



Youngstown College

BULLETIN

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1937-1938

Co-Educational

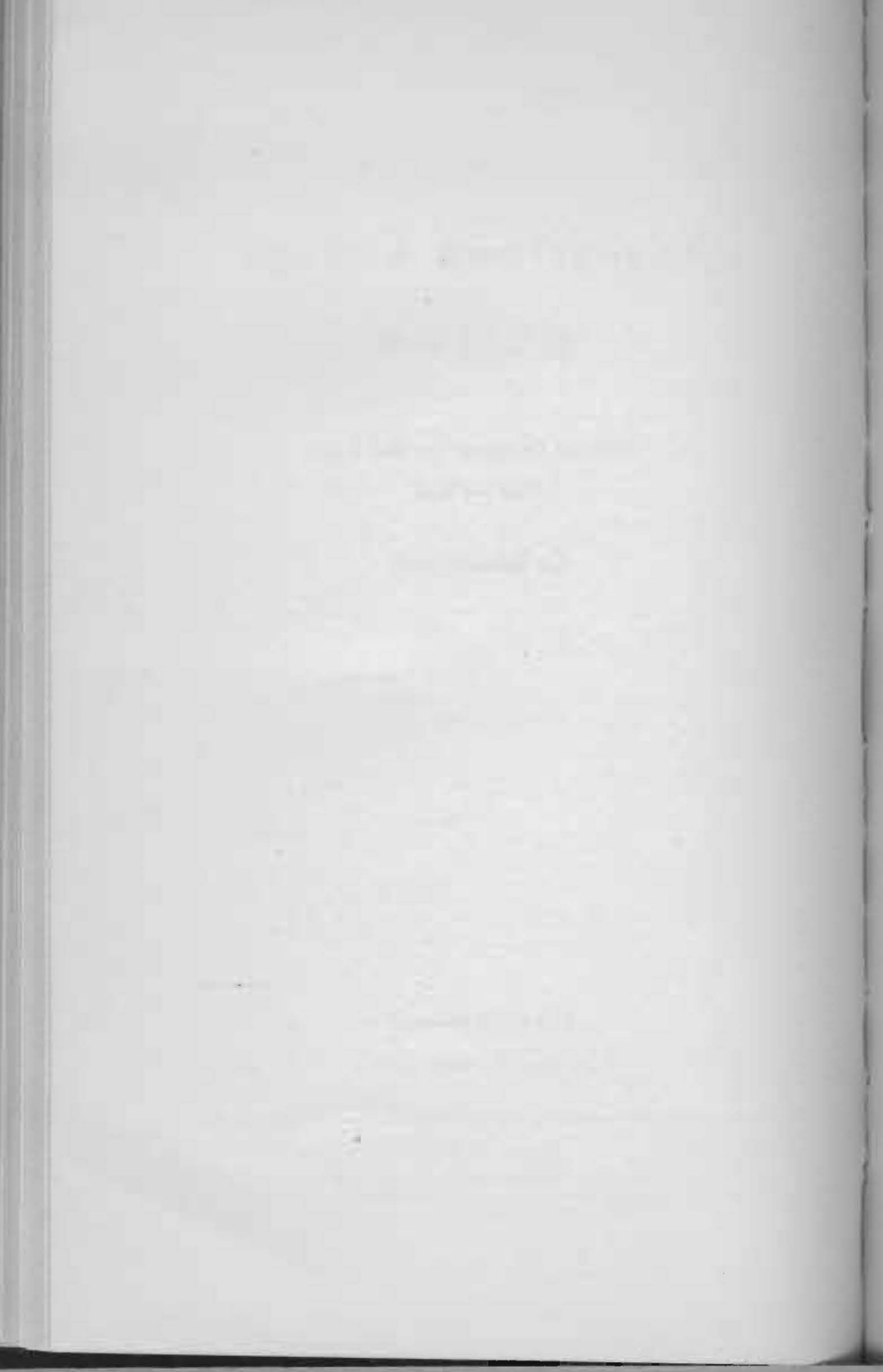
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DEGREES OFFERED

Bachelor of Arts

Bachelor of Science

Bachelor of Science in Education

Bachelor of Laws

COLLEGE CALENDAR

College of Arts and Sciences

1937

| | | |
|-----------|----|--|
| September | 11 | Final registration for Freshmen. |
| September | 14 | Final registration for Upper Classmen. |
| September | 15 | Class work begins. |
| November | 24 | Thanksgiving holiday begins, 10:00 P. M. |
| November | 29 | Thanksgiving holiday ends, 8:00 A. M. |
| December | 17 | Christmas vacation begins, 10:00 P. M. |

1938

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|---------|----|-------------------------------------|
| January | 3 | Christmas vacation ends, 8:00 A. M. |
| January | 28 | First semester ends, 10:00 P. M. |
| January | 31 | Second semester begins, 8:00 A. M. |
| April | 11 | Easter vacation begins, 8:00 A. M. |
| April | 18 | Easter vacation ends, 8:00 A. M. |
| May | 20 | May Day. |
| June | 5 | Baccalaureate Service. |
| June | 10 | Commencement. |
| June | 11 | Alumni Day. |
| June | 13 | Summer Session begins. |

School of Law

1937

| | | |
|-----------|-------|----------------------|
| September | 23-24 | Registration. |
| September | 28 | Fall Quarter begins. |
| December | 17 | Fall Quarter ends. |

1938

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|-----------|----|------------------------|
| January | 4 | Winter Quarter begins. |
| March | 25 | Winter Quarter ends. |
| March | 29 | Spring Quarter begins. |
| June | 17 | Spring Quarter ends. |
| July | 5 | Summer Quarter begins. |
| September | 23 | Summer Quarter ends. |

YOUNGSTOWN COLLEGE

BOARD OF GOVERNORS

| | |
|-----------------------|---|
| James L. Wick, Jr. | Chairman President, Falcon Bronze Company |
| W. E. Bliss | Vice-Chairman Vice-President, Standard Slag Company |
| N. B. Folsom | Recording Secretary Trust Officer, Mahoning National Bank |
| J. C. Argetsinger | Vice-President, General Counsel, and Secretary, Youngstown Sheet and Tube Company |
| 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 |
| C. H. Elliott | Assistant Vice-President, Republic Steel Corporation |
| Philip W. Frieder | President, Philip W. Frieder Company |
| 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 |
| 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 |
| Jay Ogram | Assistant Cashier, Union Na- tional Bank |
| 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 |
| C. W. Sumner | Librarian, Youngstown Public Library |
| Clarence J. Strouss | President, Strouss-Hirshberg Company |
| 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 |
| Philip W. Frieder | President, Philip W. Frieder Company |
| 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
Eleanor B. North, 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
Constance Robinson, A. B. Librarian
Wanda Sporer, A. B. Secretary to the President
Mrs. Helen Lyon Cashier
Carolyn Higgins, A. B. Assistant Registrar
Marguerite Friedrich, A. B. Secretary

YOUNGSTOWN COLLEGE

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
 Three Years Graduate Work, Union Theological
 Seminary
- Karl H. Benkner, M. E.* German
 M. E., Military Technical Academy, Charlottenburg,
 Germany.
- 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
 One Year Graduate Work, Columbia University
- Harold N. Burt, B. D. Philosophy
 B. S., University of Pennsylvania
 B. D., Union Theological Seminary
 One Year Graduate Work, Columbia University
 One Year Graduate Work, Yale 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
 Two Years Graduate Work, Columbia University
- D. H. Fairfield, B. P. E.* Hygiene
 B. P. E., George Williams College
 One Year Graduate Work, George Williams College

FACULTY

- 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
- Ralph Kircher* _____ Engineering Drawing
 Fenn College
- Randall Leyshon, A. B. _____ Physical Education
 A. B., Youngstown College
- Alvin Myerovich _____ Violin
 Pupil of Sascha Jakobinoff and Albert Meioff, Curtis
 Institute of Music, Philadelphia; Andre de Ribeau-
 pierre, Louis Persinger, and Joseph Fuchs, Cleveland
 Institute of Music; Graduate of Cleveland Institute of
 Music
- Wilbur Nichol* _____ Engineering Drawing
 Youngstown College
- Eleanor B. North, A. M. _____ English
 A. B., Pennsylvania State College
 A. M., Pennsylvania State 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
- P. J. Ross, Jr., M. A.* _____ Political Science
 A. B., Kentucky Wesleyan
 M. A., University of Kentucky
 Two Years Graduate Work, University of Kentucky
- Theresa Scarnecchia, A. B.* _____ Italian
 A. B., Youngstown College
 One Year Graduate Work, University of Pittsburgh

YOUNGSTOWN COLLEGE

- 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
- Eloise E. Spencer, B. S.*-----Physical Education
 B. S., University of Nebraska
- Henry V. Stearns, D. Ped.-----Music
 B. Mus., American Conservatory of Music
 F. A. G. O.
 D. Ped., Cincinnati Conservatory of Music
- James W. Tidd, M. A.*-----History
 B. S., Kent State University
 M. A., Ohio State University
 Graduate Work, 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
- 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.

FACULTY

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
- Arthur W. Einstein, M. S. E. Salesmanship
 B. S. in M. E., Carnegie Institute of Technology
 M. S. E., University of Michigan
 Graduate Work in Marketing, Columbia University
- David Endres, A. B. Accounting
 A. B., University of Michigan
 Certified Public Accountant
- Roy R. Fellers, LL. B. Public Speaking
 A. B., University of Michigan
 LL. B., Youngstown College
- Elmer Hykes, B. S. Accounting
 A. B., Bliss College
 B. S., Bliss College
 One Year Graduate Work, Denver University
 and Ohio State University
- O. L. Pfau, A. B. Credits and Collections
 A. B., Wooster College
- S. E. Trinkle Commercial Art
- 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

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

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

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

Chapel and Religious Activities—Mr. Stearns, chairman; Miss
North, 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.

Discipline—Miss North, Mr. Wilcox.

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. Semans.

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, 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.

YOUNGSTOWN COLLEGE

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, used for class and recreation rooms. To the north of that 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 Liberal Arts College Library occupies the fourth floor of the Main College Building, comprising two reading rooms, one magazine file room, and one large stack room. Recently, several thousand volumes have been added annually, and will continue to be added for some time to come. In addition, students have access to the Reuben McMillan Public Library, a block away. The books of the College Library have been selected carefully and there is a freedom from *dead wood* that makes this collection notable.

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.

Scholarships

Twelve scholarships of about \$100 each are given to upper classmen each year, based principally on scholarship, general ability, and need. A similar number for \$100 each are granted freshmen yearly on the same basis.

A scholarship to cover the amount of a year's tuition in instrumental or vocal courses is offered by each faculty member of the School of Music. The award is determined by competitive examination before a faculty committee at the beginning of the school year.

Summer Session

Youngstown College holds a nine-week Summer Session 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 will begin 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 guarantee 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. 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.

THE COOPERATIVE PLAN

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 employe 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 extra-curricular activities, such as, athletics, debating, and music functions. However, since the scholastic standing of the student must always take precedence over the extra-curricular 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.

