



Youngstown College Bulletin

Catalog Number for the Year
1933-1934



410 WICK AVENUE
YOUNGSTOWN, OHIO
YOUNG MEN'S CHRISTIAN ASSOCIATION



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Co-Educational



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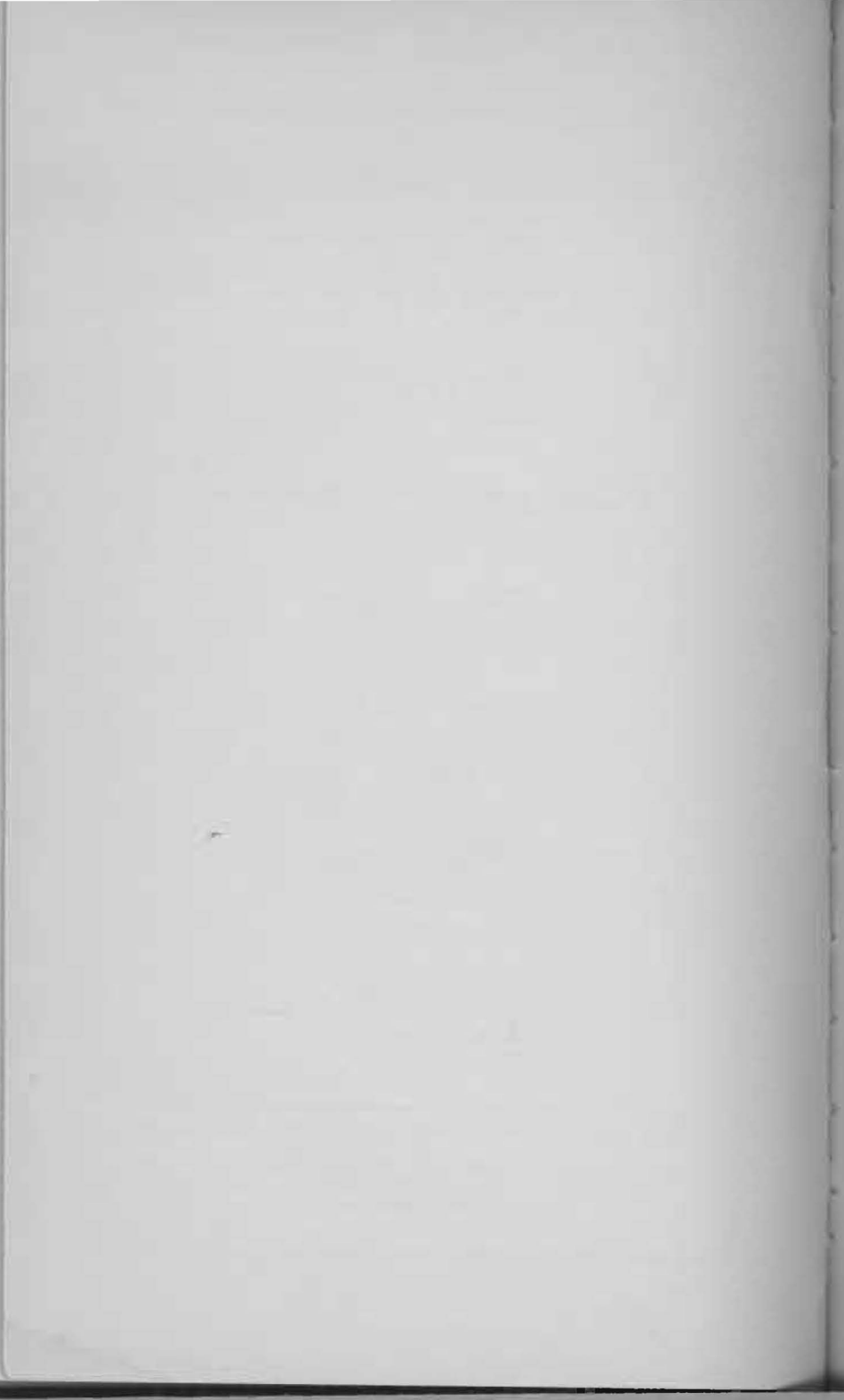
Volume 2

April 28, 1933

Number 2

Published March 31, April 28, May 26, Aug. 25, Dec. 29.

Application Pending for Second Class Entry at
Youngstown, Ohio, Post Office



COLLEGE CALENDAR

1933

- September 15 Final Registration for Freshmen
September 18 Final Registration For Upper Classmen
September 19 Enrollment in Classes
September 20 Class work begins. Penalty for late enrollment invoked on this date
November 22 Thanksgiving holiday begins, 10:00 P. M.
November 27 Thanksgiving holiday ends, 8:00 A. M.
December 19 Christmas vacation begins, 10:00 P. M.

1934

- January 3 Christmas vacation ends, 8:00 A. M.
February 2 First Semester ends
February 5 Registration and Enrollment
February 6 Class work of Second Semester begins
March 23 Easter vacation begins, 10:00 P. M.
April 2 Easter vacation ends, 8:00 A. M.
May 1 J. W. Breakfast, 7:00 A. M.
May 25 May Day, 1:00 P. M.
June 3 Baccalaureate Service
June 7 Faculty-Senior Banquet, 6:00 P. M.
June 8 Commencement

BOARD OF GOVERNORS

James L. Wick, Jr.	Chairman President, Falcon Bronze Company
W. E. Bliss	Vice-Chairman Vice-President, Bessemer Cement Corporation
Philip Schaff	Treasurer President, Morris Plan Bank
Herman Hurd	Recording Secretary Assistant Treasurer, Republic Steel Corporation
J. C. Argetsinger	Chief Counsel, Youngstown Sheet and Tube Company
J. C. Barrett	Superintendent, Blast Furnaces, Ohio Works, Carnegie Steel Company
R. M. Bell	Secretary and Treasurer, General Fireproofing Company
Dr. W. H. Bunn	Physician
Henry Butler	Butler, Wick and Company
Sidney J. Collins	Clark and Collins, Certified Public Accountants
N. B. Folsom	Trust Officer, Mahoning National Bank
Philip Frieder	Vice-President and Manager, David J. Joseph Company
Oscar F. Gayton	Mutual Life Insurance Company of New York
Hugh Grant	Chairman of Board, City Trust and Savings Company
W. D. Griffith	Superintendent, McDonald Mills, Carnegie Steel Company
Dr. W. E. Hammaker	Pastor, Trinity Methodist Church
H. Russell Hooper	President, City Trust and Savings Company
Julius Kahn	President and General Manager, Truscon Steel Company
Harry Levinson	Jeweler
Donald Lynn	Attorney, Harrington, Huxley, and Smith
W. C. McKain	McKain, Ohl, and Swanner
J. Russell McKay	Assistant Secretary and Attorney, Home Savings and Loan Company
E. L. McKelvey	Vice-President and General Manager, G. M. McKelvey Company
William F. Maag, Jr.	General Manager, Vindicator Printing Company
Hugh Manchester	Manchester, Ford, Bennett, and Powers

- Thomas H. Murray Secretary and Treasurer, Heller-Murray Company
- Jay Ogram Assistant Cashier, Union National 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
- Clarence J. Strouss President, Strouss-Hirshberg Company
- Herbert S. Warwick Industrial Manager, Youngstown Sheet and Tube Company
- Verne J. Wilson President, Union National Bank
- R. J. Wysor Vice-President, Republic Steel Corporation
- J. Eugene Bennett—President of The Young Men's Christian Association, ex officio.
- Leonard T. Skeggs—General Secretary of The Young Men's Christian Association, ex officio.

