr, Miriam, Youngstown
 Harris, Frank, Hubbard
 Harris, Isabelle, Youngstown
 Harris, Kenneth, Hubbard
 Hart, Boyd L., Youngstown
 Haustovich, Paul, Youngstown
 Hayden, Vernon, Niles
 Haynes, John R., Canfield
 Haynes, Lloyd, Youngstown
 Heckman, Charles, Youngstown
 Hedl, Frank, Youngstown
 Heinzman, E. Reil, Girard
 Henthorne, Gwendolyn (Mrs.), Lisbon
 Herman, John, Youngstown
 Heselow, Melvin, Youngstown
 Hetner, Frank J., Youngstown
 Hetrick, Melvin J., Girard
 Hewitt, Sara O., New Castle, Pa.
 Heyman, Bartram, Youngstown
 Hill, Arlene, Struthers
 Hillman, Mary Alice, Youngstown
 Hilton, Jack C., Warren
 Himes, Clair, Youngstown
 Hitter, Martin, Youngstown
 Hobart, Virgil A., Youngstown
 Hoffman, Thomas, Struthers
 Hoffius, Raymond, Sharon, Pa.
 Holmes, E. Gerald, Youngstown
 Holmes, Henry F., Farrell, Pa.
 Horvath, Andrew, Youngstown
 Hoskins, William, Youngstown
 Hossel, Betty, Youngstown
 Hotimsky, Irving, Youngstown
 Hovance, Mary M., Youngstown
 Howe, Clarabel, Youngstown
 Hubler, Sally, Youngstown
 Hudson, Charles, New Castle, Pa.
 Hunter, Janice, Youngstown
 Hunter, Kenneth, Youngstown
 Hurford, William E., Sharon, Pa.
 Hutch, John D., Youngstown
 Hutch, Thomas, Youngstown
 Huth, William, Youngstown
 Inglis, Sarah Anne, Youngstown
 Ingorvate, Harry, Campbell
 Irby, Virginia, Youngstown
 Isaly, Margaret, Youngstown
 Jakubik, John, Campbell
 James, Edwin, Youngstown
 James, N. Ralph, Youngstown
 Jamison, Hunter, Sharon, Pa.
 Jardine, William, Youngstown
 Jennings, Edward, Youngstown
 Jenosevich, Stephen, Girard
 Johnson, Carl G., Youngstown
 Johnson, Dolores, Sharon, Pa.
 Johnson, Earl, Warren
 Johnson, Pauline, Youngstown
 Jones, Albert, Youngstown
 Jones, Betty Mae, Youngstown
 Jones, Edward, Youngstown
 Jones, Myron S., Girard
 Jones, Nelson, Youngstown
 Jones, Norman, Youngstown
 Jones, Paxton L., Youngstown
 Jukes, Albert, Youngstown
 Jurista, Bert M., Youngstown
 Kakos, Steve G., New Castle, Pa.
 Kalver, Ruth, Youngstown
 Kauffman, David, Youngstown