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.

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.

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 extra-curricular 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 be presented 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 extra-curricular 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

Extra-Curricular

- 10 points Student Council President
 10 " Jambar Editor
 8 " Student Council Officers
 8 " Annual Editor
 8 " Basketball Captain
 8 " Basketball Major Awards
 7 " Student Council Members
 7 " Annual Business Manager
 7 " Senior Basketball Manager
 5 " Other Major Athletic Awards
 5 " Senior Class President
 5 " Junior Class President
 5 " May Queen
 5 " Junior Basketball Manager
 5 " Jambar Business Manager
 5 " Debating Club President
 5 " Jambar Staff
 5 " Annual Staff
 5 " May Day Chairman
 3 " Athletic Board Members
 3 " Intramural Board Members
 3 " Intramural Board Assistants
 3 " Cheer Leaders
 3 " Athletic Minor Awards

YOUNGSTOWN COLLEGE

| | | |
|---|--------|--|
| 3 | “ | Debating Team |
| 3 | “ | Major Parts in Plays |
| 2 | “ | Band |
| 2 | “ | Stage Managers, Electricians, and Student Directors |
| 1 | point, | Glee Club President |
| 1 | “ | Class Officers |
| 1 | “ | Dramatic Club President |
| 1 | “ | Minor Parts in Plays |
| 1 | “ | Chairman for May Day Sub-Committees |

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 | Open Road Club |
| Chapel Choir | Orchestra |
| College Chorus | Social Science Club |
| Cosmopolitan Club | Student Council |
| Debate Club | The Mimes |
| Inter-fraternity Council | Varsity Club |
| Women's Glee Club | Women's Intramural Board |
| Men's Glee Club | |

Professional and Honorary Fraternities

Alpha Sigma Pi (Law, National)
 Beta Chapter of Phi Epsilon (Science)
 Omicron Lambda (Biology)
 Phi Epsilon (Science)
 Sigma Tau Delta (English, National)

Social Fraternities

| | |
|---------------------------|-------------------|
| Alpha Pi Sigma (National) | Phi Lambda Delta |
| Gamma Sigma | Phi Sigma Epsilon |
| Phi Gamma | Sigma Delta Beta |
| Phi Kappa Delta | 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. 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. Otherwise a mark of failure is recorded for the course dropped.

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.

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.

YOUNGSTOWN COLLEGE

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.

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.

REGISTRATION AND CLASSIFICATION

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 for graduation, or an average grade of C+.

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

REQUIREMENTS FOR DEGREES

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 Science8 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 Science9 hours

Psychology, Philosophy, Bible6 hours

Group IV

Physical Education2 hours

Hygiene1 hour

Orientation1 hour

One half hour's credit is given for each of four semesters of gymnasium work, consisting of two one-hour periods per week.

One hour's credit is given for one semester's work in Hygiene and Orientation, respectively. These courses should be taken during 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.

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.

Requirements for the Bachelor
of Science Degree

The Bachelor of Science Degree has been authorized this year and curriculums in the following courses have been set up:

Chemical Engineering
Mechanical Engineering
Metallurgical Engineering

See the respective curriculums for requirements.

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; Distribution by Years

Electives sufficient, together with the required subjects, to make a total of 124 semester hours must be taken for graduation. *One semester hour's credit represents three hours' work per week, for one semester, in preparation, recitation, lecture, or laboratory work.*

Not less than 30 semester hours must be taken in Youngstown College.

At least 60 semester hours must be taken in courses numbered 200 and above.

At least 40 semester hours must be taken in courses numbered 300 and above.

Any Senior who takes a course which has a number below 200, will have his credit for that course reduced by one-third.

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 the Bachelor of Laws Degree

The entire course of study as outlined under Curriculums is required for the Bachelor of Laws Degree.

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 60 days prior to Commencement.

YOUNGSTOWN COLLEGE

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 |
| Gymnasium Fee | 5.00 |
| Hygiene Fee (When taken without gymnasium) | 2.50 |
| Diploma Fee | 5.00 |
| 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 |
| Gymnasium Fee | 5.00 |
| Laboratory Fee | 5.00 |
| Library Fee | 2.00 |
| Books and Supplies | 20.00 |
| <hr/> | |
| Total, \$112.00 | |

| | |
|---|---------------|
| <i>Students Carrying Less Than Twelve Semester Hours</i> | |
| 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) | |
| Library Fee (For students carrying two or more subjects or 6-11 hours) | 1.00 |
| Student Activity Fee (For students carrying 6-11 hours, both inclusive. This includes Library Fee.) | 2.50 |

FEEES AND EXPENSES

Special Fees

The *Matriculation Fee* of \$5.00 (required of all new students and payable once only) 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: Students carrying a full college load (12-15) will be assessed additional tuition for these courses as follows:

Drawing and Painting from Life, \$5.00 per credit hour.
Other Art 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.

Supervised Student Teaching Fee \$10.00.

Installment Tuition

Students who desire to pay their tuition in installments shall make a down payment of at least twenty-five percent 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.

YOUNGSTOWN COLLEGE

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 they come due 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 constitutes a waiver of any claim to a refund and an installment contract shall be payable in full.

No application for refund will be considered after six weeks of a school term have elapsed, except in the case of illness (supported by a doctor's certificate) which makes it impossible for the student to attend classes. No application will be considered after mid-semester.

School of Law

Tuition each quarter \$40.00.

A ten per cent discount will be allowed on all contracts paid in cash within ten days after the opening of the quarter. Students who elect to pay their tuition in installments shall make a down payment of at least twenty-five per cent within ten days after the opening of the quarter 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.

Curriculums

BIOLOGY

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

First Year

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

Second Year

| | | | |
|--------------------------------|--------|--------------------------|--------|
| Biology 201-202 or 210-211.... | 8 hrs. | Mathematics 205 | 3 hrs. |
| Chemistry 211 | 3 hrs. | Physical Education | 1 hr. |
| Chemistry 215 | 3 hrs. | Electives | 7 hrs. |
| Modern Language | 6 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. | | |

If the student lacks a knowledge of physics, the beginning college course should be added to the above curriculum.

Those preparing for high school biology teaching should consider the special State requirements in biology before the third year.

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 degree, 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.

YOUNGSTOWN COLLEGE

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

Specializing in Accounting

First Year

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

Second Year

| | | | |
|-------------------------------|----------|-------------------------------|--------|
| Accounting 308-309 | 6 hrs. | Speech 115, 116..... | 4 hrs. |
| Economics 101, 102..... | 6 hrs. | Business Organization 303.... | 3 hrs. |
| Modern Language | 6-8 hrs. | Physical Education | 1 hr. |
| 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.

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

Specializing in Marketing, Salesmanship, or Management

First and Second Years

Same as Suggested Curriculum for those specializing in Accounting.

Third Year

| | | | |
|-------------------------------|--------|----------------------|---------|
| Economics 307 | 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.... | 2 hrs. | Electives | 11 hrs. |

Fourth Year

| | | | |
|-------------------------------|--------|-------------------------------|---------|
| Business Organization 315.... | 3 hrs. | Business Organization 328.... | 2 hrs. |
| Business Organization 325.... | 2 hrs. | Electives | 23 hrs. |

CURRICULUMS

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.

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.

Fifth Year

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

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

Marketing or Economics 101, 102..... 6 hrs.
Advertising Copy 4 hrs. Electives 6 hrs.

Third Year

Marketing or Electives12 hrs.
Advertising Copy 4 hrs.

Fourth Year

Advertising Management 3 hrs. Market Analysis 3 hrs.
Electives10 hrs.

YOUNGSTOWN COLLEGE

CHEMISTRY

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

First Year

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

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 | 1 hr. |

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. | Social Science | 6 hrs. |
| Chemistry 319 | 2 hrs. | English | 3 hrs. |
| Chemistry 320 | 2 hrs. | *Psychology, Philosophy, or Bible | 6 hrs. |
| Chemistry 407 | 1 hr. | Electives | 4 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.

ECONOMICS

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

First Year

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

Second Year

| | | | |
|-------------------------------|--------|--------------------------|--------|
| English 203, 204 or 206 | 6 hrs. | History 101, 102 | 6 hrs. |
| Modern Language | 6 hrs. | Economics 101, 102 | 6 hrs. |
| Psychology 201-202 | 6 hrs. | Physical Education | 1 hr. |

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 201, 202 | 6 hrs. |
| Economics 402, 408 | 6 hrs. | Electives | 15 hrs. |

CURRICULUMS

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). 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.

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 | 6-8 hrs. | Hygiene | 1 hr. |
| Laboratory Science | 8 hrs. | Orientation | 1 hr. |
| Physical Education | 1 hr. | Electives | 5-3 hrs. |

Second Year

| | | | |
|--------------------------|--------|------------------------------|---------|
| Psychology 201 | 3 hrs. | Social Science | 6 hrs. |
| Psychology 202 | 3 hrs. | Science or Mathematics | 3 hrs. |
| Speech 115 | 2 hrs. | Physical Education | 1 hr. |
| English 203 or 204 | 3 hrs. | Electives | 10 hrs. |

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Third Year

| | |
|------------------------------|----------------------------|
| Education 300 3 hrs. | Education 306 2 hrs. |
| Education 301 3 hrs. | Education 308 3 hrs. |
| Education 303 2-3 hrs. | Electives 14-13 hrs. |
| Education 304 3 hrs. | |

Fourth Year

| | |
|----------------------------|------------------------------|
| Education 400 2 hrs. | Education 404 3-5 hrs. |
| Education 401 3 hrs. | Electives 22-20 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.

Major—18 Sem. Hrs.

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

Elective 9 sem. hrs.
Any higher math.
Astronomy
Statistics
Excess in req. subjects
Com. Arith.

| | |
|-----------------------------|-----------------------------|
| 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.

Major—18 Sem. Hrs.

| | |
|-----------------------------|------------------------------------|
| | Required 12 sem. hrs. |
| History 2 units h. s. | 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.

| | |
|---|--|
| | Required 9 sem. hrs. |
| Social Science 1 unit h. s. (May be Hist. or Geog.) | 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

Minor—12 Sem. Hrs.