EXECUTIVE COMMITTEE

- James L. Wick, Jr. _____ Chairman
 President, Falcon Bronze Company
- J. C. Barrett Superintendent, Blast Furnaces, Ohio Works,
 Carnegie Steel Company
- W. E. Bliss Vice-President, Standard Slag Company
- H. M. Hurd Assistant Treasurer, Republic Steel Corpora-
 tion
- W. C. McKain McKain, Ohl, and Swanner
- Russell McKay Assistant Secretary and Attorney, Home
 Savings and Loan Company
- Thomas H. Murray Secretary and Treasurer, Heller-Murray Co.
 Franklin Powers Manchester, Ford, Bennett, and Powers
- C. Snelling Robinson Vice-President, Youngstown Sheet and Tube
 Company
- Philip Schaff President, Morris Plan Bank
- Clarence J. Strouss President, Strouss-Hirshberg Company
- R. J. Wysor Vice-President, Republic Steel Corporation
- J. Eugene Bennett—President of The Young Men's Christian
 Association, *ex officio*.
- Leonard T. Skeggs—General Secretary of The Young Men's
 Christian Association, *ex officio*.

BOARD OF TRUSTEES

(THE YOUNG MEN'S CHRISTIAN ASSOCIATION)

J. Eugene Bennett	.....	President
		Manchester, Ford, Bennett, and Powers
George R. Brainard	.....	First Vice-President
		President, General Fireproofing Company
Walter Stitt	.....	Second Vice-President
		McElroy Company
Russell McKay	.....	Third Vice-President
		Assistant Secretary and Attorney, Home Savings & Loan Company
Phillip H. Schaff	.....	Treasurer
		President, Morris Plan Bank
Claud J. Johnson	.....	Secretary
		District Manager, Northwestern Life Insurance Company
J. C. Argetsinger	.....	General Counsel
		Chief Counsel, Youngstown Sheet and Tube Company
Leonard T. Skeggs	.....	General Secretary
Myron Arms, II		President, Aetna Standard Engineering Co.
J. C. Barrett		Superintendent, Blast Furnaces, Ohio Works, Carnegie Steel Company
L. A. Beeghly		President, Standard Slag Company
R. M. Bell		Secretary and Treasurer, General Fireproof- ing Company
W. E. Bliss		Vice-President, Standard Slag Company
J. Fearnley Bonnell		Treasurer, Liebman-Bonnell-Wood Company
Dr. W. H. Bunn		Physician
W. C. Conger		Vice-President and Sales Manager, Truscon Steel Company
C. N. Crandall		(Retired)
B. F. Fairless		First Vice-President, Republic Steel Corpora- tion
N. B. Folsom		Trust Officer, Mahoning National Bank
Walter S. Goode		Secretary and Treasurer, John H. Fitch Co.
W. D. Griffith		Superintendent, McDonald Mills, Carnegie Steel Company.

W. J. Gutknecht	Manager, Youngstown Arc Engraving Co.
F. E. Hearn	President and Manager, Hearn Paper Co.
James A. Henderson	President, Henderson-Overland Company
H. M. Hurd	Assistant Treasurer, Republic Steel Corporation
Louis N. McDonald	General Superintendent, Youngstown District, Carnegie Steel Company
Hugh Manchester	Manchester, Ford, Bennett, and Powers
J. Howard Parker	Vice-President, Union National Bank
Martin S. Tod	Civil Engineer
Roy Welch	Assistant Secretary and Treasurer, Youngstown Sheet and Tube Company
James L. Wick, Jr.	President, Falcon Bronze Company
Philip Wick	Butler, Wick and Company

OFFICERS OF ADMINISTRATION

Howard W. Jones, A. M.	Director
John W. Bare, A. M.	Dean of Men
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, A. B.	Registrar
Raymond A. Witchey, A. M.	Business Manager
Freda R. Flint, A. B.	Publicity Director
Elsie Randle	Recorder
Elsie Louise Mann	Employment Secretary
Mrs. Helen Lyon	Librarian and Cashier
Virginia Kemp	Secretary

FACULTY

- Howard W. Jones, A. M. Director
 A. B., Hiram College
 A. M., Western Reserve University
- Clara Witter Alcroft, B. S.* Physical Training for Women
 B. S., Iowa State Teachers College
- Charles F. Axtmann, M. S.* Business Administration
 M. S., Syracuse University
- John W. Bare, A. M. English
 A. B., Ohio Wesleyan University
 A. M., Ohio Wesleyan University
- Levi G. Batman, A. B.* Biblical Literature
 A. B., Indiana University
- Karl H. Benkner, M. E.* German
 M. E., Military Technical Academy (Charlottenburg, Germany)
- R. Douglas Bowden, A. M. Social Science
 A. B., University of Kentucky
 A. M., University of Illinois
- Elmer E. Burgeson, B. C. S., C. P. A.* Accounting
 B. C. S., Youngstown College of Business Administration
- Arthur L. Carter, LL.B.* Business Law
 A. B., Muskingum College
 LL.B., Youngstown College of Law
- Walter Church, B. C. S.* Accounting
 B. C. S., Youngstown College of Business Administration
- Denton T. Doll, B. S. Engineering
 B. S., Case School of Applied Science
- Roy R. Fellers, B. A.* Public Speaking
 B. A., University of Michigan
- Joseph Flannery, M. E.* Marketing
 M. E., Ohio State University
- Castle W. Foard, Ph.D. Mathematics and Physics
 A. B., University of Wichita
 Ph.D., University of Iowa
- Ruth Emma Foard, B. S.* Home Economics
 B. S., Lombard College
- Judge George H. Gessner, LL.B.* Law
 LL.B., Western Reserve University
- Whitney Herr, A. B.* Economics
 A. B., Oberlin College
- Ceylon E. Hollingsworth* Fine Arts
 Pupil of William M. Chase, New York City

- Elmer W. Hykes, B. S.*Accounting
 B. S., Bliss College
- Jack McPhee, A. B.*Physical Education for Men
 A. B., Youngstown College
- Eleanor B. North, A. M.English
 A. B., Pennsylvania State College
 A. M., Pennsylvania State College
- M. Ervin Palison, A. B.*Biology
 A. B., Ohio University
- Otto L. Pfau, A. B.*Credits and Collections
 A. B., Wooster College
- O. L. Reid, A. M.*Social Science
 A. M., New York University
 LL. B., University of Louisville
- Leonard T. Richardson, Ph.D.Modern Languages
 A. B., Aurora College
 Docteur de l'Universite de Grenoble (France)
- Mary Schumann*Voice Culture
 Columbia University
- Eugene Dodd Scudder, Ph.D.Chemistry
 A. B., Indiana University
 Ph.D., Indiana University
- Joseph Earle Smith, Ph.D.*Social Science
 A. B., Oxon College
 Ph.D., Wallas College, London
- Henry V. Stearns, D. Ped.Dean of Music Department
 B. Mus., American Conservatory of Music
 F. A. G. O.
 D. Ped., Cincinnati Conservatory of Music
- S. E. Trinkle, Commercial Artist*Commercial Art
- R. A. Waldron, Ph.D.*Biology
 B. S., Massachusetts State College
 Ph.D., University of Pennsylvania
- John Wampler, B. C. S.*Accounting
 B. C. S., Youngstown College of Business Administration
- H. C. Welch, B. S.*Mathematics
 B. S., Syracuse University
- Raymond A. Witchey, A. M.*Accounting
 A. B., Bucknell University
 A. M., Ohio State University

*—Instructors not carrying full teaching load.