REGISTER OF STUDENTS

Kelly, Mary, Youngstown
 Kempe, Harry, Youngstown
 Kennedy, John K., Youngstown
 Kennedy, Rita, Youngstown
 Kenny, Thomas, Youngstown
 Keslar, Geraldine, Youngstown
 Ketterer, Robert, Salem
 Kinney, Francis G., Youngstown
 Kirchner, Margaret R., Saginaw, Mich.
 Kirkner, William P., Youngstown
 Kirner, Mary, Youngstown
 Kish, Alexander, Campbell
 Kling, Robert G., Youngstown
 Klupik, Pauline, Youngstown
 Knight, Marian, Niles
 Knight, Oliver, Sharon, Pa.
 Knouss, Caroline, Youngstown
 Koch, Joseph E., Youngstown
 Kolley, Clarence, Lockwood
 Krajci, Victor, Youngstown
 Kramer, Jack, Youngstown
 Kriger, Bernard, Youngstown
 Krivan, John, Lowellville
 Kruest, George R., Youngstown
 Kubina, Frank J., Youngstown
 Kulikoff, Sidney, Youngstown
 Kundis, Lawrence E., Youngstown
 Kurjan, Harold, Youngstown
 Kurjan, Victor, Youngstown
 Kurtz, Joseph H., Youngstown
 LaForce, Raymond, Youngstown
 Landers, Louise, Youngstown
 Landgrabe, Gladys, Hubbard
 Larson, Edward, McDonald
 Lasko, Leonard, Youngstown
 Lattanzi, Arthur, Youngstown
 Lawrence, Joseph, Pulaski, Pa.
 Lawson, Alma L., Youngstown
 Layshock, Kathleen, Youngstown
 Leedy, Robert A., Youngstown
 Levine, Abe Ed., Youngstown
 Levitin, Harry, Youngstown
 Lewis, Robert C., Youngstown
 Lewis, Wilbert, Niles
 Linamen, Patricia, Warren
 Livermore, Harriet, Sharon, Pa.
 Llewellyn, Anne, Niles
 Lloyd, Albert, Youngstown
 Lloyd, David E., Youngstown
 Lloyd, Vincent W., Youngstown
 Long, El S., Cortland
 Long, Ralph, Salem
 Longshore, Mary L., Youngstown
 Lowengren, Edward, Youngstown
 Lower, Ralph F., Columbiana
 Lucas, Christian, Youngstown
 Lynch, Edward P., Youngstown
 Lynn, Jack, New Castle, Pa.
 MacGoogan, Margaret, Youngstown
 Mack, Louis, New Castle, Pa.
 Markstrom, Paul, Youngstown
 Marsh, John, Warren
 Martin, Albert, Youngstown
 Martin, Anita, Sharon, Pa.
 Martin, Donald, Youngstown
 Marzano, James, Campbell
 Masson, Mary Olive, Lowellville
 Masters, Edgar, Lowellville
 Matheus, Ruth, Youngstown
 Mauser, Leonard, Youngstown
 Mayberry, Joseph, Youngstown
 McConnell, Robert, Mineral Ridge
 McCorkle, Betty, Warren
 McCullough, Edgar, Poland
 McDermott, Paul, Youngstown
 McDonald, Dudley, Canfield
 McKeown, Marjorie, Youngstown
 McKibben, Florence, Youngstown
 McKnight, James, Youngstown
 McKnight, Wilfred, Sharpsville, Pa.
 McLaughlin, Frank, Hubbard
 McMurray, Arthur, Warren
 Mealy, David, Girard
 Meech, Harold, Youngstown
 Menster, Ralph, Youngstown
 Merat, Leo, Youngstown
 Meyer, Allan, Youngstown
 Michekoski, Joseph, Youngstown
 Middleman, Leo, Youngstown
 Mikita, Joseph, Youngstown
 Miller, Betty, Youngstown
 Miller, Daniel, Salem
 Miller, Grayson, Youngstown
 Mirando, James, Niles
 Mittler, William, Youngstown
 Modeland, Emma, Youngstown
 Mondrut, George, Niles
 Montasan, James, Youngstown
 Moore, Thomas, Youngstown
 Morey, Steven, Youngstown
 Morley, Edgar, Youngstown
 Morton, Maxine, Niles
 Moyer, Raymond, Warren
 Mullane, Robert, Youngstown
 Murphy, Hazel, Willbury, Mass.
 Naples, Jennie, Youngstown
 Naples, Ralph, Youngstown
 Narky, Anthony, Niles
 Nedelka, Nicholas, Youngstown
 Nell, Alice, Youngstown
 Nelson, William, Bessemer, Pa.
 Nichols, William, Youngstown
 Noble, Fred, Youngstown
 Noll, Myron, Youngstown
 Novotny, Joseph, Youngstown
 Nudo, Dominic, Youngstown
 Oakes, Calver, Youngstown
 O'Hara, Jane, Youngstown
 O'Hatnick, Emil, Youngstown
 Ollis, Nick, Warren
 Olson, Pauline, Youngstown
 O'Neill, Mary, Youngstown
 Orchard, William J., Sharon, Pa.
 Orzechewski, Alexander, Youngstown
 Ostrowski, Frank, Youngstown
 Ozersky, Isadore, Youngstown
 Pallatta, Lena, Youngstown
 Palmer, Patrick, Warren
 Palombi, Angelo A., Sharpsville, Pa.
 Park, Herbert, Youngstown
 Parker, Howard W., McDonald
 Parm, Joseph, Youngstown
 Parry, Willis J., Youngstown
 Passell, Julius, Youngstown
 Pastore, Samuel M., Youngstown
 Patrick, Donald C., Youngstown
 Patterson, Jacob B., Youngstown
 Patterson, Lester, Sharon, Pa.
 Patterson, William, Youngstown
 Pattison, Hugh, Youngstown
 Pearce, Ira, Youngstown
 Pelegrine, Lee, Youngstown
 Peluso, Sylvester, New Castle, Pa.
 Peterson, Shirley, Jamestown, N. Y.
 Petransky, Mary M., Youngstown
 Petrella, James, Niles
 Pezzato, Albert, Youngstown
 Philibin, John P., Youngstown
 Piccolo, Anthony, Campbell
 Polongin, Alex A., Farrell, Pa.
 Porter, Ernest J., Youngstown
 Porter, Wilbur E., Youngstown
 Poschner, Otto M., Youngstown
 Potor, Valentina, Campbell