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

Elective 6 sem. hrs.
Same as major elective

| | |
|--|-----------------------------------|
| | Required 6 sem. hrs. |
| | Eng. Comp. 3 |
| | Eng. or Am. Prose and or Poetry 3 |

Elective 6 sem. hrs.
Same as major elective

Minor—12 Sem. Hrs.

| | |
|--|--------------------------|
| | Required 6 sem. hrs. |
| | World History 3 |
| | American History 3 |

Elective 6 sem. hrs.
Same as major elective

| | |
|--|----------------------|
| | Required 6 sem. hrs. |
| | Economics 2 |
| | Sociology 3 |

Elective 6 sem. hrs.
Same as major elective

CURRICULUMS

| | |
|---|--|
| <p style="text-align: center;">Required 9 sem. hrs.</p> <p>Biological Zoology 3 Science Botany 3 1 unit or Gen. Biology 6 h. s. Physiology, Hygiene or Agriculture 3</p> <p style="text-align: center;">Elective 9 sem. hrs.</p> <p>Excess in req. sub. Entomology Bacteriology</p> <p style="text-align: center;">Required 12 sem. hrs.</p> <p>Physical Science 1 unit h. s. Physics 6 Chemistry 6</p> <p style="text-align: center;">Elective 6 sem. hrs.</p> <p>Excess in req. sub. Any branch of chem. or physics or related physical science.</p> <p style="text-align: center;">Required 12 sem. hrs.</p> <p>Earth Science 1 unit h. s. Geology 3 to 9 Geography 3 to 9</p> <p style="text-align: center;">Elective 6 sem. hrs.</p> <p>Excess in req. sub.</p> <p>Latin 2 units h. s. College Latin in usual sequence</p> <p>French German Spanish Greek</p> | <p style="text-align: center;">Required 6 sem. hrs.</p> <p>Zoology; Botany 6 Gen. Biology 6 or any comb. of 6 sem. hrs.</p> <p style="text-align: center;">Elective 6 sem. hrs.</p> <p>Same as major elective</p> <p style="text-align: center;">Required 6 sem. hrs.</p> <p>Physics 3 Chemistry 3</p> <p style="text-align: center;">Elective 6 sem. hrs.</p> <p>Same as major elective</p> <p style="text-align: center;">Required 6 sem. hrs.</p> <p>Geology 3 Geography 3</p> <p style="text-align: center;">Elective 6 sem. hrs.</p> <p>Same as major elective</p> <p style="text-align: center;">12 sem. hrs.</p> <p>College Latin in usual sequence</p> <p>12 sem. hrs. in one language</p> |
|---|--|

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. | Mathematics 111-112 | 4 hrs. |
| Business Organization 101.. | 3 hrs. | Geography 101 | 3 hrs. |
| Business Letter Writing 103.. | 2 hrs. | Typing 101, 102..... | 6 hrs. |
| Physical Education | 1 hr. | Hygiene | 1 hr. |
| Orientation | 1 hr. | Electives | 8 hrs. |

YOUNGSTOWN COLLEGE

Second Year

| | | | |
|--------------------------|--------|--------------------------|--------|
| Laboratory Science | 8 hrs. | Speech 115, 116..... | 4 hrs. |
| Psychology 201, 202..... | 6 hrs. | Economics 101, 102..... | 6 hrs. |
| Accounting 201, 202..... | 6 hrs. | Physical Education | 1 hr. |

Third Year

| | | | |
|------------------------------|--------|--------------------------|-----------|
| Education 300 | 3 hrs. | Education 301 | 3 hrs. |
| Education 304 | 3 hrs. | Accounting 308, 309..... | 6 hrs. |
| Business Organization 201... | 3 hrs. | Electives | 8-10 hrs. |
| Shorthand 301 | 4 hrs. | | |

Fourth Year

| | | | |
|---------------------|--------|---------------------|------------|
| English 203 | 3 hrs. | Education 308 | 3 hrs. |
| Education 206 | 3 hrs. | Education 404 | 3 hrs. |
| Education 400 | 2 hrs. | Electives | 12-14 hrs. |
| Shorthand 302 | 4 hrs. | | |

Note 1. Six hours of 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 of eighteen semester hours in Social Science, or to build up a teaching minor of twelve semester hours in History.

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. 100-110 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 | | Math. 114 Analytic Geometry... | 3 hrs. |
| Drawing | 8 hrs. | Physical Education 106 Hygiene. | 1 hr. |
| Math. 111-112 Algebra..... | 4 hrs. | Physical Education 101, 102.... | 1 hr. |

Second Year

| | | | |
|---------------------------------|---------|---------------------------------|--------|
| Math. 201-202 Calculus..... | 10 hrs. | Chem. 209 Qualitative Analysis. | 5 hrs. |
| Physics 211-212 General..... | 8 hrs. | German 101-102 Elementary.... | 8 hrs. |
| Chem. 203 Quantitative Analysis | 5 hrs. | Physical Education 205-206.... | 1 hr. |

Summer

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

CURRICULUMS

Third Year

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

Summer

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

Fourth Year

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

General Option

| | |
|---|--|
| Chem. 415 Electro 4 hrs. Chem. 421 Advanced Organic or C. E. 441 Fluid Flow and Heat Transfer.. 2 hrs. | Chem. 404 Organic Analysis ... 4 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. 427 Ore Dressing 3 hrs. C. E. 424 Metallography, Non-Ferrous 3 hrs. | C. E. 430 Electrometallurgy ... 3 hrs. Electives 6 hrs. |
|--|--|

A total of 150 academic hours are required. The additional elective hours are recommended.

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. M. E. 101, 102 Eng. Drawing.. 8 hrs. Math. 103 Trigonometry..... 3 hrs. M. E. 115 Survey of Engineering 1 hr. Physical Education 101, 102.... 1 hr. | English 101-102 Composition... 6 hrs. Math. 111-112 Algebra..... 4 hrs. Math. 114 Analytic Geometry.. 3 hrs. Physical Education 106 Hygiene. 1 hr. |
|---|---|

Second Year

| | |
|---|--|
| Math. 209-210 Calculus10 hrs. Chem. 211 Qualitative Analysis. 3 hrs. German 101-102 Elementary.... 8 hrs. | Physics 201-202 General.....10 hrs. Chem. 203 Quantitative Analysis 3 hrs. Physical Education 205, 206.... 1 hr. |
|---|--|

Summer

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

Third Year

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

YOUNGSTOWN COLLEGE

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 Laboratory | 2 hrs. | M. E. 412 Electrical Engineering | 3 hrs. |
| M. E. 331 Internal Combustion Engines | 3 hrs. | M. E. 422 Ventilation and Air Conditioning | 3 hrs. |
| M. E. 401 Machine Design | 3 hrs. | Economics | 3 hrs. |
| M. E. 402 Hydraulics | 3 hrs. | Electives | 9 hrs. |

ENGLISH

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

First Year

| | | | |
|-----------------------|----------|--------------------------|--------|
| English 101-102 | 6 hrs. | Bible 104 | 2 hrs. |
| History | 6 hrs. | Physical Education | 1 hr. |
| Mathematics | 4-6 hrs. | Hygiene | 1 hr. |
| Speech 115, 116 | 4 hrs. | Orientalism | 1 hr. |
| Modern Language | 6-8 hrs. | | |

Second Year

| | | | |
|-------------------------------|--------|--------------------------|--------|
| English 203, 204 or 206 | 6 hrs. | Bible 101 | 2 hrs. |
| Modern Language | 6 hrs. | Bible 102 | 2 hrs. |
| Laboratory Science | 8 hrs. | Physical Education | 1 hr. |
| English 309-310 | 6 hrs. | | |

Third Year

| | | | |
|------------------------|--------|-------------------|---------|
| English 312 | 3 hrs. | History 311 | 3 hrs. |
| English 306, 307 | 4 hrs. | History 312 | 3 hrs. |
| English 342 | 3 hrs. | Electives | 16 hrs. |

Fourth Year

| | | | |
|-----------------------|--------|-------------------|---------|
| English 300 | 2 hrs. | English 324 | 3 hrs. |
| English 308 | 3 hrs. | English 315 | 3 hrs. |
| History 211-212 | 6 hrs. | Electives | 15 hrs. |

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. |
| Private Corporations | 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. |

CURRICULUMS

MATHEMATICS—PHYSICS

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

First Year

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

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 | 1 hr. |

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.

MUSIC

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

First Year

| | | | |
|-----------------------|----------|--------------------------|--------|
| Music 101, 102 | 2 hrs. | Biology 101-102 | 8 hrs. |
| Music 103-104 | 4 hrs. | Physical Education | 1 hr. |
| Applied Music | 3 hrs. | Hygiene | 1 hr. |
| English 101-102 | 6 hrs. | Orientation | 1 hr. |
| Modern Language | 6-8 hrs. | | |

Second Year

| | | | |
|-----------------------|--------|--------------------------|--------|
| Music 201-202 | 6 hrs. | Psychology 201 | 3 hrs. |
| Music 203, 204 | 4 hrs. | Psychology | 3 hrs. |
| Modern Language | 6 hrs. | Applied Music | 3 hrs. |
| History 101 | 3 hrs. | Physical Education | 1 hr. |
| History 102 | 3 hrs. | | |

Third Year

| | | | |
|----------------------------|--------|---------------------|--------|
| Music 301, 302 | 4 hrs. | Applied Music | 3 hrs. |
| Music 303, 304 | 6 hrs. | English 315 | 3 hrs. |
| Ethics or Philosophy | 3 hrs. | English 324 | 3 hrs. |
| History 303 | 3 hrs. | Electives | 6 hrs. |

Fourth Year

| | | | |
|---------------------|--------|-----------------|---------|
| Music 401-402 | 6 hrs. | Science | 3 hrs. |
| Applied Music | 3 hrs. | Electives | 19 hrs. |

YOUNGSTOWN COLLEGE

PHILOSOPHY

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

First Year

| | | | |
|---|----------|------------------------------|--------|
| History 101 and 102 or 105, 106 | 6-8 hrs. | Sociology 101 | 3 hrs. |
| Economics 101, 102 | 6 hrs. | Sociology 102 | 3 hrs. |
| French, German, or Mathematics 111-112 | 4-8 hrs. | Physical Education | 1 hr. |
| English 101-102 | 6 hrs. | Hygiene | 1 hr. |
| | | Orientation | 1 hr. |

Second Year

| | | | |
|--|-----------|------------------------------|--------|
| History 311 | 3 hrs. | Psychology 201 | 3 hrs. |
| History 312 | 3 hrs. | Philosophy 203 | 3 hrs. |
| French, German, Physics 201-202, or Chemistry | 6-10 hrs. | Philosophy 205 | 2 hrs. |
| English Literature 203, 204 | 6 hrs. | Physical Education | 1 hr. |

Third Year

| | | | |
|---------------------------------------|--------|--------------------------|--------|
| History 321 | 3 hrs. | Philosophy 301 | 3 hrs. |
| History 322 | 3 hrs. | Philosophy 302 | 3 hrs. |
| English 309-310 | 6 hrs. | Philosophy 305 | 3 hrs. |
| Psychology 302 or Sociology | 3 hrs. | Philosophy 306 | 3 hrs. |
| Biology 101-102 | 8 hrs. | | |

Fourth Year

| | | | |
|-------------------------------|--------|--------------------------|--------|
| Geology | 4 hrs. | Philosophy 307 | 3 hrs. |
| Astronomy | 4 hrs. | Philosophy 308 | 3 hrs. |
| Plato and Aristotle | 3 hrs. | Electives | 3 hrs. |
| Philosophy 202 | 3 hrs. | | |

PRE-LAW

Pre-Law Curriculum

First Year

| | | | |
|---|--------|------------------------------|--------|
| English 101-102 | 6 hrs. | History 102 | 3 hrs. |
| Biology 101-102 or Chemistry 109-110 | 8 hrs. | Modern Language | 8 hrs. |
| History 101 | 3 hrs. | Speech 115-116 | 4 hrs. |
| | | Physical Education | 1 hr. |

Second Year

| | | | |
|---|--------|------------------------------|--------|
| History 201 and 202 or History 211-212 | 6 hrs. | Philosophy 205 | 2 hrs. |
| Political Science 101 | 3 hrs. | Modern Language | 6 hrs. |
| Political Science 102 | 3 hrs. | Electives | 6 hrs. |
| Psychology 201 | 3 hrs. | Physical Education | 1 hr. |

PRE-MEDICINE—PRE-DENTISTRY

The maximum requirements for admission to the leading medical and dental schools of the country are included in the following curriculum, which should be closely adhered to because of the severe competition in gaining admission to such institutions. Only those students with the best possible scholastic record can be recommended for medical and dental study.*

CURRICULUMS

Suggested Curriculum for the Pre-Medical-Pre-Dental Course 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 | 3 hrs. |
| Orientation | 1 hr. | Physical Education | 1 hr. |
| Hygiene | 1 hr. | | |

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 | 1 hr. | | |

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 | 3 hrs. | Biology 401 | 3 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. | | |

Medical Technology

In preparation for Medical Technology (position of "medical technician"), 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, 312, 320, 321, 330, in place of the recommended biological curriculum.