HISTORICAL SKETCH

Youngstown College had its beginning in September, 1921, when the first Liberal Arts course was offered as a part of the evening school work then being done by the Youngstown Institute of Technology. Professors from neighboring colleges constituted the first faculty. The work offered was designed to accommodate local teachers who needed credits toward degrees and certificates. Six years of steady growth convinced those responsible for the work that there was a real need in Youngstown for a day college of Liberal Arts. Consequently, in September, 1927, a Day College of Liberal Arts was established with an enrollment of approximately one hundred students. Steady growth has continued from that date until in the school year 1932-33 there was an enrollment in excess of 600 students. In June, 1930, by authority of the Department of Education of the State of Ohio, the degree of Bachelor of Arts was conferred upon the first group of graduates of Youngstown College.

In 1908 The Youngstown College of Law had its inception in a class in Commercial Law composed of about nine men.

In 1910 classes were started to prepare men for the bar examination. In 1920 the State of Ohio gave the school the right to grant the Bachelor of Laws degree. During the school year 1920-1921, Judge George H. Gessner became Dean and has guided the destinies of the school ever since. In 1924, about three thousand volumes were added to the Library. In September, 1925, the entrance requirements were raised so that two years of Liberal Arts are now required for entrance before the degree of LL. B. will be granted.

LOCATION AND BUILDINGS

For the first four years of its existence, the college was located on the Henry Wick property at 416 Wick Avenue. In November of 1931, the college was moved into its new building at 410 Wick Avenue, a building which is beautiful in design, modern, up to date, and ample for the college needs.

The location of the college is admirable in that it is in an area of the city which has been termed "a cultural oasis". To the north is the Butler Art Gallery; across the street, the St. Paul's Episcopal Church, the city Public Library, and the First Reformed Church. It is also within three blocks of the Y. W. C. A. and the Y. M. C. A.

REGISTRATION

The office of the Registrar is located on the main floor and is open from 8:30 A. M. until 9:30 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. No student will be permitted to register later than two weeks after the opening of college, except by special permission of the faculty. A penalty of \$1.00 will be charged all students who register late.

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 an official transcript of the high school credits.

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

As a broad and adequate foundation for the course in Liberal Arts, the following distribution of units in the high school is required.

English	3 units
United States History and Civics.....	1 unit
Algebra	1 unit
Geometry	1 unit
Physics or Chemistry	1 unit
Botany and Zoology	1 unit
Foreign Language	2 units
Acceptable Electives	6 units

Any deficiency or irregularity in credit standing must be removed by the end of the first year.

ADMISSION TO ADVANCED STANDING

Students entering from other colleges are required to present a complete transcript of all work taken in that college together with a statement of the high school work presented for entrance. In each case the applicant must present a letter of honorable dismissal from the school last attended.

CLASSIFICATION OF STUDENTS

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

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

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

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.

THE COLLEGE YEAR

The college year is divided into two semesters of eighteen weeks each. School is in session five days a week. Although a major part of the work comes in the morning, arrangements are always made for afternoon and evening students. 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. By attending the summer session, it is possible to shorten the course.

SEMESTER HOUR DEFINED

A semester hour of work consists of a unit carried eighteen weeks. A lecture unit means one exercise a week throughout a semester, each exercise to represent one hour of lecture or recitation and two hours of preparation or outside reading. A laboratory unit implies three hours of work of which not less than two hours are devoted to actual laboratory work under the direction of an instructor.

THE LOAD

Fifteen hours is the normal load. 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 18 hours carried.

DEGREES

In June, 1930, the State Department of Education of Ohio authorized Youngstown College to grant the Bachelor of Arts Degree.

FEEES AND EXPENSES

All fees and tuition are due the first week of the semester. Registration is not complete and admission to classes will not be approved until all tuition has been paid, or payments arranged and agreed upon with the Business Manager.

Matriculation Fee (Payable only once)	\$ 5.00
Tuition (12-15 semester hours)	75.00
Each Additional Semester Hour (Academic)	5.00
Laboratory Fee (Chemistry, Biology 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
Diploma Fee	5.00
Library Fee	2.00
(For special fees on Art, Music, Home Economics, and Engineering Drawing see Descriptions of Courses)	
Student Activity fee for eleven hours or less	2.50

TUITION RATES FOR STUDENTS CARRYING LESS THAN 12 SEMESTER HOURS OF WORK

3 semester hours	\$25.00
4 semester hours	32.50
5 semester hours	40.00
Each additional semester hour	5.00

Students who do not make settlement in full within ten days will be required to pay \$5.00 extra as a carrying charge.

ESTIMATED SEMESTER EXPENSES

Tuition	\$75.00
Student Activity	5.00
Gymnasium	5.00
Laboratory	5.00
Library	2.00
Books and Supplies	15.00

Total, \$107.00

One transcript of credits to another college is granted. A fee of \$1.00 is charged for each additional transcript.

The matriculation fee covers the cost of registration, and should accompany application.

The breakage deposit in chemistry and physics is returnable wholly or in part at the end of the year.

The Student Activity fee admits one to all athletic contests, social events sponsored by the Student Council, and includes subscriptions to the college annual and the JAMBAR.

GROUP REQUIREMENTS FOR A. B. DEGREE

Group I—Languages

English 8 hours
 One Foreign Language 6 hours

Group II—Science and Mathematics (Botany, Zoology, Biology, Astronomy, Chemistry, Physics, Physiology, Geology, Mathematics.)

Laboratory Science 8 hours
 Elective 3 hours

Group III—Social Science

(History, Economics, Sociology,
 Political Science) 9 hours
 Psychology, Philosophy, and Bible 3 hours

Group IV—Physical Education 4 hours

Electives sufficient to make a total of 124 hours must be taken for graduation. Not fewer than 30 hours must be earned at Youngstown College.

MAJORS AND MINORS

The requirements for a major in the various departments are as follows:

English—25 semester hours.

Chemistry—30 semester hours.

Mathematics—27 semester hours.

French—24 semester hours.

Social Science—24 semester hours.

Business Administration—32 hours.

Note—A minor consists of fifteen hours. Each student is required to have at least one major and one minor. The advisor in the major field should be consulted regarding the selection of a minor.

At least 60 hours must be in courses not open to Freshmen, of which at least 40 must be in courses for advanced under-graduates (courses numbered 300 or more). If a senior takes a course open to Freshmen, the credit will be diminished by one-third.

When a student has enough credits to be graduated but has failed to maintain a C average, he must earn a sufficient number of extra credits to bring the average to a C.

Application for the degree must be filed with the Registrar and the diploma fee must be paid, at least 60 days prior to Commencement.

Students excused from requirements of two years Physical Education must substitute an equivalent amount of academic work.

Students transferring from other colleges must meet all requirements for the degree in Youngstown College.

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.

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.

Student Council

The 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 co-operates with the various special student organizations and makes recommendation 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 faculty.