YOUNGSTOWN COLLEGE

Poulakos, Peter, Youngstown
 Pressly, John, Campbell
 Probert, Edward F., Youngstown
 Prosser, Everett, Youngstown
 Quinlan, William, Youngstown
 Rabinowitz, Meyer, Youngstown
 Ragan, Joseph, Youngstown
 Raghanti, Fred A., Youngstown
 Rau, John, Campbell
 Ravella, Mike, Youngstown
 Reebel, Richard, Youngstown
 Regnery, Louis, Youngstown
 Reinehr, Francis, Columbiana
 Reno, Mary, Niles
 Rheuban, Abner, Youngstown
 Richards, Edwin J., Youngstown
 Richards, Mary W., Youngstown
 Riddell, Robert, Youngstown
 Rider, Philip R. N., Youngstown
 Rider, Ruth, Niles
 Righter, Florence, Youngstown
 Rizak, Frank, Youngstown
 Robbins, James, Sharon, Pa.
 Robinson, Irvine, Sharon, Pa.
 Rook, Franklin, Youngstown
 Root, William, Cortland
 Rosenblum, Louis, Youngstown
 Rosselli, Ralph L., Youngstown
 Rowbotham, Arthur, Youngstown
 Rowney, Raymond, Youngstown
 Rudersdorf, Gordon R., Youngstown
 Rudesill, Frank, New Castle, Pa.
 Rudick, Harry, Youngstown
 Rudick, Lawrence, Youngstown
 Ruggles, Earl F., North Jackson
 Russell, Blanche E., Youngstown
 Russell, Myron, Diamond
 Russo, Dominic, Youngstown
 Russo, Frank A., Youngstown
 Sakas, John, Youngstown
 Sampsel, Charles R., Youngstown
 Sartic, Paul, Salem
 Sause, Jean, Youngstown
 Sause, Robert J., Youngstown
 Scall, Amedeo, Youngstown
 Scally, Geraldine, Youngstown
 Scheetz, William, Youngstown
 Schindler, Paul H., Youngstown
 Schmidt, Adam C., Sharon, Pa.
 Schoenfeld, Eileen, Girard
 Schrock, Carl T., Youngstown
 Schroeder, Elmer, Youngstown
 Schultz, Marcella, Youngstown
 Schwager, George J., Youngstown
 Sciulli, Dominic R., Lowellville
 Semple, William, Youngstown
 Sharpe, George, Youngstown
 Sheffield, Loring, Warren
 Shindlecker, C. Dean, Youngstown
 Shotts, Robert E., Youngstown
 Shoup, Audley C., Niles
 Sigal, Fred H., Youngstown
 Simpson, John, Salem
 Slangenaupt, Hugh E., McDonald
 Smalley, William, Youngstown
 Smith, Betty Jane, Youngstown
 Smith, Charles E., Jr., Youngstown
 Smith, Emlyn N., Youngstown
 Smith, George J., New Middletown
 Smith, Howard W., Campbell
 Snyder, William, Sharpsville, Pa.
 Sompel, Cecelia, Girard
 Soppelsa, Anthony J., Youngstown
 Southwick, Dorothy, Warren
 Sovik, Elmer J., Youngstown
 Stambaugh, William, Girard
 Stambor, Leo, Youngstown
 Starr, Donald F., Youngstown
 Steadman, Marion, Youngstown
 Steele, Lester D., Warren
 Steinchak, Charles E., Brookfield
 Stere, Clifford, Youngstown
 Sterling, Raymond, Youngstown
 Stewart, Cecil, Youngstown
 Stillerman, David, Youngstown
 Stillerman, Lewis, Youngstown
 Stoerber, Robert, Youngstown
 Sucza, Elizabeth M., Farrell, Pa.
 Suha, Catherine, Youngstown
 Sullivan, Rosemary, Youngstown
 Suter, Alice, Youngstown
 Sutton, James, Fairchance, Pa.
 Taylor, James, Youngstown
 Tekushan, Nicholas, Youngstown
 Thillberg, Roy W., Youngstown
 Thomas, Della, Youngstown
 Thomas, Suitana, Youngstown
 Thomas, William E., Youngstown
 Thompson, George S., Youngstown
 Thompson, Lawrence C., Youngstown
 Thompson, Lloyd A., Youngstown
 Thompson, Paul, Youngstown
 Thompson, Paul G., Sharon, Pa.
 Thorne, Edward F., Youngstown
 Thorne, John C., Youngstown
 Thrasher, William D., Youngstown
 Trbovich, Rudolph, Youngstown
 Trikilis, Xanthippi, Youngstown
 Truelson, Robert R., Youngstown
 Truitt, Edward L., Youngstown
 Tsvetianoff, Boris, Campbell
 Tueciarone, Judith, Hubbard
 Tucke, Ralph, Niles
 Turner, Dean S., Youngstown
 Tweedy, John, Warren
 Uhlinger, Paul, Warren
 VanAuker, Paul, Youngstown
 VanBrocklin, Loren, Youngstown
 Vanish, Andrew J., Youngstown
 VanKirk, Fred W., Youngstown
 VanSuch, Nicholas, Campbell
 Vanusek, Mary, Youngstown
 VanVolkenburg, Donald, Youngstown
 Villani, Ralph A., Youngstown
 Vlaicu, Helen, Youngstown
 Volk, Joseph J., Youngstown
 Volosin, John, Poland
 Waddell, David G., Jr., Niles
 Wadlinger, Vincent, Youngstown
 Wald, Paul, Youngstown
 Walter, George R., Youngstown
 Walters, Hazel, Youngstown
 Walters, Robert D., Youngstown
 Walton, Robert, Youngstown
 Wanchow, Emily, Hubbard
 Ward, Thomas H., Youngstown
 Wasacz, Lottie, Youngstown
 Washburn, Frank, Sharon, Pa.
 Watkins, Paul D., Columbiana
 Watson, John M., McDonald
 Watson, William, Youngstown
 Wayland, Charles L., Youngstown
 Weimer, Ralph E., Girard
 Wellendorf, Frederick C., Youngstown
 Wellendorf, Grace E., Youngstown
 Welsh, Robert, Youngstown
 Wetherill, Homer, Youngstown
 Wheeler, F. Wade, Brookfield
 Whetson, Lionel J., Youngstown
 Whipkey, Ronald, Salem
 Wick, Richard K., Youngstown
 Wicks, Harold, Youngstown
 Wilcher, Elizabeth, Youngstown
 Wilcox, Ruth, Canfield