* For the requirements of the individual medical and dental schools and the Registry of Medical Technologists, see the Head of the Department of Biology.

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.

YOUNGSTOWN COLLEGE

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. | Sociology 101 | 3 hrs. |
| Biology 101-102 | 8 hrs. | Physical Education | 1 hr. |
| English 101-102 | 6 hrs. | Hygiene | 1 hr. |
| Psychology 201 | 3 hrs. | | |

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 | 1 hr. |
| French or German..... | 6-8 hrs. | Hygiene | 1 hr. |
| Sociology 101 | 3 hrs. | Oreintation | 1 hr. |

Second Year

| | | | |
|-------------------------------|--------|---------------------------------|--------|
| English 203, 204, or 206..... | 6 hrs. | Psychology 201, 202, or 206.... | 6 hrs. |
| French or German | 6 hrs. | Physical Education | 1 hr. |
| 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. |

COURSES OF INSTRUCTION

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.

Courses marked (offered 1938-39) are offered on alternate years.

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 later courses. This course does not count toward 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.

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.*

YOUNGSTOWN COLLEGE

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. 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 is given to layouts, design, and color combinations.

Three hours credit each semester.

110, 111. **COLOR AND DESIGN**—A course in the study of the principles underlying decorative design, the creating of design, stylizing natural elements to develop design motifs, application of design to practical problems, block printing, batik, weaving, and pottery. The history of the development of design.

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.

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.

Three hours credit each semester.

ART, ASTRONOMY, BIBLE

201, 202. LIFE CLASS—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 great figures in the major arts during the 14th, 15th, and 16th centuries in Italy and their connection with the history of the times. Prerequisite, Art 113-114. *Three hours credit.*

207. HISTORY OF ART—MODERN ART—This course follows the course in the History of Italian Renaissance Art, although either course may be taken separately. After a brief review of the Italian Renaissance, its causes, ideals, and historic background, European and American art from the sixteenth century to the present day will be studied in relation to the history, philosophy, and literature of this period. Prerequisite, Art 113-114. *Three hours credit.*

208-209. ADVANCED MODELING—This course includes the completion of designs in a manner corresponding to practical studio work. Study of the abstract volumes, creative design, and small sketches of the human figure in clay. Prerequisite, Art 103-104. *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. *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.*

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. (Offered 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. *Two hours credit.*

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BIOLOGY

The fundamental courses required in a preparation for professional and research work in Biology, including U. S. Government Civil Service positions, may be obtained in this Department. Three types of major work are available, namely, Botany, Zoology (including Pre-medical, Pre-dental, and Medical Technological study), and a combination of the two.

101-102. GENERAL BIOLOGY—Plants and animals and the principles that underlie their activities. Fee, \$5.00 each semester.

Four hours credit each semester.

201, 202. BOTANY—Course 201, morphology and physiology of plants; course 202, taxonomy and ecology of plants. Prerequisite, Biology 101-102. Fee, \$5.00 each semester.

Four hours credit each semester.

210, 211. ZOOLOGY—Course 210, the invertebrates; course 211, the vertebrates. Prerequisite, Biology 101-102. Fee, \$5.00 each semester.

Four hours credit each semester.

212. ENTOMOLOGY—Introductory study of insects. Prerequisite, Biology 101-102. Fee, \$5.00. (Summer only, Mill Creek Park Laboratory.)

Four hours credit.

220. ANIMAL ECOLOGY—Relation of animals to their surroundings. Prerequisite, Biology 101-102. Fee, \$5.00. (Summer only, Mill Creek Park Laboratory.)

Four hours credit.

230. HUMAN MORPHOLOGY AND PHYSIOLOGY—Structure and functioning of the human organ systems. Prerequisite, Biology 101-102. Fee, \$2.00.

Four hours credit.

301. PLANT PHYSIOLOGY — Plant processes. Prerequisites, Biology 201-202 and Chemistry 109-110 or 111-112. Fee, \$7.00. (Offered 1938-39)

Four hours credit.

310. VERTEBRATE ANATOMY — Comparative study of the structure of vertebrate organ systems. Prerequisite, Biology 210-211. Fee, \$5.00. (Offered 1938-39)

Four hours credit.

311. VERTEBRATE EMBRYOLOGY—Comparative study of the developmental stages of the vertebrates. Prerequisite, Biology 310. Fee, \$5.00. (Offered 1938-39)

Four hours credit.

312. VERTEBRATE CYTOLOGY AND HISTOLOGY—Structure of vertebrate cells and tissues. Prerequisite, Biology 210-211. Fee, \$5.00. (Offered 1938-39)

Four hours credit.

320. BACTERIOLOGY — Introductory study of bacteria. Prerequisites, Biology 201-202 or 210-211 and Chemistry 109-110 or 111-112. Fee, \$7.00.

Four hours credit.

321. PARASITOLOGY—The protozoan, helminth and arthropod parasites of man. Prerequisite, Biology 210-211. Fee, \$5.00.

Four hours credit.

330. MICROTECHNIC—Preparation of plant and animal material for microscopic examination. Prerequisite, Biology 201-202 or 210-211. Fee, \$7.00.

Four hours credit.

340. GENETICS AND EVOLUTION—Plant and animal variation and heredity. Prerequisite, Biology 201-202 or 210-211. Fee, \$2.00.

Four hours credit.

401. SEMINAR—Detailed study of biological principles and research methods in preparation for professional work and graduate study in biology. Open only to biology majors in the senior year. *Two hours credit.*

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 of business a practical working knowledge of contracts, agency, partnerships and corporations. 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. The fundamentals of the law governing business transactions of persons through agents, as well as the formation and operation of partnerships and corporations. *Three hours credit.*

303. BUSINESS LAW—A study of negotiable instruments, including bailments and carriers, sales, negotiable papers, banks, and suretyship. A study of property, covering estates, wills, bankruptcy, 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. *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. *Four 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. *Four 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. The later part of the course is devoted to the biological phases of organic chemistry. For biology majors. Prerequisite, Chemistry 209 or Chemistry 211. *Three hours credit.*
216. ORGANIC CHEMISTRY—Two three-hour laboratory periods each week which includes one discussion period. The work consists of the preparation and study of typical aliphatic and aromatic compounds, experiments of general biochemical nature, and work in blood and urine analysis. Prerequisite or concurrent, Chemistry 215. *Two 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. *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. *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.

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. (Offered 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. (Offered 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. (Offered 1938-39)

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. (Offered 1938-39) *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.*

208. MARKETING—A study of the functions and methods of marketing. The subject is taken up from the point of view of the consumer. A study is made of chain stores, consumers' cooperatives and other rivals of the orthodox retail methods. Special emphasis is placed on the marketing of securities. *Three hours credit.*

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.*

309. LAND ECONOMICS—A study of the fundamental problems of home ownership, forestry, agricultural credit, tenancy, the place of land in our economic life, the services rendered by land, and the principles governing the use of land. Prerequisite, Economics 101. *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

300. 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.*

303. 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.*

304. CLASSROOM ADMINISTRATION, ORGANIZATION, AND MANAGEMENT—A study of problems of classroom control, attendance, organization, curriculum, program, procedure, and of extra-curricular 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 VOCATIONAL 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.*

STATISTICAL METHODS—See Mathematics 205.

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. 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 206, 300, and Speech 115. Course 206 is required of all students who plan to teach high school English, and may be substituted for 204.

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. Required of Freshmen.

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.

206. SURVEY OF AMERICAN LITERATURE—Survey of the history, development, and types of American literature, with reference to trends and background. Prerequisite, English 101-102.

Three hours credit.

212, 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. It will be offered in alternate years, beginning September, 1937. Prerequisite, English 101-102.

Three hours credit each semester.

300. HISTORY OF THE ENGLISH LANGUAGE—A survey of the development of the language from its first literary forms to the present, with emphasis on changes in grammar, vocabulary, and other details. Prerequisites, English 203, 204.

Two hours credit.

306, 307. ROMANTIC PERIOD—First semester: Prose—Lamb, Hazlett, Hunt, DeQuincey, and Landor. Second semester: Poetry—Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Prerequisite, English 101-102. (Offered 1938-39)

Two hours credit each semester.

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308. VICTORIAN LITERATURE—A survey of writings of Carlyle, Ruskin, Tennyson, Browning, Matthew Arnold, and other writers of the period. Prerequisite, English 101-102. *Three hours credit.*

309-310. 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.*

312. SHORT STORY—An appreciative reading course with analysis of present-day types and models stressing contemporary trends. Prerequisite, English 101-102. *Three hours credit.*

315. CONTEMPORARY POETRY—An appreciative study of the field of modern poetry since 1890. Emphasis is placed on recent trends and ideals of representative English, Irish, and American poets. Prerequisite, English 101-102. *Three hours credit.*

316. MODERN DRAMA SINCE 1890—A survey of the field of modern drama, particularly the one-act play. Emphasis on modern play writing and presentation requirements, English and American. Prerequisite, English 101-102. *Three hours credit.*

324. THE NOVEL—A study of the history and development of the novel in England and America with special emphasis on the field since 1890. Prerequisite, English 101-102. *Three hours credit.*

327. RISE OF AMERICAN MAGAZINES—The history and development of magazines in America from the earliest forms to those of the present day—the "Annuals," *Godey's Lady's Book*, the "Yellowbacks," the "Quality Group," specialized magazines, and trade journals. Advertising, make-up, and policy. Prerequisite, English 101-102. *Three hours credit.*

342. CREATIVE WRITING—A study of short story, verse, and magazine article writing with emphasis upon technique and practice. Individual conferences. The marketing of manuscripts is fully discussed. Prerequisite, English 101-102. *Three hours credit.*

400. PRO-SEMINAR—Designed for seniors majoring in English. The course is based upon individual investigation and gives an introduction to the methods and technique of graduate study in the field of English. Prerequisite, special approval. *Two hours credit.*

Speech

115, 116. FUNDAMENTALS OF SPEECH—This course aims to develop self-expression through the medium of mind, body, and voice. The student learns properly to co-ordinate his mental and physical being. He then applies this learning to the oral interpretation of literature and his own thoughts. The second half of the course will be devoted to the study and practice of extemporaneous speaking and parliamentary law. *Two hours credit each semester.*

215-216. COLLEGE DEBATING—The course is a thorough study of two or three questions for intercollegiate debate, with practice in speaking. Credit is on the basis of knowledge of the subject rather than upon fluency or glibness in presentation of imperfect knowledge. Credit may therefore be earned repeatedly in this course by those wishing to participate in debate. Prerequisites, English 115, 116. *Two hours credit each semester.*

219-220. PLAY PRODUCTION—A practical laboratory course offered primarily for the training of students to direct dramatic activities in high schools. The first semester will be devoted to a study of organization and duties of the production staff, of the designing, making, and painting of scenery; of lighting, costuming, and make-up. The second semester will be given to methods of production and acting. *Two hours credit each semester.*

SPEECH, GEOLOGY, HISTORY

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.