Honor Point System

The Honor Point System of The 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 five students earning the largest number of points each year will be presented a pearl-studded pin with the letters "Y. C." as 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
	8 "	Student Council Officers
	8 "	Jambar Editor
	8 "	Annual Editor
	8 "	Basketball Captain
	7 "	Student Council Members
	7 "	Senior Basketball Manager
	7 "	Basketball Major Awards
	5 "	Athletic Board Chairman
	5 "	Intramural Board Chairman
	5 "	Senior Class Officers

5	"	Junior Basketball Manager
5	"	Cheer Leaders
5	"	Jambar Business Manager
5	"	Debating Club President
5	"	Jambar Staff
5	"	Annual Staff
5	"	Annual Business Manager
5	"	May Day Chairman
5	"	Glee Club President
5	"	Dramatic Club President
3	"	Athletic Board Members
3	"	Intramural Board Members
3	"	Athletic Minor Awards
3	"	Junior, Sophomore, or Freshman Class Officers
3	"	Debating Team
3	"	Major Parts in Plays
1	"	Glee Club Members
1	"	Minor Parts in Plays
1	"	Stage Managers and Electricians
1	"	Chairman for May Day Sub-Committees

COLLEGE ORGANIZATIONS

Clubs

Athletic Board	Men's Intramural Board
Debate Club	Open Road Club
Girls' Glee Club	Radio Club
Masketeers	Student Council
Men's Forum	Varsity "Y" Club
Men's Glee Club	Women's Forum
	Women's Intramural Board

Honorary Fraternities

Alpha Sigma Pi	Law (National)
Phi Epsilon	Science
Sigma Kappa Phi	Business Administration (National)
Sigma Tau Delta	English (National)

Social Fraternities

Alpha Pi Sigma (National)	Phi Lambda Delta
Gamma Sigma	Phi Sigma Epsilon
Phi Gamma	Sigma Delta Beta

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 semester and automatically becomes a failure if not removed within a year.

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

"F" indicates failure.

ATTENDANCE

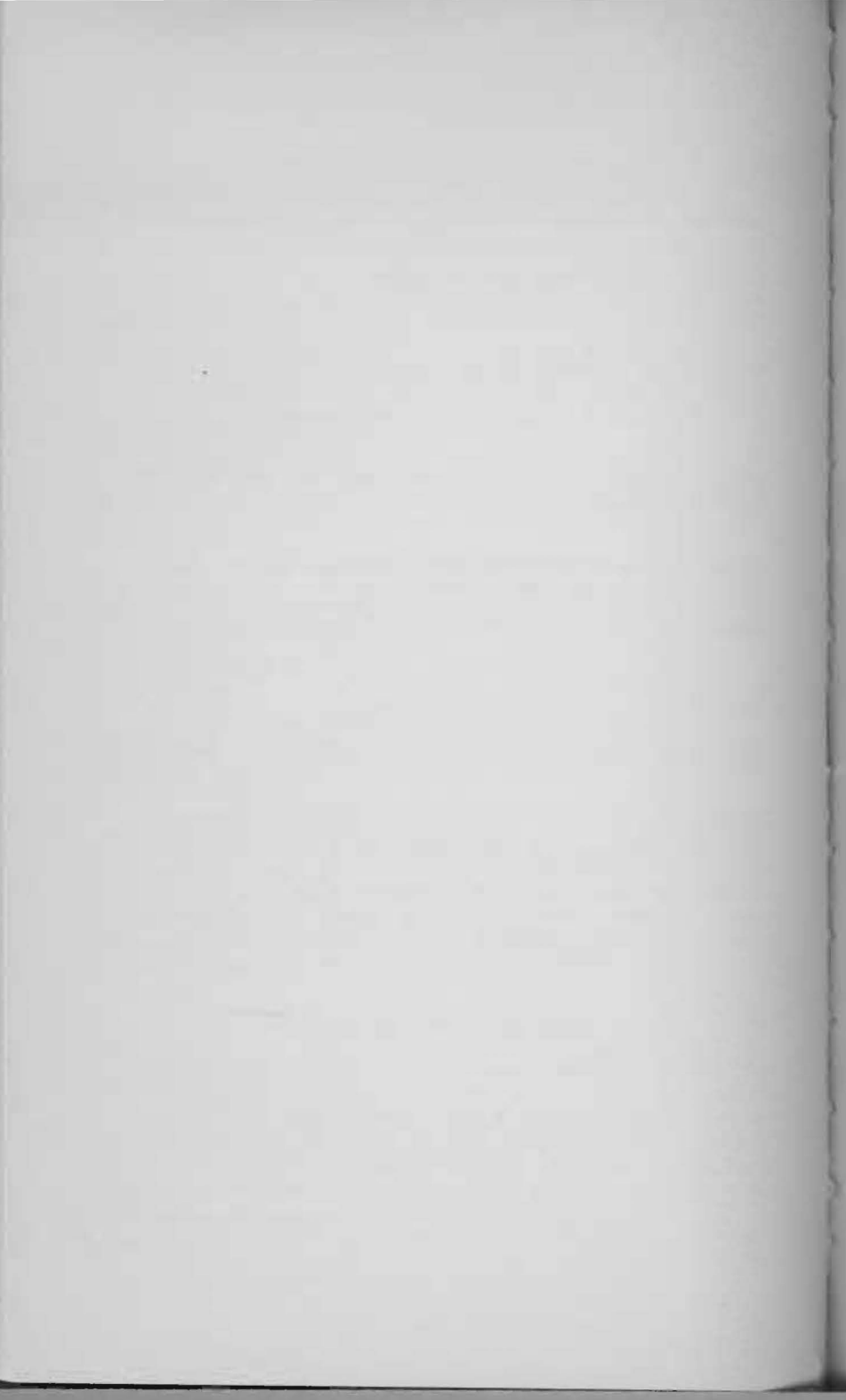
Students are required to be regular in attendance in their classes.

Chapel attendance is expected of all students and is looked upon as a regular part of the college life. Each student must show attendance at chapel not less than twelve times during a semester. A record is kept of such attendance, and at the end of the semester, if a student has not attended chapel the required number of times, the work of the entire semester will be conditioned until the conditions are removed satisfactorily by his attendance the second semester.

EMPLOYMENT SERVICE

Special effort will be made to secure part-time positions for those desiring work. Many calls come to the office for students desiring part-time employment. There is a steady demand particularly for girls who are willing to take care of children or assist in the home in payment for board and room. Students desiring work should inquire at the office as soon as possible and confer with the Employment Secretary.

Liberal Arts



DESCRIPTION OF COURSES

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. 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.

ART

Art 101, 102. FREE HAND DRAWING—Two three-hour laboratory periods each week. An elementary course in the principles and practice of expression by free hand drawing. Emphasis upon proportion, perspective, and values in monochrome. Special fee, \$5.00 per semester.

Two hours credit each semester.

Art 103. ART FOR PUBLIC SCHOOL TEACHING—A course in public school art dealing with a variety of materials, applying design to such materials as pottery, linoleum block printing, and dyeing. A study of composition, lettering, and color as applied to public school work. (Offered in the summer.)

Three hours credit.

Art 201, 202. ADVANCED FREE HAND DRAWING—Two three-hour laboratory periods each week. Drawing from still life and the antique as a means of expression, emphasizing the various possibilities and limitations of the black and white mediums, with problems in composition. Pre-requisites, Art 101 and 102. Special fee, \$5.00 per semester.

Two hours credit each semester.

Art 203. WATER COLOR PAINTING—Two three-hour periods each week. Painting from still life, models, and landscape. Lectures, laboratory work and criticisms. Special fee, \$5.00 per semester.

Two hours credit.

Art 204. ADVANCED WATER COLOR PAINTING—Two three-hour periods each week. Painting from still life, models and landscapes. Lectures, laboratory work, and criticisms. Pre-requisite, Art 203. Special fee, \$5.00 per semester.

Two hours credit.

Art. 205. LANDSCAPE AND OPEN-AIR EFFECTS—Outdoor class working from nature, each student using the medium desired, the black and whites, pastel, oils or watercolors. Advanced students may paint from living models posed in the open air. (Offered in the summer.)