REGISTER OF STUDENTS

Wilk, Frank J., Masury Wilke, Fred, Youngstown Williams, Alice E., Youngstown Williams, Earl, Youngstown Williams, Frank, Youngstown Williams, Margaret E., Youngstown Williams, Robert L., Youngstown Wilson, Andrew, Struthers Wilson, Clyde R., Youngstown Wilson, Eugene K., Sharon, Pa. Wilson, Robert C., Youngstown Winfield, Durward, Girard Winter, David H., Youngstown	Witt, Martin, Youngstown Wolfe, John, Youngstown Wolkoff, Milton, Warren Womer, Theodore, Masury Wood, James, Youngstown Woodruff, Alameda, Girard Woolensack, Arthur H., Youngstown Wright, Elizabeth J., Youngstown Wylie, Jane, Youngstown Yash, John L., Struthers Young, David T., Hubbard Young, Thomas, Hubbard Young, Wilbur, Youngstown
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Sophomores

Alexander, Lawrence, Youngstown Alexander, Roy, Youngstown Amreihn, George, Boardman Anderson, Robert, Youngstown Anderson, Thomas E., Youngstown Ashdown, Alfred, East Palestine Anstin, Robert D., Youngstown Axtmann, Charles F., Youngstown Baker, Elbert Wm., Niles Bakich, Michael, Girard Baldwin, Willard, Youngstown Balmuth, Bernard, Youngstown Bartoli, Angelo, Youngstown Bates, Fred, Cleveland Beard, Grant W., Youngstown Beehler, Richard, Youngstown Bernat, Donald R., Youngstown Bernat, Leo, Youngstown Berndt, Paul, Youngstown Bode, Dorothy C., Youngstown Bott, John P., Youngstown Brown, Carrie, Youngstown Burnside, Walter, Niles Burrows, Anstin, Youngstown Byers, Charles H., Warren Campione, George, Campbell Carbon, Francis J., Sharon, Pa. Carr, Robert, Youngstown Cashon, Jay, Canfield Chill, James, New Castle, Pa. Coburn, Charles, Hillsville, Pa. Coney, Otis, Youngstown Connor, William H., Youngstown Conti, Roger, Lowellville Corbin, Francis, Hubbard Cowdery, Doris, Hartford Craig, Charles, Youngstown Crawford, William, Niles Culcasi, Philip, Sharon, Pa. Daff, Leo W., Youngstown Davies, Emily Jane, Lowellville Davies, Robert F., Youngstown Davis, Donald, Youngstown Davis, Thomas, Youngstown Dean, Virginia, Youngstown Deas, Alexander, Youngstown DeLucia, Anthony F., Youngstown Dingley, David, Youngstown D'Orsi, J. Anthony, Youngstown Downey, Leo, Youngstown Dreher, Frank, Youngstown Dusza, John, Warren Eckert, Raymond, Youngstown Edwards, John W., Youngstown Elder, Max, Warren Elliott, James, Sharon, Pa. Ellis, Joseph, Youngstown Emch, Paul, Youngstown	Enterline, Walter, Youngstown Eneyart, William, Girard Estes, H. John, Youngstown Evans, Flora E., Youngstown Fairbanks, Edith, Youngstown Feren, Ida, Youngstown Findley, Margaret, Poland Flannery, James P., Youngstown Foster, Paul, Youngstown Frech, Robert H., Niles Fritz, Curtis, New Castle, Pa. Fullerman, Clarence, Youngstown Furrie, Donald, Youngstown Fusco, Josephine, Youngstown Garwood, Moody, Youngstown Giardullo, Rocco, Youngstown Gless, Carolyn (Mrs.), Cortland Golasky, Frank W., Masury Griffith, Dwight, East Palestine Hamilton, Manuel, Youngstown Hart, Vaughn, Youngstown Haynes, Floyd, Youngstown Henderson, Harold, Sharpsville, Pa. Heselov, S. Bernice, Youngstown Hewitt, Eloise, Youngstown Hibler, Avis, Hubbard Hickey, Phillip, Youngstown Higgins, Patricia, Girard Hilb, Lawrence, Warren Hover, Grace, Youngstown Hrabko, Paul, Youngstown Hughes, Richard, Youngstown James, Reese, Youngstown Jenkins, Charles, Warren Jennings, Martin, Niles Johnson, Arthur, Youngstown Johnson, Hildur V., Youngstown Jones, Wilbur D., Youngstown Kambury, John, Youngstown Kane, Thomas, Youngstown Karhu, Lennard, Warren Keiser, John E., Youngstown Kenney, Joseph, Youngstown Kern, Brunetta, Canfield King, Charles, Youngstown Kirkner, Norbert, Youngstown Kovach, Dazo, Campbell Kovach, Michael, Campbell Kurjan, Phelps, Youngstown Lagerstrom, Helen, Youngstown Latimer, Ethel (Mrs.), Youngstown Lebio, Joseph, Youngstown Lennig, Arthur, Columbiana Levoff, Harold, Youngstown Lewis, Robert, Youngstown Lipsick, Abraham, Youngstown Major, Albert, Youngstown Maples, Frederick, Youngstown
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YOUNGSTOWN COLLEGE