320. ADVANCED INTERPRETATIVE READING—This course is offered for those who are fitting themselves for teaching, for platform work, or for any work along histrionic lines. Students entering this course may be asked to participate in student recitals.

Two hours credit.

FRENCH

(See Modern Languages)

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.

Two hours credit each semester.

GERMAN

(See Modern Languages)

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.

Four 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.

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.

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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. (Offered 1938-39) *Three hours credit.*

303. FRENCH REVOLUTION—A study of the French Revolution and Napoleonic era from 1789 to 1815. (Offered 1938-39) *Three hours credit.*

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. Prerequisite, History 101 and 102, or 105, 106. *Three hours credit.*

ITALIAN

(See Modern Languages)

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.

LAW

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.

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
Conflict of Laws

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

WINTER QUARTER

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

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

SPRING QUARTER

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

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

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 principal, and torts between agent and third parties. *Two hours credit.*

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. *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. *Four hours credit.*

LAW

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 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. *Two hours credit.*

MORTGAGES—Forms, debts, foreclosures, redemption, sales, writ of restitution. *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.*

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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.

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.

LAW, MATHEMATICS

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.

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.

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.

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

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.

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.

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205. STATISTICAL METHODS—A course embodying what is considered to be the minimum amount of mathematics required by students of biology and education. Construction and interpretation of graphs, a study of functional relationships, logarithms, rates of growth, correlation, etc. Credit in Education will be given for this course if desired.

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.

Two or three hours credit.

314. ANALYTIC MECHANICS—A mathematical treatment of problems in statics and dynamics of particles and rigid bodies. Prerequisites, Mathematics 210 and Physics 201.

Three hours credit.

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

Two or three hours credit.

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.

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.

Three hours credit.

MODERN LANGUAGES

French

101-102. ELEMENTARY FRENCH—Fundamental principles of grammar, drill in pronunciation through the use of phonetic characters, and comprehension exercises based on the extensive reading of simple texts.

Four hours credit each semester.

203. INTERMEDIATE FRENCH—Modern short stories are read and discussed in French. Grammar is reviewed in connection with elementary composition. 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.

MODERN LANGUAGES

305. SURVEY OF FRENCH LITERATURE TO ROUSSEAU—

A general introductory course with principal emphasis placed on writers and tendencies of the seventeenth and eighteenth centuries. (Offered 1938-39)

Three hours credit.

306. SURVEY OF FRENCH LITERATURE SINCE ROUSSEAU

—A continuation of French 305 dealing with the progress of French literature since the beginnings of the Romantic Period. (Offered 1938-39)

Three hours credit.

311. PROSE WRITERS OF THE EIGHTEENTH CENTURY—

A study of the doctrines and tendencies of French thought of the eighteenth century as illustrated in the writings of Voltaire, Diderot, Rousseau, and others.

Three hours credit.

312. MODERN FRENCH POETRY—A study of the three principal movements of nineteenth century poetry: Romanticism, le Parnasse, and Symbolism, illustrated by interpretative lectures. Selected poems will be studied by the method of Explication de Textes.

Three hours credit.

313. COMPARATIVE GRAMMAR OF THE ROMANCE LANGUAGES—The morphology and syntax of Modern French will be studied in connection with those of any other Romance language with which the student may be familiar. A knowledge of some Italian dialect may profitably be turned to account in this course.

Three hours credit.

NOTE—The following additional courses will be offered in 1939-1940 and subsequently:

307. MODERN FRENCH DRAMA

308. CLASSICAL FRENCH DRAMA

309. THE NOVEL IN FRANCE

310. CONTEMPORARY FRENCH LITERATURE

For all 300 courses the prerequisite is French 204 or an ability to read French for literary appreciation.

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.

Four 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.

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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.

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.

Three hours credit each semester.

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.

Four 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 201. 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.

MUSIC

NOTE: For more complete information concerning the School of Music, write for special Music Bulletin.

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.

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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.

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.

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.

MUSIC, ORIENTATION, PHILOSOPHY

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.

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.*

301. **HISTORY OF PHILOSOPHY**.—The development of philosophic thought from the time of the early Greeks to the end of the Middle Ages. (Offered 1938-39) *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. (Offered 1938-39) *Three hours credit.*

303, 304. **HISTORY OF PHILOSOPHY**.—A condensed course covering the work of Philosophy 301 and 302. *Two hours credit each semester.*

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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. (Offered 1938-39)

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. (Offered 1938-1939)

Three hours credit each semester.

310. CIVILIZATION AND ETHICS—A condensed course covering the material of Philosophy 307, 308.

Three hours credit.

PHYSICAL EDUCATION

101, 102. PHYSICAL EDUCATION (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-half hour credit each semester.

103, 104. PHYSICAL EDUCATION (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-half hour credit each semester.

106. HYGIENE—One lecture each week with outside readings. Required of all Freshmen.

One hour credit.

205, 206. ADVANCED PHYSICAL EDUCATION (Men)—Three hours each week. A continuation of courses 101, 102. Required of Sophomores.

One-half 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-half hour credit each semester.

PHYSICS AND MECHANICAL ENGINEERING

Under Curriculums 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 is just being 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.

PHYSICS AND MECHANICAL ENGINEERING

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. *One hour 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. (Offered 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 — One recitation and nine hours of field work per week. 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. (Offered Summer, 1938.) *Three hours credit.*

303. ELECTRICITY AND MAGNETISM — A critical study of the physical laws underlying electrical theory. Prerequisites, Physics 202 and Mathematics 210. (Offered 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 210. *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. *Three hours credit.*

324. APPLIED MECHANICS — Statics and Kinematics. Force systems center of gravity, laws of motion of a particle. Prerequisite, Mathematics 210; Physics 201 desirable. *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. (Offered 1938-39) *Three hours credit.*

327. FLUID MECHANICS — Hydrostatics and hydrodynamics. (Offered 1938-39) *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. (Offered 1938-39) *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.*

YOUNGSTOWN COLLEGE

POLITICAL SCIENCE

101. INTRODUCTION TO POLITICAL SCIENCE—An introduction to American political life. *Three hours credit.*

102. AMERICAN GOVERNMENT—A survey of federal, state, city, and county governments. *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 rational 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.*

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 development, faith, worship, and allied dynamics of personality, activating the individual and society. 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.*

PSYCHOLOGY, SECRETARIAL STUDIES, SOCIOLOGY

306. PERSONALITY AND MENTAL HYGIENE—A study of personality, its characteristics and factors, its development and functioning, with collateral study of mental adjustments, as a hygiene for the development of a dynamic, happy, and useful personality. Prerequisite, Psychology 201. *Two 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.*

SECRETARIAL STUDIES

101, 102. 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 each semester.*

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

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.*

202. THE FAMILY—A study of the family in its different forms and its problems as an institution in our current life. *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.*

YOUNGSTOWN COLLEGE

DEGREES CONFERRED, 1936

Bachelor of Arts

| | |
|----------------------------|----------------|
| Aley, Robert George | Youngstown |
| Allison, John Francis | Youngstown |
| Bachop, William Earl | Youngstown |
| Bagnall, Marietta Tod | Youngstown |
| Best, William Hutchinson | Youngstown |
| Brentin, Nicholas M. J. | Bessemer, Pa. |
| Chappell, Winnifred Mack | Burghill |
| Codrea, Raymond | Youngstown |
| Creed, Helen Margaret | Hubbard |
| D'Onofrio, Michael Anthony | Lowellville |
| Donahue, Edward Bernard | Youngstown |
| Fisher, Joseph Carmen | Lowellville |
| Gambrel, Marilouise | Youngstown |
| Gogesch, Matilda R. | Youngstown |
| Herr, Julia Henderson | Youngstown |
| Humphrey, Edward Schofield | Youngstown |
| Johnson, Edith Isabella | Youngstown |
| Jenkins, Vera Rachel | Youngstown |
| Kenaston, Herbert Harold | Youngstown |
| MacDonald, Leah Moyer | Youngstown |
| McCracken, Chester W. | North Jackson |
| Macejko, Theodore Thomas | Struthers |
| Malmer, Ann | Youngstown |
| Margo, Joseph N. | Youngstown |
| Mastriana, Anne Marie | Poland |
| Opritz, Daniel, Jr. | Youngstown |
| Pear, Violet F. | Youngstown |
| Pleger, Mary Louise | Campbell |
| Powers, Gene De Weese | Canfield |
| Reid, Jean Lucille | Youngstown |
| Rice, Elizabeth | Youngstown |
| Robinson, Helen Roberta | Hubbard |
| Schoenhard, George Henry | Youngstown |
| Shaw, Lois Belle | Canfield |
| Smith, Earl Ousborn | Youngstown |
| Strait, Dennis E. | Youngstown |
| Snyder, Helene Alice | Girard |
| Tartan, Elvira Antoinette | Youngstown |
| Vojnovich, Charles | Campbell |
| Wagner, Stewart Gill | Youngstown |
| Walters, Roy Eugene | Youngstown |
| Wike, Eleanor Jean | Youngstown |
| Wildman, Glenn O'Neal | Niles |
| Yasechko, Joseph Steve | New Middletown |

Title of Associate in Business Administration

| | |
|-------------------|-------------|
| Averbach, Abraham | Youngstown |
| Culcasi, James | Sharon, Pa. |
| Evans, William | Sharon, Pa. |
| Phelan, William | Sharon, Pa. |
| Seiman, Harold | Warren |
| Zeigler, Charles | Youngstown |

Bachelor of Laws

| | |
|-----------------|------------|
| David Reich | Youngstown |
| Robert Sullivan | Youngstown |