Three hours credit.

Art 301, 302. DRAWING AND COLOR WORK FROM LIFE—Two three-hour periods each week. Drawing from the living models with lectures and problems in surface anatomy and figure composition. Pre-requisites, Art 201 and 202. Special fee, \$5.00 per semester.

Two hours credit each semester.

Art 303, 304. OIL PAINTING—Two three-hour periods each week. Painting from living costume models. Pre-requisites, Art 301 and 302. Special fee, \$7.00 per semester.

Two hours credit each semester.

ASTRONOMY

201. ASTRONOMY—The scientific study of the stars and the solar system. An analysis of the present theories of cosmogony and some observational sessions with telescope and field glass. Lecture and textbook assignments.
Three hours credit.

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 to evaluate for himself the unique personality of Jesus. Lectures, recitations and special topics for investigation.

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 teaching of St. Paul will be considered in their relation to the development and activity of the early church. Lectures, recitations and special topics for investigation.

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. Lectures, recitations and topics for investigation.

Two hours credit.

304. COMPARATIVE RELIGION—A study of the great world religions with a view of making an effort to understand and evaluate the faiths of non-Christian peoples. Sacred writings and religious leaders will be studied.

Three hours credit.

BIOLOGY

A major in biology shall include the following required subjects:

General Zoology 101 and 102
and/or
General Botany 101 and 102
Genetics 201

Sufficient work to make a total of not less than 30 hours nor more than 45 hours must be taken in the Department of Biology. Geology 202 will be counted as a substitute for biological subjects. Majors in biology are advised to take as much supplementary work in physics and chemistry as possible to aid in fullest application of their biological knowledge.

101. GENERAL ZOOLOGY — Two lectures and two two-hour laboratory periods each week. An introductory course including text assignments, lecture, and laboratory work. Systematic study of characteristic types with emphasis on evaluation and reproduction.

Four hours credit.

103. GENERAL BOTANY — Two lectures and two two-hour laboratory periods each week. Detailed study of plant structures and their functions. Local flora and economic importance of Botany stressed. Life histories emphasized.

Four hours credit.

201-202. ANATOMY AND PHYSIOLOGY OF THE VERTEBRATES—Two lectures and four hours laboratory work. Detailed anatomical and physiological studies of the vertebrates. (If all material is purchased, laboratory fee is \$10.00.) Pre-requisite, Zoology 101.

Four hours credit each semester.

205. HUMAN ANATOMY AND PHYSIOLOGY—This course is a biological approach to human anatomy and physiology. The groundwork of the course is developmental vertebrate anatomy which is followed by the study of structure and function of the various parts of the human body. Outside reference reading and demonstrations will be a part of the course. (Offered if demand warrants). Pre-requisite, Biology 101.

Four hours credit.

203. MICROTECHNIQUE—The preparation of biological material, zoological and botanical, for classroom and research purposes. Laboratory periods only. \$5.00 laboratory fee. (1934-35).
Pre-requisite, General Botany or Zoology.

Four hours credit.

204. EMBRYOLOGY — Two lectures, four hours laboratory. The individual development of the frog, chick and pig to show stages in detail of adult structures. Recommended by all medical colleges, required by most.

Three hours credit.

205. BACTERIOLOGY — Two lectures and five hours laboratory work. The morphology, physiology, and cultivation of bacteria and related organisms. \$10.00 laboratory fee.
Pre-requisite, Biology 101, 102.

Four hours credit.

304. ORNITHOLOGY—Detailed study of local birds, their identifying characteristics, habitat, economic importance, and methods of increasing bird population. Lectures and "bird walks" both individual and with instructor to typical localities around Youngstown. (To be arranged on demand).

Three hours credit.

305. ECOLOGY—The interaction of organisms and their environment. The field study of ecological groups in Youngstown and vicinity. Study of specimens of typical habitat groups. (1934-35)

Three hours credit.

401. GENETICS AND EVOLUTION—The study of inheritance, its evolutionary significance and demonstrations of mechanisms of inheritance. Required of all majors in Biology. Offered 1934-35.

Three hours credit.

402. INDIVIDUAL WORK—Students majoring in Biology may pursue some line of biological work not included in the preceding courses. Open to students only by permission of the head of the department.

Credits variable.

CHEMISTRY

The courses offered in chemistry will enable the student to major in the subject and also take additional courses in the field of chemistry in which he is especially interested. Students wishing to take up medicine, nursing, and home economics will find most of their required chemistry courses in the list. Chemistry majors are required to take the following courses: 109 or 111, 110 or 112 203, 209, 304, 306, 311, and 312.

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 and 110. A more advanced course in general chemistry for those who have had a satisfactory year's work in high school.

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. Pre-requisite, Chemistry 110 or 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 home economics students and others who do not care for the full five-hour course. Pre-requisite, General Chemistry.

Three hours credit.

203. QUANTITATIVE ANALYSIS — One lecture and recitation and twelve hours laboratory each week. Gravimetric, volumetric, and colorimetric analysis. Pre-requisite, General Chemistry and Qualitative Analysis.

Five hours credit.

304. ORGANIC CHEMISTRY—Five lectures and recitations each week. A study is made of the nomenclature, properties, and departments of the aliphatic and aromatic carbon compounds. Pre-requisite, General Chemistry and Qualitative Analysis.

Five hours credit.

306. ORGANIC CHEMISTRY—Repeated second semester on demand. Three 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. Pre-requisite or concurrent, Chemistry 304.

Three hours credit.

308. ORGANIC CHEMISTRY—Three hours of laboratory work each week with conferences. Advanced organic preparations. Pre-requisite or concurrent, Chemistry 306.

One hour credit.

311-312. PHYSICAL CHEMISTRY. Three lectures and recitations each week. A fundamental course in physical chemistry. Pre-requisite or concurrent, acceptable courses in organic chemistry, physics, and calculus.

Three hours credit each semester.

313. METALLURGY — Two lectures and recitations each week. A brief course in the common metallurgical processes.

Two hours credit.

314. METALLOGRAPHY—Two lectures and recitations each week. A study of the internal structure of metals and alloys, and of its relation to their composition, and to their physical and mechanical properties. Pre-requisite or concurrent, Chemistry 312.

Two hours credit.

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.

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. ADVANCED INORGANIC CHEMISTRY—Two lectures and recitations each week. An advanced course in inorganic chemistry stressing the more difficult points of theory. Open to students who have had two years of chemistry.

Two hours credit.

321. ADVANCED ORGANIC CHEMISTRY—Two lectures and recitations each week. An advanced course in theory of organic chemistry. Open to seniors.

Two hours credit.

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

Two or three hours credit.

ENGINEERING DRAWING

101, 102. PRINCIPLES OF ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY—Two four-hour periods of lectures and laboratory each week. Orthographic projection, auxiliary drawings, isometric and other pictorial representation, lettering. Last twelve weeks of second semester devoted to Descriptive Geometry. Special fee, each semester, \$2.50.

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 and 203-204. Speech 115 must be taken. In addition, 11 hours should be offered in course 205 and the 300 courses, making a total of 25 hours for an English major.

A minor in English consists of a minimum of 18 hours.

Those students not majoring in English are advised to take courses 101-102 and Speech 115 or 117.

Language

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.

201. ADVANCED COMPOSITION—Practice in essay and other forms of writing to develop power for correct and fluent expression. Pre-requisite, Course 101-102.

Two hours credit.