Matasy, John, Youngstown
 Mathias, Dick, Youngstown
 McKee, Kenneth, Youngstown
 Medicus, Mark, Youngstown
 Mencer, Mary, Lowellville
 Miller, John, Youngstown
 Moliterno, Anthony, Girard
 Moser, Philip, Jr., Warren
 Mottinger, Lucile, Youngstown
 Muretic, Frances, Campbell
 Murphy, Robert M., Youngstown
 Nemeth, David, Youngstown
 Noble, Norman, North Jackson
 Obenaut, Frederick, Youngstown
 Patrick, Winifred, Youngstown
 Penman, John, Hubbard
 Petrini, Mark, Sharon, Pa.
 Phillips, DeWitt, Youngstown
 Pisani, Almond, Youngstown
 Pittenger, Leland, East Liverpool
 Pollack, Robert, Warren
 Post, Abram, Youngstown
 Pound, William, Youngstown
 Prochak, Walter, Struthers
 Pugh, Richard, Youngstown
 Ramsey, Victor, Youngstown
 Rau, Olga, Youngstown
 Ray, Kennedy, Youngstown
 Rhoades, Nellie, Youngstown
 Rosapepe, Carl, Youngstown
 Rosenberger, Gerald, Youngstown
 Rossman, David, Youngstown
 Rotar, John, Campbell
 Rudjak, Joseph, Campbell
 Saunders, Robert, Youngstown
 Sause, William, Youngstown
 Scarfo, Samuel, Campbell
 Schaeffer, Jack, Youngstown
 Schladen, George, Girard
 Schmid, Henry, Youngstown
 Seefried, Joseph, Youngstown
 Shaw, James, Brookfield
 Sigler, James, Cortland
 Simmons, Oscar, Warren

Skeggs, Leonard, Boardman
 Snavely, Beatrice, Youngstown
 Soos, Anna, Youngstown
 Spagnola, Raymond, Campbell
 Speizer, Bertram, Sharon, Pa.
 Starkweather, Mary, Youngstown
 Steele, George, East Liverpool
 Stone, Jayne, Youngstown
 Stroia, George, Youngstown
 Strawn, Herman, Salem
 Sumner, Clarence, Youngstown
 Swager, Gene, Youngstown
 Tate, John, Youngstown
 Thomas, William, Youngstown
 Thomas, William B., Youngstown
 Tierney, Martin, Youngstown
 Tobin, John, Youngstown
 Treat, Joseph, Youngstown
 Turner, James, Youngstown
 Uhrain, Michael C., Youngstown
 VanBrocklin, Virginia, Youngstown
 Vaschak, Olga, Youngstown
 Wagman, Jack, Youngstown
 Wagner, Woodrow, Youngstown
 Walp, Erma, Youngstown
 Walsh, William, Youngstown
 Waters, Paul, Newton Falls
 Weller, Robert, Youngstown
 Weppleman, Roger, Youngstown
 Whyte, Hugh, Warren
 Wickham, Patrick, Youngstown
 Williams, John, Youngstown
 Withers, Harold, Poland
 Wolfe, David, Youngstown
 Wolfert, Edward, Youngstown
 Wood, Cal, Youngstown
 Wroblewski, Walter, Youngstown
 Wuich, Nick, Niles
 Wymer, June, Poland
 Yashnik, Steven, Brookfield
 Yentch, Arba, Youngstown
 Young, Norman, New Castle, Pa.
 Zeigler, Allan, Youngstown
 Zinner, Marvin L., Youngstown
 Zurrow, Peter, Struthers