REGISTER OF STUDENTS

1936-1937

Freshmen

Agnone, Betty, Youngstown
Alexander, Lawrence, Poland
Allen, Robert, Sharon, Pa.
Allen, Sallie, Youngstown
Anderson, Robert, Youngstown
Anderson, Thomas, Brookfield
Andre, Stephen, Youngstown
Armes, Anna, Youngstown
Arthur, Thelma, Youngstown
Ashdown, Alfred, Youngstown
Austin, Bernice, Youngstown
Axtmann, Charles, Youngstown
Baker, Theodore, Youngstown
Baker, William, Youngstown
Bakich, Michael, Youngstown
Balmuth, Bernard, Youngstown
Barth, Rudolph, Youngstown
Bates, Fred, Cleveland
Batta, Blaine, Youngstown
Baumgardner, Carl, Youngstown
Beans, John, Youngstown
Beard, Grant, Youngstown
Beatty, Charles, Youngstown
Bell, Raymond, Sharon, Pa.
Bennett, Mary, Youngstown
Bernat, Donald, Youngstown
Binder, William, Youngstown
Biro, Albert, Youngstown
Black, Annie, Youngstown
Black, Edward, Youngstown
Black, James, Youngstown
Bloom, Burton, Youngstown
Bode, Dorothy, Youngstown
Bode, Elizabeth, Youngstown
Bokesch, Elmer, Youngstown
Bopp, Calvin, Youngstown
Booker, Simeon, Youngstown
Bossert, Winifred, Youngstown
Bott, John, Youngstown
Bousgas, Anthony, Youngstown
Boyer, Plummer, Youngstown
Bozdog, John, Hubbard
Brady, James, Youngstown
Brashear, Genevieve, Youngstown
Breckner, George, Youngstown
Bresnahan, William, Struthers
Bretz, Louise, Youngstown
Brick, Thomas, North Lima
Brooks, Florence, Youngstown
Brown, Betty, Youngstown
Brown, Leo, Youngstown
Brown, Margaret, McDonald
Brown, William, Poland
Buck, Victor, Youngstown
Burrows, Austin, Lakin, Kansas
Cailor, Frank, Youngstown
Callis, Robert, Youngstown
Campione, George, Campbell
Carr, Robert, Youngstown
Carney, Charles, Campbell
Cazan, Mathew, Sharon, Pa.
Cazan, Sylvia, Sharon, Pa.
Centofanti, Frank, Youngstown
Chappel, Frederick, Hartford
Chill, James, New Castle, Pa.
Chudakoffi, Eli, Youngstown
Clark, Chris, Niles
Clark, Robert, Warren
Colgan, Eleanor, New Castle, Pa.
Corean, John, Youngstown
Corrado, Joseph, Youngstown
Cossler, Virginia, Youngstown
Craig, Charles, Youngstown
Craig, William, Youngstown
Crawford, William, Niles
Cronin, John, Youngstown
Cretella, Louis, Girard
Culcasi, Philip, Youngstown
Cummings, Florence, Youngstown
Davies, Emily, Lowellville
Davis, Charles, Warren
Davis, Donald, Youngstown
Davis, John, Youngstown
Dean, Virginia, Youngstown
Deas, Alexander, Youngstown
Deckant, Frank, Youngstown
DelRosso, Tito, New Castle, Pa.
D'Erma, Dan, Youngstown
DeLucia, Anthony, Youngstown
Denny, Clarence, Pulaski, Pa.
Diacandrew, Michael, Youngstown
Diehl, Harry, Niles
Dight, Olive, Mercer, Pa.
DiPiero, Anthony, Youngstown
Dixon, Donald, Sharpville, Pa.
D'Orsi, Anthony, Youngstown
Downey, Leo, Sharon, Pa.
Doyle, Jack, Hubbard
Dunn, Roger, Youngstown
Dustman, William, Warren
Dusza, John, Warren
Dyer, Fred, Youngstown
Eckert, Raymond, Youngstown
Ellis, Joe, Youngstown
Emch, Paul, Poland
Enyeart, William, Girard
Ermert, Eric, Lowellville
Evans, Herbert, Poland
Ewing, James, Youngstown
Fairbanks, Edith, Youngstown
Fenton, Chester, Lowellville
Feren, Ida, Youngstown
Findlan, Joe, Youngstown
Findley, Margaret, Poland
Fine, Fannie, Youngstown
Flesse, Charles, Youngstown
Foster, Paul, Youngstown
Fetter, Carl, Youngstown
Feeley, Jack, Youngstown
Friedman, Francis, Youngstown
Fullerman, Clarence, Youngstown
Furrie, Donald, Youngstown
Fusco, Josephine, Youngstown
Gagy, Ben, Youngstown
Galich, Joseph, Campbell
Giardullo, Rocco, Youngstown
Gilson, Albert, Youngstown
Golasky, Frank, Masury
Grande, Frank, Farrell, Pa.
Grafinger, Louis, Sharon, Pa.
Graham, George, Youngstown
Grant, Robert, Youngstown
Gray, John, West Middlesex, Pa.
Grimm, Warren, Hubbard
Gruenwald, John, New Bedford, Pa.
Guesman, Glessner, Youngstown
Guidosh, George, Youngstown
Hackett, Neil, Struthers
Harris, Frank, Hubbard
Hardman, John, Warren
Harroff, John, Youngstown
Harry, Richard, Youngstown

YOUNGSTOWN COLLEGE

Hawkins, Robert, Youngstown
 Hayes, Berkley, Youngstown
 Haynes, Floyd, Youngstown
 Haynes, Lloyd, Youngstown
 Heckman, Charles, Youngstown
 Henderson, Harold, Sharpsville, Pa.
 Heid, Henry, Youngstown
 Hernan, Francis, Youngstown
 Hewitt, Robert, Youngstown
 Hibler, Avis, Youngstown
 Higgins, Mary P., Girard
 Hilb, Lawrence, Warren
 Hingst, Elbert, Youngstown
 Hitter, Martin, Youngstown
 Hnat, Charles, Masury
 Hodge, Virginia, Youngstown
 Holiday, Annette, Campbell
 Holmes, Gerald, Youngstown
 Hopkins, Dorothy, Leavittsburg
 Horning, Vincent, Youngstown
 Hughes, Richard, Youngstown
 Hoskins, William, Youngstown
 Hunter, Raymond, Youngstown
 Hutch, John, Youngstown
 Inglis, Lorena, Youngstown
 Ingorvate, Harry, Campbell
 Jackson, Richard, Youngstown
 Jacobson, Carl, Youngstown
 James, Reese, Youngstown
 Jennings, Marty, Niles
 Johnson, Arthur, Youngstown
 Johnson, Dolores, Youngstown
 Johnson, Paul, Youngstown
 Johnson, Pauline, Struthers
 Jones, Edmund, Youngstown
 Jones, Ralph, Youngstown
 Jones, Wilbur, Youngstown
 Jones, William, Youngstown
 Karhu, Leonard, Warren
 Karr, Nicholas, Youngstown
 Kern, Brunetta, Canfield
 Keyser, Wendell, Warren
 Kieser, John, Youngstown
 King, Gordon, Youngstown
 Kick, Luther, Youngstown
 King, Richard, Youngstown
 Kikel, Josephine, Youngstown
 Kilbuck, Elizabeth, Hood River, Oregon
 King, Charles, Youngstown
 Kirner, Mary, Youngstown
 Kish, Joseph, Youngstown
 Klein, Bernard, Youngstown
 Klepfer, Clarence, West Middlesex, Pa.
 Kling, Robert, Youngstown
 Knouss, Caroline, Youngstown
 Komara, Stephen, Struthers
 Kopicenski, Paul, Youngstown
 Kriger, Bernard, Youngstown
 Kubico, Michael, Struthers
 Kurtz, Joseph, Youngstown
 LaCivita, Ralph, Youngstown
 Larson, Ray, Youngstown
 Levine, Abe, Youngstown
 Lewis, Devereaux, Sharon, Pa.
 Lewis, Robert, Youngstown
 Lewis, Russell, Youngstown
 Lipsick, Abraham, Youngstown
 Lotz, Ann, Youngstown
 Lozier, Dorothy, Youngstown
 McCarty, Lila, Youngstown
 McDermott, Donald, Warren
 McDevitt, Frank, Youngstown
 McFerren, Bernard, Youngstown
 McGinnis, Eugene, North Lima
 McLain, Ruby, Youngstown
 McLean, James, Campbell
 Mahar, Neva, Youngstown
 Major, Albert, Youngstown
 Malkin, Myron, Youngstown
 Manning, George, Sharon, Pa.
 Marchiori, Ed., Youngstown
 Martin, Anita, Youngstown
 Martin, Julius, Youngstown
 Martin, Rowena, Youngstown
 Masaryk, Joseph, Burghill
 Mather, Richard, Poland
 Mathias, Richard, Youngstown
 May, Joseph, Youngstown
 Mechling, John, New Castle, Pa.
 Mencer, Mary, Lowellville
 Mentzer, Neil, Struthers
 Merwin, Grace, Newton Falls
 Meyer, Allan, Youngstown
 Miller, Fred, Burghill
 Miller, James, Youngstown
 Miller, Lawrence, Youngstown
 Moliterno, Anthony, Girard
 Mondrut, George, Niles
 Morley, Robert, Youngstown
 Morrow, Robert, Youngstown
 Moyer, Frances, Youngstown
 Mullane, Daniel, Youngstown
 Mullane, Robert, Youngstown
 Mullane, William, Youngstown
 Munn, William, Youngstown
 Murphy, Robert, Youngstown
 Murray, Charles, Warren
 Murray, John, Sharon, Pa.
 Neimark, Harry, Lowellville
 Nelson, Arnold, Warren
 Nelson, Dale, Youngstown
 Nelson, William, Warren
 Nerone, Albert, Campbell
 Nestich, Thomas, Youngstown
 Niemalo, Reino, Sharon, Pa.
 Noble, Norman, Youngstown
 Northall, John, Youngstown
 Olson, Anna, Youngstown
 Ondash, Paul, Youngstown
 Orzechowski, Alexander, Youngstown
 Ostroff, David, Youngstown
 Panessa, Anne, Youngstown
 Palombo, Louis, Youngstown
 Pape, John, Youngstown
 Pastor, Frank, Niles
 Patrick, Winifred, Youngstown
 Penman, John, Hubbard
 Pettit, William, Youngstown
 Pittinger, Leland, East Liverpool
 Pfau, William, Youngstown
 Pharmer, William, Youngstown
 Phillips, DeWitt, Youngstown
 Phillips, John, North Lima
 Prior, Florence, Youngstown
 Purnell, Walter, Youngstown
 Quinlan, William, Youngstown
 Ramsey, Victor, Youngstown
 Randolph, Thomas, Youngstown
 Ray, Kennedy, Youngstown
 Rehbogen, Andrew, Youngstown
 Rhodes, Nellie, Youngstown
 Richards, Edwin, Youngstown
 Richards, Mary, Youngstown
 Riddell, Robert, Youngstown
 Rider, Ruth, Youngstown
 Rogers, George, Salem
 Ropp, Elizabeth, New Bedford, Pa.
 Rosapepe, Carl, Youngstown
 Rotar, John, Campbell
 Roth, John, Youngstown
 Rowney, Ray, Youngstown
 Rucker, Lewis, Youngstown
 Rudersdorf, Gordon, Youngstown
 Russell, Jack, Youngstown