205. 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. Pre-requisites, Courses 101-102 and 203.

Two hours credit.

211-212. JOURNALISM—News writing and reporting, page make-up, editorial writing, theory and practice. Studies of form, content, purpose, and ethics of journalism. Pre-requisite, Course 101-102.

Two hours credit each semester.

311. BUSINESS LETTERS AND REPORTS—A practical course in the writing of effective business letters, including credits, complaint, adjustment, sales, and other types of modern business communications. This is a course for advanced students. (Offered in the evening).

Two hours credit.

342. CREATIVE WRITING. Open to upper classmen with the grade of B in English 102. A study of short story, poetry, and magazine article writing, with emphasis upon technique and practice. Individual conferences. The marketing of manuscripts is fully discussed. Pre-requisite, Course 101-102.

Three hours credit.

Literature

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

Three hours credit.

301. CHAUCER—A study of the life and literature of the fourteenth century as reflected in the writings of Chaucer and his contemporaries. Pre-requisite, Course 101-102 and 203.

Two hours credit.

307. ROMANTIC PERIOD—An appreciative study of the works of Scott, Wordsworth, Coleridge, Byron, Shelley, Keats, etc. Pre-requisite, Course 101-102.

Three hours credit.

308. VICTORIAN LITERATURE—A survey of writings of Carlyle, Ruskin, Tennyson, Browning, Matthew Arnold, and other writers of the period. Pre-requisite, Course 101-102.

Three hours credit.

309-310. SHAKESPEARE—An intensive study of major plays of Shakespeare, with a more rapid reading and discussion of his minor plays. Pre-requisite, Course 101-102.

Three hours credit.

314. SHORT STORY—An appreciative reading course with analysis of present-day types and models. Pre-requisite, Course 101-102.

Three hours credit.

315. CONTEMPORARY LITERATURE—A survey of the novel, the short story, the drama, and the field of poetry since 1900. Round table discussions, lectures, and reports. Pre-requisite, Course 101-102.

Three hours credit.

321. DRAMA—A rapid survey of English drama from early forms to the modern field, with emphasis on modern dramatic trends. Pre-requisite, Course 101-102.

Three hours credit.

324. THE NOVEL—A study of the history and development of the novel in England and America up to the year 1890. Pre-requisite, Course 101-102.

Three hours credit.

325. MODERN NOVEL—A study of the novel field in England and America since 1890. Pre-requisite, Course 101-102.

Three hours credit.

326. CONTEMPORARY POETRY—An appreciative study of the modern poetry field since 1912. Emphasis in recent trends and ideals of representative English, Irish, and American poets. Pre-requisite, Course 101-102.

Three hours credit.

336. THE ESSAY—A rapid survey of the field of the essay, with emphasis on essay writings and writers since 1890. Pre-requisite, Course 101-102.

Two hours credit.

Speech

115-116. ELEMENTARY SPEECH—A study of the fundamentals of speech, formal and informal speeches, dramatic interpretations and debate.

Two hours credit each semester.

117-118. SPEAKING VOICE CULTURE—A practical intensive course which aims to develop a musical, resonant voice. It includes drill in voice placing, shaded vowel sounds, vocabulary, work in expression, and minor items which contribute to poise and personality.

Two hours credit each semester.

215-216. DEBATE—Fundamentals of argumentation, analysis, brief-making, and delivery. For students interested in inter-collegiate debate. Pre-requisite, Course 115 or 117.

Two hours credit each semester.

219-220. DRAMATICS—Character interpretation and projection, involving elementary technique of acting, staging, and play production.

Two hours credit each semester.

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. Repeated second semester. (Offered in the evening.)

Two hours credit.

GEOGRAPHY

101. ECONOMIC GEOGRAPHY—The influence of geographic environment upon industries and other human activities, with special reference to the United States.

Three hours credit.

102. PRINCIPLES OF GEOGRAPHY—A study of human adjustments to the elements of the natural environments, such as climates, soils, land forms, surface, ground waters, and minerals.

Three hours credit.

301. PHYSICAL GEOGRAPHY—This course is a study of the earth's surface. The forces of erosion, as those of the winds, running water, tides, and their effect in the forming of streams, valleys, plains, and shore lines will be studied. Study will also be made of mountain and plateau formations, volcanoes and earthquakes of the earth as it is today.

Three hours credit.

GEOLOGY

202. HISTORICAL GEOLOGY—Two lectures, four hours laboratory and field study. The appearance of organisms in time. Type specimens and fossils as time indicators. The economic value of fossils. Field collecting.

Four hours credit.

HOME ECONOMICS

101. FOOD ECONOMICS AND ELEMENTS OF NUTRITION—Two lectures and one two-hour laboratory period. Discussion of fundamental problems of food in relation to health; construction of dietaries.

Three hours credit.

102. DRESS SELECTION AND COSTUME DESIGN—Two hours lecture and one two-hour laboratory period. This course is a practical application of art principles as they are used in selecting, designing, and making or purchasing costumes to suit different occasions and types of people.

Three hours credit.

103. FOODS—Two hours lecture and one two-hour laboratory period. A study of the principles of food selection and preparation; economic cost, and planning of meals with correct table service.

Three hours credit.

104. CLOTHING. One hour lecture and two two-hour laboratory periods. Fundamental principles underlying the planning, selection, and construction of garments. Lectures on clothing problems.

Three hours credit.

NOTE—Each Home Economics course requires a special laboratory fee of \$3.00 per semester.

MATHEMATICS

Mathematics is a language that expresses exact relationships, whether they occur in abstract theory or in practical problems of engineering or finance. The work of the first year is found to be of broad cultural value to any student, and students of chemistry and engineering will need to continue their work in Mathematics at least through Calculus. Physics students may well afford to

pursue the entire course offered to Mathematics majors. The Mathematics courses of the junior and senior years are alternated in such a way as to give great variety in selection of courses.

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. Open to Freshmen.

Three hours credit.

111-112. COLLEGE ALGEBRA—This course is equivalent of course 101, except that more time is allowed for review of the fundamentals of Algebra, and some additional ground is covered. Open to Freshmen.

Two hours credit each semester.

103. PLANE AND SPHERICAL TRIGONOMETRY—The work includes logarithms, goniometry, solution of triangles, trigonometric equations and construction of tables. Should follow or be accompanied by Math 111-112.

Three hours credit.

114. ANALYTIC GEOMETRY—This course is largely a study of equations and their graphs. Curve fitting by means of empirical equations is also included. Pre-requisite, Trigonometry.

Three hours credit.

207. MATHEMATICS OF FINANCE—Such topics are considered as simple and compound interest, discount, annuities, sinking fund methods, and life insurance. College Algebra is desirable as a pre-requisite.

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. Pre-requisite, Mathematics 114.

Five hours credit each semester.

315. DIFFERENTIAL EQUATIONS—Methods of solving ordinary differential equations, especially those met with in physics and engineering. Pre-requisite, Mathematics 209 and 210. (Offered in 1932-33)

Three hours credit.

314. ANALYTICAL MECHANICS—A mathematical treatment of problems in statics and dynamics of particles and rigid bodies. Pre-requisites, Mathematics 210 and Physics 201. (Offered 1932-33)

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. Pre-requisite, Mathematics 209, or consent of the instructor. (Offered Summer, 1932)

Three hours credit.

MODERN LANGUAGES

At present the only language in which enough courses are offered to constitute a major is French. However, a major in Romance Languages may be obtained by combining 18 semester hours of courses in French above the 100 group with 6 semester hours of intermediate or advanced Spanish or of elementary Italian.