Juniors

Atkin, Walter, Warren
 Baker, Edna K., Niles
 Bartolo, William, Youngstown
 Baugh, Robert E., Youngstown
 Beckman, William A., Youngstown
 Birch, Homer, Struthers
 Black, Mary Louise, Struthers
 Blair, James, Youngstown
 Brown, Walter S., Youngstown
 Carlson, Arthur, Youngstown
 Catlos, Albert, Salem
 Cavanaugh, Robert, Youngstown
 Chance, Daniel, Niles
 Charignon, M. Jean, Youngstown
 Chirelli, Gene, Youngstown
 Clark, Chris, Niles
 Cline, Mary Margaret, Girard
 Davies, Bargarret, Youngstown
 Davis, Zylpha, Youngstown
 Deubery, Paul W., Youngstown
 Devine, Denis, Girard
 Devine, Sylvanus, Struthers
 Dillon, James E., Youngstown
 Eckert, Wilfred, Youngstown
 Elser, Galen, North Lima
 Elsie, Eugene, Youngstown

Engle, John, Youngstown
 Evans, Ellen, Youngstown
 Fedor, Samuel, Hubbard
 Fenton, Chester, Lowellville
 Gifford, Helen Irene, Youngstown
 Fenton, Mary E., Lowellville
 Frank, Arthur, Youngstown
 Gillis, Mary, Niles
 Goms, Eugene, Warren
 Gondel, Thomas, Youngstown
 Grandmontague, Robert, Youngstown
 Greenwood, Samuel H., Youngstown
 Grizinski, Theodore, Campbell
 Groves, Myron, Youngstown
 Gubbins, William, Youngstown
 Heinimaki, Evelyn, Youngstown
 Hernan, Francis, Youngstown
 Honda, Nicholas M., Campbell
 Horner, Virginia, Youngstown
 Hoskinson, C. Norris, Mineral Ridge
 Hussey, Coletta, Youngstown
 Hutchinson, Mabel Lucille, Lowellville
 Inglis, Norman, Youngstown
 Ingram, James, Sharon, Pa.
 Jones, Katherine, Lowellville
 Jones, Miriam L., Youngstown

REGISTER OF STUDENTS

Kovalchik, Anthony, Youngstown
 Kunicki, Jane Stella, Campbell
 Leibel, Solomon, Youngstown
 Lindner, Marie, Youngstown
 Litvin, William, Niles
 Mackil, David, Youngstown
 Mahoney, William, Youngstown
 Mandry, Betty, Girard
 Meek, Carolyn, McDonald
 Miller, Elizabeth, Edenburg, Pa.
 Miller, Owen, Youngstown
 Moore, Francena, Struthers
 Neimark, Bella, Lowellville
 Nolan, Raymond, Youngstown
 Olds, Margaret, Youngstown
 Palchefsky, Frances, Youngstown
 Parmenter, Marion, Youngstown
 Penfield, Mary, Struthers
 Prescott, David, Youngstown
 Prezioso, Angelo, Youngstown
 Proctor, Edward, Youngstown
 Pugh, Harry, Youngstown
 Ramm, Eugene, Youngstown
 Roberts, Thompson, Struthers
 Roller, H. Morell, Canfield
 Rosapepe, Rose, Youngstown
 Scott, John, Youngstown
 Scruggs, William, Struthers
 Sepic, John, Lowellville
 Shirock, Irma, Girard

Shively, Walton, Mineral Ridge
 Slessman, Dale, Youngstown
 Snow, Marvin, Youngstown
 Sofranko, John, Youngstown
 Sondecker, Louis, Youngstown
 Stage, C. Ted, Youngstown
 Stewart, Frank, Youngstown
 Strauss, Reitta, Girard
 Sylak, Stanley, McDonald
 Tavalario, James, Youngstown
 Thexton, George, Youngstown
 Thomas, Charles, Niles
 Thomas, Edwin, Jr., Struthers
 Thomas, Evelyn, Youngstown
 Thomas, Richard, Youngstown
 Van Court, Woodrow, Mineral Ridge
 Vinski, Paul, Youngstown
 Vivo, Anthony, Youngstown
 Wadsworth, Helen, Youngstown
 Weir, Robert, Warren
 Weiss, Opal, Youngstown
 Welch, Ludt, Youngstown
 Whan, Katherine, North Lima
 Wheeler, Helen, Youngstown
 Williams, Myron, Canfield
 Woodrow, James, New Castle, Pa.
 Wright, Raymond, Warren
 Zebroski, Jean, Sharon, Pa.
 Zellers, Charles, Columbiana
 Zuber, Earl, Struthers