REGISTER OF STUDENTS

Russo, Dominic, Youngstown
 Samuels, Joe, Youngstown
 Sarbu, John, Niles
 Saunders, Robert, Youngstown
 Sause, Herbert, Youngstown
 Sause, William, Youngstown
 Scarfo, Sam, Campbell
 Schaeffer, John, Youngstown
 Schaffer, Jack, Youngstown
 Scheetz, William, Youngstown
 Scherner, Morris, Farrell, Pa.
 Schiavona, James, Youngstown
 Schinker, John, Youngstown
 Schinker, William, Youngstown
 Schoenfield, Dale, Youngstown
 Seabrooks, Cyrus, Warren
 Sells, James, Warren
 Semple, William, Youngstown
 Sepic, John, Youngstown
 Serey, William, Masury
 Shaffer, Robert, Youngstown
 Shale, Paul, Youngstown
 Shaw, James, Brookfield
 Shenosky, Pete, Warren
 Shiffler, Harvey, New Castle, Pa.
 Shotts, Robert, Youngstown
 Shoup, Audley, Youngstown
 Shoup, Ronald, Clarion, Pa.
 Silliman, Robert, Youngstown
 Sittig, Helen, Youngstown
 Skeggs, Leonard, Poland
 Slaughenaupt, Hugh, Youngstown
 Slavin, Bessie, Youngstown
 Smith, Frederick, Youngstown
 Smith, Howard, Youngstown
 Smith, John, Youngstown
 Smith, Paul, Youngstown
 Smuvely, Beatrice, Youngstown
 Snyder, Margaret, Youngstown
 Solomon, Joseph, Youngstown
 Somatic, John, Wheatland, Pa.
 Soos, Anna, Youngstown
 Sowers, Jesse, Sharon, Pa.
 Sovik, Elmer, Youngstown
 Spagnola, Raymond, Campbell
 Spiegle, Walter, Youngstown
 Spratzar, Ivan, Warren
 Stambaugh, William, Girard
 Stambor, Leo, Youngstown
 Starr, Donald, Youngstown
 Stavich, George, Youngstown
 Steele, George, East Liverpool
 Steinchak, Edward, Brookfield
 Stephenson, Iona, Girard
 Sterling, Frank, Youngstown
 Stewart, John, Youngstown
 Stewart, Richard, Youngstown
 Stoops, Alfred, Youngstown
 Stotler, James, Youngstown
 Stroia, George, Youngstown
 Stucki, Johanna, Youngstown

Swager, Eugene, Youngstown
 Swain, Robert, Warren
 Syak, Charles, Girard
 Takach, Elizabeth, Youngstown
 Tate, John, Youngstown
 Tekushan, Nicholas, Youngstown
 Thomas, Della, Youngstown
 Thomas, Robert, Youngstown
 Thomas, Willard, Youngstown
 Thomas, William, Sharpsville, Pa.
 Thompson, George, Youngstown
 Thompson, Paul, Youngstown
 Thorne, Edward, Youngstown
 Thorne, John, Youngstown
 Tierney, Martin, Youngstown
 Tsarroke, Florence, Youngstown
 Tsvetanoff, Alex, Campbell
 Ungar, Daniel, Youngstown
 VanAuker, Paul, Youngstown
 VanBrocklin, Loren, Youngstown
 VanBrocklin, Virginia, Youngstown
 Vaschak, Olga, Youngstown
 Vaughan, Arthur, Salem
 Verschoor Marie, Youngstown
 Villani, Frank, Youngstown
 Wagman, Jack, Youngstown
 Wagner, Woodrow, Youngstown
 Walsh, William, Youngstown
 Walters, Francis, Youngstown
 Walters, George, Youngstown
 Ward, Mary, Youngstown
 Ward, Thomas, Youngstown
 Washington, Regina, Youngstown
 Wasley, Elton, Sharpsville, Pa.
 Watkins, Cameron, Youngstown
 Welsh, Robert, Youngstown
 Wentz, Robert, Sharon, Pa.
 Wettich, Stanton, New Castle, Pa.
 Wilcher, Elizabeth, Youngstown
 Wilk, Frank, Masury
 Williams, James, Youngstown
 Williams, John, Youngstown
 Williams, Robert C., Youngstown
 Williams, Kenneth R., Youngstown
 Witt, Martin, Youngstown
 Wolfe, David, Youngstown
 Wolfe, Edith, Youngstown
 Wright, Raymond, Warren
 Wroblewski, Walter, Youngstown
 Wuich, Nick, Niles
 Wymer, June, Poland
 Yash, George, Struthers
 Yashnik, Steven, Brookfield
 Yavorsky, Edward, Youngstown
 Yentch, Arba, Youngstown
 Young, Thomas, Youngstown
 Zander, Paul, Youngstown
 Zedaker, Louise, Youngstown
 Zeigler, Allan, Youngstown
 Zimmerman, John, Youngstown
 Zinner, Marvin, Youngstown

Sophomores

Alexander, Roy, Youngstown
 Austin, Robert, Warren
 Bailey, John, Warren
 Baker, Elbert, Niles
 Barson, Emil, Canton
 Bartolo, William, Youngstown
 Baugh, Robert, Youngstown
 Beckman, William, Youngstown
 Billman, Charles, Youngstown
 Birch, Homer, Struthers
 Black, Mary Louise, Struthers
 Brittain, Ruth, Girard
 Brown, Richard, Youngstown

Carlson, Arthur, Youngstown
 Cassano, Stella, Youngstown
 Cavanaugh, Robert, Youngstown
 Chance, Dan, Youngstown
 Chapinsky, Walter, Youngstown
 Clair, Robert, Niles
 Cline, Mary Margaret, Girard
 Coates, Christine, Youngstown
 Collins, Marion, Youngstown
 Coney, Otis, Youngstown
 Conrad, Melvin, Youngstown
 Conti, Roger, Lowellville
 Conway, Billie Sue, Struthers

YOUNGSTOWN COLLEGE

Daleske, Ronald, Youngstown
 Datko, John, Youngstown
 Davies, Robert, Youngstown
 Davis, Zylpha, Youngstown
 Davison, Louis, Youngstown
 Degnan, James, Leetonia
 Devine, Derwent, Struthers
 Dixon, Phoebe, Youngstown
 D'Onofrio, Lewis, Lowellville
 Douthitt, Howard, Youngstown
 Edwards, Roy, Hubbard
 Esterly, Jean, Columbiana
 Evans, Ellen, Youngstown
 Filips, Vincent, Youngstown
 Fine, Raymond, Youngstown
 Flynn, Joseph, Youngstown
 Formicelli, Arthur, Youngstown
 Frank, Arthur, Youngstown
 Frederick, Betty, Youngstown
 Furlong, Leo, Youngstown
 Gangwere, George, Girard
 Gerber, Erna, East Liverpool
 Gifford, Helen, Youngstown
 Gill, Ruth, Youngstown
 Goms, Eugene, Warren
 Gondel, Thomas, Youngstown
 Grandmontagne, Robert, Youngstown
 Greenwood, Samuel, Youngstown
 Grizinski, Ted, Campbell
 Groves, Myron, Youngstown
 Gubbins, William, Youngstown
 Gura, Elizabeth, Struthers
 Hackett, Margaret, Youngstown
 Harness, Lillian, Youngstown
 Harris, Edgar, Girard
 Hart, Vaughn, Youngstown
 Horner, Virginia, Youngstown
 Huskin, Richard, Struthers
 Hussey, Coletta, Youngstown
 Inglis, Norman, Youngstown
 Johnson, Hildur, Youngstown
 Jones, Katherine, Lowellville
 Jones, Miriam, Youngstown
 Katsaras, Peter, Campbell
 Kenney, Joseph, Youngstown
 Kirkner, Norbert, Youngstown
 Kodis, John, Youngstown
 Kovach, Dazo, Campbell
 Lane, Adolphe, Youngstown
 Lebio, Joseph, Youngstown
 Leighninger, Robert, Youngstown
 Levoff, Harold, Youngstown
 Linton, William, Salem
 Litvin, William, Youngstown
 Lunge, Bette, Youngstown
 MacBride, Margaret, Hubbard
 McBride, Wilbert, Youngstown
 McKee, James, Sharon, Pa.
 Mackil, Dave, Youngstown
 Matasy, John, Youngstown
 Mattern, Ethel, Youngstown
 Meenachan, Joseph, Youngstown
 Morgan, Sarah, Youngstown
 Moore, Charles, Sharon, Pa.
 Moore, Francena, Struthers
 Morris, Vincent, Girard
 Morrow, James, Youngstown
 Mounts, Daniel, Youngstown
 Muretic, Francis, Campbell
 Nord, Lester, Bessemer, Pa.
 Norton, Anastasia, Youngstown
 Nuth, James, Youngstown
 Oakley, Milton, Youngstown
 Obenauf, Frederick, Youngstown
 Olds, Margaret, Youngstown
 O'Neil, James, Youngstown
 Osgood, Paul, Youngstown
 Parmenter, Marion, Youngstown
 Perkins, Louise, Youngstown
 Pisani, Almond, Youngstown
 Powell, William, Youngstown
 Prescott, David, Youngstown
 Prezioso, Angelo, Youngstown
 Pugh, Harry, Youngstown
 Riggie, Dorothy, Youngstown
 Ritter, Fred, Youngstown
 Roberts, Thompson, Struthers
 Rock, Charles, Youngstown
 Rosenberger, Gerald, Youngstown
 Rudjak, Joseph, Campbell
 Russo, Philomena, Youngstown
 Sanny, Max, Youngstown
 Sargent, Robert, Youngstown
 Scruggs, William, Youngstown
 Shirock, Irma, Girard
 Shirock, Robert, Girard
 Sigler, James, Cortland
 Slauchenhaupt, Elizabeth, Youngstown
 Slessman, Dale, Youngstown
 Smith, Gordon, Youngstown
 Smith, William, Youngstown
 Snyder, Olive, Hubbard
 Sopranko, John, Youngstown
 Stamper, Ivan, Niles
 Stanley, Esther, Canfield
 Stewart, Frank, Youngstown
 Sylak, Stanley, McDonald
 Tavalario, James, Youngstown
 Taylor, Robert, Youngstown
 Thexton, George, Youngstown
 Thomas, Charles, Niles
 Thomas, Richard, Youngstown
 Thompson, Ernest, Pulaski, Pa.
 Thornton, Thomas, Youngstown
 Thrasher, Laura, Youngstown
 Turner, James, Youngstown
 Tumbling, William, Youngstown
 Uhrain, Michael, Poland
 VanCourt, Woodrow, Mineral Ridge
 Villani, Joseph, Youngstown
 Vinski, Paul, Ellwood City, Pa.
 Vivo, Anthony, Youngstown
 Walsh, Rose, Youngstown
 Weir, Robert, Warren
 Weiss, Opal, Youngstown
 Welker, Doris, Youngstown
 Weller, Robert, Youngstown
 Westfall, Henry, Niles
 Young, Clifford, Hubbard
 Zebroski, Jean, Sharon, Pa.
 Zellers, Charles, Columbiana
 Zerella, Arthur, Youngstown
 Zerella, Emil, Youngstown