A minor in Romance Languages may consist of intermediate French and any three courses in French Literature, or of Spanish 203, 204, 305, and of six hours of Italian.

Until there is a demand for advanced courses in German, enough credits cannot be obtained to constitute a minor in this language. However, students who intend to do graduate work will find the elementary and intermediate courses very helpful in preparing for the examination in reading knowledge of German, which is required for most advanced degrees.

French

101-102. ELEMENTARY FRENCH—Fundamental principles of grammar, drill in pronunciation through the use of phonetic characters, together with conversation and dictation exercises in connection with the reading of simple texts.
Four hours credit each semester.

203. INTERMEDIATE FRENCH—Review of grammar and elementary composition. Modern texts will be read and discussed. Pre-requisite, French 102 or two years of high school French.
Three hours credit.

204. INTERMEDIATE FRENCH—A continuation of French 203. This course will be conducted partly in French, and texts will be used which may serve as an introduction to the study of French literature.
Three hours credit.

305. SURVEY OF FRENCH LITERATURE TO ROUSSEAU—A general introductory course with the principal emphasis on writers and tendencies of the Seventeenth and Eighteenth centuries.
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 movement.
Three hours credit.

307. MODERN NOVEL IN FRANCE—The course will be conducted in French. Study of representative novels of the Nineteenth and Twentieth centuries. Pre-requisite, French 204 or equivalent.
Three hours credit.

308. FRENCH CLASSICAL DRAMA—Conducted in French. Study of the versification and technique of selected plays of Corneille, Racine, and Moliere. Pre-requisite, same as French 307.
Three hours credit.

309. FRENCH 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, and Rousseau. (1933-34)
Three hours credit.

310. MODERN FRENCH POETRY—A study of the three movements in 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.

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 of providing those who wish to do technical reading with a working knowledge of the modern language. Pre-requisite, German 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.

Three hours credit.

Italian

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

Three hours credit each semester.

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. Pre-requisite, 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. (1932-33).

Three hours credit.

306. SURVEY OF MODERN SPANISH LITERATURE—May be taken independently of Spanish 306. For both courses the pre-requisite is Spanish 204 or its equivalent. The purpose of this course is to acquaint the student with the principal writers of Spain since 1700. (1932-33).

Three hours credit.

MUSIC

Work done in applied music, under approved instructors, may be given a limited amount of college credit. Students must have completed a high school course or its equivalent, be sufficiently advanced in the subject for which credit is desired, and have the approval of the Dean.

Application for such credit must be filed in the College Office and duly approved, accompanied by a payment of \$5.00 for each credit-hour. Following is the basis for credit:

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 co-ordinated into a major, such credits must be accompanied by studies in musical theory, as outlined in the catalog of Youngstown College, or by courses accepted in lieu thereof by the regularly constituted authorities.

Music 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.

Music 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.

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

Two hours credit each semester.

Music 201, 207. ADVANCED HARMONY—Three recitations each week. A continuation of Harmony 103 and 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. Pre-requisites, 101, 102, 103, 104.

Three hours credit each semester.

Music 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. Text—A History of Music, Pratt.

Two hours credit each semester.

Music 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. Text—The Art of Counterpoint, Kitson. Pre-requisites 101, 102, 103, 104, 201 and 202.

Two hours credit each semester.

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

Three hours credit each semester.

Music 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. Text, Musical Form, Cornell.

Three hours credit each semester.

PHILOSOPHY AND RELIGIOUS EDUCATION

301. INTRODUCTION TO PHILOSOPHY—An examination of the meaning, scope, methods, and value of philosophy, and of its relation to science, history, sociology, and religion.

Three hours credit.

302. ETHICS—The course covers the study of the nature, origin, and significance of the moral life as viewed from the standpoint of history, and with special application to present conditions.

Three hours credit.

PHYSICAL EDUCATION

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

One hour credit each semester.

103, 104. PHYSICAL EDUCATION AND HYGIENE (Women)—Three hours each week. The course includes calisthenics, basketball, tennis, swimming, recreative games, folk and aesthetic dancing, personal hygiene. Required of Freshmen.

One hour credit each semester.

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

One hour credit each semester.

PHYSICS

The following courses of study, designed to satisfy the common interests of the research physicist, the teacher and the engineer, may be altered under the guidance of the head of the department to meet the needs of the individual student.

201-202. GENERAL COLLEGE PHYSICS—A general course in the fundamentals of physical science. The first semester ordinarily includes the study of mechanics, heat, and sound, the second semester being devoted to electricity, magnetism, and light. Lecture and recitation, three hours, and two two-hour laboratory periods per week. Pre-requisite, a Sophomore standing. Trigonometry highly desirable.

Five hours credit each semester.

211-212. SURVEYING—One hour of lecture or recitation and three or six hours of field work each week. A course intended to give the fundamental principles of surveying, fitting one to make practical application of the knowledge and skill acquired. Usually offered in summer. Pre-requisite, Trigonometry.

Two or three hours credit each semester.

303. ELECTRICITY AND MAGNETISM—An advanced course offered to engineering students and those majoring or minoring in physics. Pre-requisite Physics 202.

Three hours credit.

305-306. ELECTRICAL MEASUREMENTS—This is a laboratory course which must be accompanied by or preceded by Physics 303.

Two hours credit each semester.

308. THERMODYNAMICS—Pre-requisites, Physics 201, and Mathematics 209.

Three hours credit.

314. ANALYTICAL MECHANICS—Offered as Mathematics 314, but may be counted toward a major in Physics.

Three hours credit.

PSYCHOLOGY

201. GENERAL PSYCHOLOGY—An introduction to the fundamental principles of human behaviour. This includes a brief survey of the field, the relationship of physiological structure to behavior, leading to the study of the nature and development of motives, perception, various dynamic phases of consciousness, and the integration of personality. Pre-requisite to all other courses in the field.

Three hours credit.

202. EDUCATIONAL PSYCHOLOGY—A study of those principles and laws of psychology that form the basis for rational education and apply to the problems of the school. Pre-requisite, Psychology 201.

Three hours credit.

203. CHILD PSYCHOLOGY—A study of the development of the child; his structure and its functioning; his motivations, care, and social adjustments. Pre-requisite, Psychology 201.

Three hours credit.

204. SOCIAL PSYCHOLOGY—A study of psychological principles and methods applied to social problems and factors influencing social life. Pre-requisite, Psychology 201.

Three hours credit.

301. APPLIED PSYCHOLOGY—A study of the problems, methods and results of the application of psychological principles to professional and other fields. Pre-requisite, Psychology 201.

Three hours credit.

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

Three hours credit.

SOCIAL SCIENCE

Economics

102. INDUSTRIAL HISTORY—This course traces the development of a number of American industries up to the present time and furnishes a background for further economic study.

Three hours credit.

201. PRINCIPLES OF ECONOMICS—A study of the laws of production, exchange, distribution, and consumption of goods, the fundamentals of wealth, and an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, and wages. Designed for freshmen and sophomores.

Three hours credit.

201a. PRINCIPLES OF ECONOMICS—Same as course 201, except in a more condensed form. (Offered in the evening).

Two hours credit.

202a. PRINCIPLES OF ECONOMICS—Continuation of Course 201a.

Two hours credit.

204. LABOR PROBLEMS—The object of this course is to give a historical and critical study of the labor movement in this country and in England. Special attention is given to trade unions, strikes, conciliation, and arbitration. Pre-requisite, Economics 201, 202.

Three hours credit.