Seniors

Agnone, Madeline, Youngstown
 Bandy, Howard, Youngstown
 Barker, Mary L., Warren
 Barnes, James, Youngstown
 Bentfeld, Frederick, Youngstown
 Birch, Louis, Youngstown
 Brittain, Ruth, Girard
 Brown, William A., Diamond
 Burton, Margaret, Youngstown
 Callor, John, Youngstown
 Cassano, Stella, Youngstown
 Coats, Christine, Youngstown
 Costarella, Adam, Girard
 De Bartolo, James, Youngstown
 Diacandrew, Michael, Youngstown
 D'Orsi, Albert, Youngstown
 Dyer, Hibbard, Pendleton, Ind.
 Ellsworth, Ruth (Mrs.), Youngstown
 Evans, Frank, Girard
 Fiess, Max, Youngstown
 Friedman, Donald, Youngstown
 Gabor, Joseph, Youngstown
 Gambrel, Francis, Youngstown
 George, Jessica, West Middlesex, Pa.
 Gold, Mary, Youngstown
 Griffiths, James, Youngstown
 Gue, Myrtle, Struthers
 Gue, Ruth, Struthers
 Gulfo, Frank, Youngstown
 Hall, Helen, Youngstown
 Hartmann, William, Youngstown
 Holz, Theodore, Poland
 Howard, Bryant, Warren
 Hull, Helen, Youngstown
 Jaczko, Frank, Youngstown
 Keckley, Virginia, Youngstown
 Kelly, Ralph, Youngstown
 Kirkner, Janet, Youngstown
 Knauff, Paul, Girard
 Knight, Phillip, Sharon, Pa.
 Knoche, Leah, Struthers
 Koczur, John, Girard

Koniecko, Alexander, Youngstown
 Lampila, Albert, Warren
 Lowry, Robert, Warren
 Maggiano, Michael, Warren
 Maloney, Paul, Youngstown
 Margo, Madeline, Youngstown
 McCracken, George, Youngstown
 McGuckin, Mary, Youngstown
 McKee, James, Sharon, Pa.
 Middleton, John, Youngstown
 Miller, Gladys, Youngstown
 Miller, Lyle, Youngstown
 Monahan, Anna, Girard
 Moore, Charles, Sharon, Pa.
 Powers, Jeannette, Canfield
 Powers, Mildred, Marion
 Raupple, Anita, J., Youngstown
 Rempes, Howard, Youngstown
 Robinson, Thomas, Youngstown
 Rodgers, Elinor, Youngstown
 Rossano, Anthony, Struthers
 Russo, Philomena, Youngstown
 Sakmar, Anna Marie, Struthers
 Shields, Paul E., Youngstown
 Smith, James E., Youngstown
 Smith, Marion, Youngstown
 Stillwagon, Mildred, Niles
 Stine, Charles, Youngstown
 Stoy, Donald Lewis, Youngstown
 Strain, Shelley M., Youngstown
 Sutherland, Hazel (Mrs.), Youngstown
 Taylor, Robert, Youngstown
 Thompson, Ernest R., Pulaski, Pa.
 Treffert, Fay, Niles
 Tuecciarone, Adeline H., Hubbard
 Walker, William O., Youngstown
 Wells, Bill, Youngstown
 Westfall, Rebekah, Youngstown
 Wiandt, Russell, Youngstown
 Wighton, Marjorie, Youngstown
 Wilcox, Churchill, Canfield
 Wood, Herman, Warren

YOUNGSTOWN COLLEGE

Law

Averbach, Abe, Youngstown
 Ballatine, George, Salem
 Beebe, John R., Youngstown
 Best, William, Youngstown
 Bibbee, Helen, East Liverpool
 Brown, William F., Youngstown
 Butler, Edward, Youngstown
 Chambers, James, Youngstown
 Chill, Bernard, New Bedford, Pa.
 Coope, Frederick, Youngstown
 Cossack, Leda, Youngstown
 Croysdale, William, Youngstown
 Dalrymple, Allen, Youngstown
 Donahue, John, Youngstown
 Donohue, Delbert, Irontown
 Dougherty, Paul, Youngstown
 Evans, William, Youngstown
 Fine, Raymond, Youngstown
 Fisher, Joseph, Lowellville
 Giering, Louis, Poland
 Harvey, Stuart, Youngstown
 Heller, Robert, Warren
 Hurst, James, Youngstown
 Hyde, Clifford, Warren
 Hyde, Louis, Warren
 Kieler, Walter, New Castle, Pa.
 Kiltyka, Stephen, Sharon, Pa.
 Kovalchik, Anthony, Youngstown
 Kryzan, Frank, Youngstown
 Lea, James, Youngstown
 Leach, Raymond, Warren
 Leonard, Paul K., Poland
 Marowitz, Albert, Warren
 Mastriana, Anne, Youngstown
 McClendon, John, Youngstown
 McCracken, Chester, North Jackson
 McDonald, Thomas, Warren
 Moench, Phyllis, Youngstown
 Moritz, Paul, Niles
 Newman, John, Youngstown
 Nuth, James, Youngstown
 Ogram, Melvin, Youngstown
 Olsen, Jack, Youngstown
 Palmer, Arthur, Newton Falls
 Perkins, Alden, Youngstown
 Roberts, Allen, Sharon, Pa.
 Rosapepe, Joseph, Youngstown
 Sherfel, Karl, Youngstown
 Shields, Ina (Mrs.), Youngstown
 Shields, Lysle, Youngstown
 Sieman, Harold, Warren
 Simcox, William, Youngstown
 Simmons, Katherine, Poland
 Sporer, Wanda, Youngstown
 Walsh, Charles, East Liverpool
 Walters, Roy, Youngstown
 Wentz, Robert, Sharon, Pa.
 Wester, Arthur, Youngstown
 Wolcott, Harry, Struthers
 Zeigler, Charles, Youngstown