Juniors

Agnone, Madeline, Youngstown
 Alex, Paul, Youngstown
 Andrasko, Joseph, Youngstown
 Atkin, Walter, Warren
 Atkinson, Mabel, New Castle, Pa.
 Bandy, Howard, Youngstown
 Barlett, John, Campbell
 Barnes, James, Youngstown
 Bentfield, Fred, Youngstown
 Blair, James, Youngstown
 Broderick, Nell, Youngstown
 Brown, Walter, Youngstown
 Burton, Margaret, Youngstown
 Byers, Charles, Youngstown

REGISTER OF STUDENTS

Cailor, John, Youngstown
 Carney, Thomas, Youngstown
 Coates, Rex, Warren
 Cooper, Betty, Struthers
 Costarella, Adam, Girard
 Danford, Charles, Niles
 Davis, Thomas, Youngstown
 DeBartolo, James, Youngstown
 D'Orsi, Albert, Youngstown
 Devine, Dennis, Struthers
 Devine, Sylvanus, Struthers
 Dunn, Margaret, Youngstown
 Dyer, Bernice, Youngstown
 Dyer, Hibbard, Youngstown
 Eckert, Wilford, Youngstown
 Elser, Gaïen, North Lima
 Engle, John, Youngstown
 Fless, Max, Youngstown
 Fedor, Sam, Hubbard
 Frank, Melvin, Youngstown
 Frech, Isabel, Youngstown
 Friedman, Donald, Youngstown
 Gambrel, Francis, Youngstown
 Griffiths, James, Youngstown
 Hanscome, Russell, Youngstown
 Hathaway, Richard, Youngstown
 Hoskinson, Charles, Mineral Ridge
 Hughes, Robert, Youngstown
 Hughes, Ronald, Youngstown
 Jaczko, Frank, Youngstown
 Kane, Thomas, Youngstown
 Keckley, Virginia, Youngstown
 Kelly, Ralph, Youngstown
 King, Jane, Youngstown
 Kirchner, Janet, Youngstown
 Koniacko, Alexander, Youngstown
 Knauff, Paul, Girard
 Lampila, Albert, Warren
 Lowry, Robert, Warren
 McComas, Luella, Youngstown
 McCracken, George, Youngstown
 McMichael, Vera, New Castle, Pa.
 Maggiano, Michael, Warren
 Maloney, Paul, Youngstown
 Margo, Madeline, Youngstown

Mesly, David, Girard
 Middleton, John, Youngstown
 Miller, Gladys, Youngstown
 Miller, Owen, Youngstown
 Miller, William, Salem
 Molnar, Otto, Sharon, Pa.
 Monahan, Anna, Girard
 Morris, Aaron, Leetonia
 Morrison, Ann, Girard
 Neimark, Belle, Lowellville
 Nolan, Raymond, Youngstown
 Norling, Victor, Girard
 Palchefskey, Frances, Youngstown
 Patrick, James, Youngstown
 Powers, Jeanette, Canfield
 Powers, Mildred, Girard
 Proctor, Edward, Youngstown
 Rayan, Mary, Youngstown
 Rempes, Howard, Youngstown
 Robinson, Romeo, Youngstown
 Robinson, Thomas, Youngstown
 Rodgers, Elinor, Youngstown
 Rossano, Anthony, Struthers
 Russert, Harold, Youngstown
 Sample, LaVerne, Youngstown
 Schume, John, Youngstown
 Sherfel, Karl, Youngstown
 Shields, Paul, Youngstown
 Shively, Walton, Mineral Ridge
 Smith, James, Youngstown
 Smith, Marion, Youngstown
 Sondecker, Louis, Youngstown
 Stine, Charles, Youngstown
 Strain, Marcellus, Youngstown
 Treffert, Fay, Niles
 Tucciarone, Adeline, Hubbard
 Walker, William, Youngstown
 Weller, Robert, Youngstown
 Wells, William, Youngstown
 Welch, Ludt, Youngstown
 Westfall, Rebekah, Niles
 Wighton, Marjorie, Youngstown
 Wilcox, Churchill, Canfield
 Zoss, Neil, Youngstown

Seniors

Agey, Mary Jane, Youngstown
 Andrews, George, Youngstown
 Balla, William, Youngstown
 Barker, Edward, Youngstown
 Bender, Theodore, Youngstown
 Birath, Louis, Youngstown
 Bower, Ethel, Youngstown
 Brooks, Howard, Youngstown
 Brown, Arthur, Youngstown
 Button, Alfred, Youngstown
 Chizmar, John, Mineral Ridge
 Comstock, Edna, Youngstown
 Crumpton, Erie, Youngstown
 Curry, John, Hubbard
 Dillon, Ralph, Youngstown
 D'Ovidio, Mary, Youngstown
 Estulin, Abraham, Youngstown
 Evzovetz, Bess, Youngstown
 Furdas, Olga, Youngstown
 Gailley, Glenn, Sharon, Pa.
 Gardner, Ruth, Youngstown
 George, Jessica, West Middlesex, Pa.
 Gold, Mary, Youngstown
 Graneto, Laura, Youngstown
 Gulfo, Frank, Youngstown
 Hall, Helen, Youngstown
 Hanelin, Miriam, Youngstown
 Hart, Lois, Struthers

Hawkins, Erma, Canfield
 Hill, Margaret, Struthers
 Holz, Theodore, Poland
 Hoover, Dallas, Youngstown
 Hower, Wayne, Warren
 Hutzen, Howard, Youngstown
 Jewell, Eleanor, Girard
 Johnson, Helen, Youngstown
 Kennedy, Harold, Youngstown
 Knight, Phillip, Sharon, Pa.
 Koczur, John, Girard
 Lackey, William, Youngstown
 Larocco, Julia, Campbell
 Leach, Donald, Youngstown
 Lucarell, Rocco, Youngstown
 Malys, Stanley, Campbell
 Mogan, George, Youngstown
 Moore, Ted, Youngstown
 Miller, Alexander, Youngstown
 Muretic, Matthew, Campbell
 Ptaff, Gertrude, Youngstown
 Radcliffe, Maurice, Warren
 Ray, Robert, Youngstown
 Repasky, Margaret, Youngstown
 Riley, Naomi, Girard
 Romig, Fred, Warren
 Rosapepe, Jack, Youngstown
 Sabatino, Constance, Youngstown

YOUNGSTOWN COLLEGE

Schuller, George, Youngstown
 Sell, Christine, Youngstown
 Thomas, Helen, Youngstown
 Todd, Henry, Columbiana
 Tucciaronne, Mayme, Hubbard
 Turley, Alvin, Girard
 Ungar, William, Youngstown

Volk, Anne, Youngstown
 Wiandt, Russell, Youngstown
 Wighton, Laurabelle, Youngstown
 Williams, Nathaniel, Youngstown
 Wright, Ruth, Lowellville
 Zachman, Esther, Girard
 Wilhelm, Franz, Youngstown

Law

Averbach, Abe, Youngstown
 Best, William, Youngstown
 Bibbee, Helen, Wellsville
 Brown, William, Youngstown
 Chambers, James, Youngstown
 Collins, Ralston, Youngstown
 Cossack, Leda, Youngstown
 Crawford, Richard, Youngstown
 D'Lea, James, Warren
 Donahue, John, Youngstown
 Dougherty, Paul, Youngstown
 Hall, John, Youngstown
 Hamilton, Wilbur, Warren
 Heller, Robert, Warren
 Helper, Kenneth, Youngstown
 Herald, Mary, Youngstown
 Higgins, Thomas, Youngstown
 Hurst, James, Youngstown
 Kabealo, Charles, Youngstown
 Kryzan, Frauk, Youngstown
 Leach, Raymond, Warren
 Mastriana, Anne, Poland

McCracken, Chester, North Jackson
 MacDonald, Thomas, Hubbard
 Mouery, Ralph, Youngstown
 Ogram, Melvin, Youngstown
 Palmer, Arthur, Newton Falls
 Reebel, Daniel, Youngstown
 Russert, Harold, Youngstown
 Seiman, Harold, Warren
 Sherfel, Karl, Youngstown
 Schwartz, David, Struthers
 Sittig, Helen, Youngstown
 Steinhauer, Cyrill, Youngstown
 Shields, Ina, New Castle, Pa.
 Shields, Lysle, New Castle, Pa.
 Swager, Warren, Youngstown
 Welsh, Jane, Youngstown
 Walters, Roy, Youngstown
 Weiner, Bernard, Youngstown
 Wentz, Robert, Farrell, Pa.
 Wester, Arthur, Youngstown
 Zeigler, Charles, Youngstown

Post-Graduates

Aley, Robert, Youngstown
 Beck, Emogene, Youngstown
 Bricka, Bonita, Youngstown
 Connell, James, Youngstown
 DeLeo, Peter, Youngstown
 Hawkins, Pearl, Youngstown
 Herr, Julia, Youngstown
 Macejko, Theodore, Youngstown
 Miller, M. G., Mercer, Pa.
 McLaughlin, Emily, Youngstown

Ohmer, Paul, Youngstown
 Resch, Helen, Youngstown
 Rice, Sue, Youngstown
 Rowland, Jane, Youngstown
 Rudibaugh, John, Youngstown
 St. John, Kenneth, Youngstown
 Talbot, Francis, Warren
 Westenfield, Marion, Youngstown
 White, Irma, Youngstown
 Williams, Ada, Youngstown

Irregular Students

Abbey, Carl, Youngstown
 Beans, John, Youngstown
 Brooks, Florence, Youngstown
 Buck, Victor, Youngstown
 Cobbs, Elizabeth, Salem
 Coburn, Charles, Youngstown
 Daff, Leo, Youngstown
 Ellsworth, Ruth, Youngstown
 Evans, Flora, Youngstown
 Fekete, Mrs. Paul, Youngstown
 Fish, Charles, Youngstown
 Flaherty, John, New Castle, Pa.
 Flowers, Ezra, Sharon, Pa.
 Gross, Mrs. Bernice, Youngstown

Hover, Grace, Youngstown
 Hrabko, Paul, Youngstown
 Jones, Mary, Girard
 Kinon, Mabel, Youngstown
 Klassen, Helena, Youngstown
 Laird, William, Girard
 Lawson, Alma, Youngstown
 Llewellyn, Ann, Niles
 Neff, William, Youngstown
 Rau, Olga, Poland
 Sansone, James, Youngstown
 Shepherd, Vera, Sharon, Pa.
 Sigal, Irvin, Youngstown

SUMMARY OF STUDENTS

FOR THE YEAR 1936-1937

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| Freshmen | 414 |
| Sophomores | 163 |
| Juniors | 110 |
| Seniors | 71 |
| Law | 43 |
| Post Graduates | 21 |
| Irregulars | 27 |
| Business School | 375 |

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Youngstown
College
1938-1939