Post-Graduates

Balla, William, Youngstown
 Beck, Emogene, Youngstown
 Brown, Lewie, Youngstown
 Capito, Michael, Warren
 Clark, Jean, Youngstown
 Corn, Daniel B., Sharon, Pa.
 Dilley, Sara, Youngstown
 Dunlap, Homer, Youngstown
 Eddy, Thomas, Youngstown
 Flaherty, Edward, New Castle, Pa.
 Flaherty, John, New Castle, Pa.
 Friedrich, Marguerite, Youngstown
 Hamlin, Frederick, Youngstown
 Henderson, Charles, Youngstown
 Herman, Ray M., Salem
 Jewett, Mary Elizabeth, Youngstown
 Johnston, Thelma, Mercer, Pa.
 Jones, Olive, Youngstown
 Klinker, Louis G., New Castle, Pa.
 Koornick, J. H., Sharon, Pa.
 Kryzan, Marie Theresa, Youngstown
 Layshock, Anna, Youngstown
 Lippincott, Harold, Youngstown
 McConnell, Margaret, Youngstown
 Mogan, George L., Youngstown
 Milliron, William A., Youngstown
 Morris, Helen Marie, Youngstown
 O'Neil, Anthony, Youngstown
 Powers, Gene, Canfield
 Reiter, Homer, Youngstown
 Robinson, Harold, Nutwood
 Rogers, George, Salem
 Rudibaugh, John, Youngstown
 Sage, Andrew, Farrell, Pa.
 Schauweker, George, Youngstown
 Schuller, George, Youngstown
 Scofield, James C., Struthers
 Scott, James, Youngstown
 Sedlacko, Stephen, Struthers
 Shook, Donald, North Jackson
 Smiley, Dom T., Sharon, Pa.
 Smithson, Margaret C., Youngstown
 Stearns, Caroline (Mrs.), Youngstown
 Stearns, Elizabeth, Youngstown
 Thompson, Dale, Youngstown
 Turley, Alvin G., Kinsman
 Turner, Mae, Youngstown
 Wallace, Leland O., Scio
 Weichman, Dorothy, Canfield
 Weikal, James, Clark, Pa.
 Whitmore, Hazel, Youngstown

SPECIAL

Archibald, Charles R., Youngstown
 Aspery, Romeal L., Youngstown
 Aubrey, John, Youngstown
 Bennett, Harry, Warren
 Bertilacci, Joseph, Youngstown
 Boyd, Florence, Sharon, Pa.
 Defendeifer, Benjamin F., Struthers
 Deibel, Mary Bennett, Youngstown
 Foust, N. Letha, Struthers
 Gaver, Lester Carl, Youngstown
 Gilmore, Paul Levy, Youngstown
 Griepenstroh, Florence, Youngstown

REGISTER OF STUDENTS

<p>Griffith, Allen, Youngstown Hall, Harry, Jr., Leetonia Henne, Elizabeth, Youngstown Hewitt, James A., Youngstown Hirsch, Lewis, Youngstown Holberson, Henry A., Youngstown Johnson, Harold, Youngstown Kearney, Jack P., Youngstown Kramer, Lillian, Youngstown Lisko, Evelyn, Hubbard Malkin, Myron, Youngstown McCooley, Daniel, Youngstown</p>	<p>Meyer, Eileen, Youngstown Porter, Wade, Youngstown Potkanowicz, Thomas, Youngstown Schotten, George, Hubbard Stegmaier, George D., Warren Timm, Lydia, Youngstown Trimble, Kenneth P., New Castle, Pa. Vaughan, Arthur, Salem Viets, Edna (Mrs.), Youngstown Ward, Kenneth I., Struthers White, W. Harry, New Castle, Pa. Yumbar, William P., Campbell</p>
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