207. FINANCIAL INSTITUTIONS—This course deals with money, banking, securities, insurance, etc. A non-technical study of the various financial institutions with which the average person comes in contact. Pre-requisite, Economics 201, 202.

Three hours credit.

301. TAXATION—A general treatment of the principles and practice of taxation with special reference to methods and conditions in the United States. Pre-requisite, Economics 101.

Three hours credit.

303. ECONOMIC DEVELOPMENT IN MODERN EUROPE—A study of the development of the institutions of agriculture and manufacture from the beginning of the Industrial Revolution to the present day in England, France, Germany, and Russia. Pre-requisite, Economics 101.

Three hours credit.

307. MONEY AND BANKING—A study of the functions and services of money, regulation of currency, modern financial structure, the operation of investment and commercial banks, and the federal reserve system. Pre-requisite, Economics 202. (Offered 1934-35.)

Three hours credit.

History

Students majoring in history should distribute their work between American and European history and include Course 400. They are strongly advised to elect two years each of German and French, and elect at least the introductory courses in Political Science, Economics, Geography, and Sociology.

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.

201. HISTORY OF THE UNITED STATES TO 1828—A study of the general political, social, and economic developments of the United States from the beginning of our history to the Jacksonian era. Designed for sophomores.

Three hours credit.

202. HISTORY OF THE UNITED STATES SINCE 1828—A continuation of 201 giving special emphasis to the quarter of a century which preceded the Civil War and the like period which followed. Designed for sophomores.

Three hours credit.

301. HISTORY OF GREECE—This course presents a comprehensive survey of Greek civilization and those phases of Greek life and culture which have influenced our present-day civilization. Not open to freshmen.

Three hours credit.

302. 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. Not open to freshmen.

Three hours credit.

307. RECENT DIPLOMATIC HISTORY—A detailed study of the currents of European diplomacy since 1871.

Three hours credit.

309. LATIN-AMERICAN HISTORY—Colonial Latin-America, and the development of the principle Latin-American countries.

Three hours credit.

400. PRO-SEMINAR—This course is designed primarily for students majoring in history and is based upon individual investigation and co-operative study of approved topics. This course gives an introduction into the methods and technique of graduate study in the social sciences. Pre-requisite, approval of the instructor.

Second semester in alternate years.

Two hours credit.

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.

305. AMERICAN POLITICAL PARTIES—A continuation of Political Science 305 with particular emphasis on political parties. Pre-requisites, Political Science 305.

Three hours credit.

306. COMPARATIVE EUROPEAN GOVERNMENTS—

Three hours credit.

310. AMERICA'S FOREIGN POLICY—This course is a full and detailed study of the facts of our foreign policy through the entire period of our history from the French Alliance in 1788 through the World War and the many conferences since that time.

Three hours credit.

Sociology

301. PRINCIPLES OF SOCIOLOGY—A study of the fundamental ideas and principles of sociology. Also a study of the origins and proposed solutions of some of our modern social problems. Text book, assigned readings and discussions.

Three hours credit.

304. SOCIAL PATHOLOGY—A study of the social problems of society.

Three hours credit.

Professional

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.

Suggested Course of Study for THE DEGREE OF BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

First Year

First Semester		Second Semester	
English 101	3 hrs.	English 102	3 hrs.
Chemistry 109-111		Chemistry 110-112	
or		or	
Biology 103	4 hrs.	Biology 108	4 hrs.
Business Organization 101	3 hrs.	Geography 102	3 hrs.
Mathematics 111	2 hrs.	Mathematics 112	2 hrs.
Psychology 201	3 hrs.	Economics 102	3 hrs.
Physical Education 101	1 hr.	Physical Education 102	1 hr.
	<hr/>		<hr/>
	16 hrs.		16 hrs.

Second Year

First Semester		Second Semester	
Accounting 201	3 hrs.	Accounting 202	3 hrs.
Economics 201	3 hrs.	Economics 202	3 hrs.
Language 101	4 hrs.	Language 102	4 hrs.
Law 201—Contracts; Agency	3 hrs.	Law 202—Partnership; Corp.	3 hrs.
English 115	2 hrs.	English 116	2 hrs.
Physical Education 205	1 hr.	Physical Education 206	1 hr.
	<hr/>		<hr/>
	16 hrs.		16 hrs.

Third Year

First Semester		Second Semester	
Accounting 303 (Cost)	2 hrs.	Accounting 304 (Cost)	2 hrs.
Economics 307	3 hrs.	Business Organization 321	3 hrs.
Bus. Organization 311	3 hrs.	Business Organization 322	3 hrs.
Law 303—Bailments; Carriers	2 hrs.	Law 304—Bankruptcy; Debtor	2 hrs.
English—Bus. Letters	2 hrs.	English—Bus. Letters	2 hrs.
Elective	3 hrs.	Elective	3 hrs.
	<hr/>		<hr/>
	15 hrs.		15 hrs.

Fourth Year

First Semester		Second Semester	
Accounting 301	2 hrs.	Accounting 302	2 hrs.
Business Organization (Industrial Org. & Mgmt.).....	2 hrs.	Business Organization 315 (Corp. Finance)	2 hrs.
Electives	12 hrs.	Electives	12 hrs.
	16 hrs.		16 hrs.

EVENING CLASSES

The suggested course of study below is for students who are employed during the day and must take their work in evening classes. The most essential courses preparing for the fields of accounting and business administration are included in this course of study. Evening classes are in session Monday and Thursday evenings between the hours of seven and ten. All of these courses may be applied toward the Bachelor of Arts degree in Business Administration.

SUGGESTED COURSE OF STUDY FOR EVENING STUDENTS

(This course is taken in four years, the student attending class two evenings a week.)

First Year

First Semester		Second Semester	
Theory of Accounting 201a	2 hrs.	Theory of Accounting 202a	2 hrs.
English, 101	3 hrs.	English 102	3 hrs.
Law of Contracts and Agency 201a	2 hrs.	Law of Partnerships and Cor- porations 202	2 hrs.

Second Year

First Semester		Second Semester	
Cost Accounting 303	2 hrs.	Cost Accounting 304	2 hrs.
Economics 201a	2 hrs.	Economics 202a	2 hrs.
Law of Negotiable Instruments 303	2 hrs.	Law of Property and Bankruptcy 304	2 hrs.

Third Year

First Semester		Second Semester	
Accounting Theory and Practice 301	2 hrs.	Accounting Theory and Practice 302	2 hrs.
Elective	2 hrs.	Elective	2 hrs.
Elective	2 hrs.	Elective	2 hrs.

Fourth Year

First Semester		Second Semester	
Auditing Theory and Practice 401	2 hrs.	Auditing Theory and Practice 402	2 hrs.
Elective	2 hrs.	Elective	2 hrs.
Elective	2 hrs.	Elective	2 hrs.

Electives

First Semester		Second Semester	
Federal Taxes 403, 404	4 hrs.	Investments 335	2 hrs.
Specialized Acct. 305	2 hrs.	Corp. Finance 315	2 hrs.
Interpretation of Financial Statements 307	2 hrs.	Business Statistics and Fore- casting 431	2 hrs.
Public Speaking 313	2 hrs.	Marketing 324a	2 hrs.
Credits & Collections 322a	2 hrs.	C. P. A. Quiz 405, 406	4 hrs.
Money & Banking 307	2 hrs.		

FEES AND EXPENSES

Students carrying a full load of work in the Department of Business Administration, that is from twelve to fifteen semester hours per semester, will please refer to the statement of expenses for full time students listed on page 14.

Students who are enrolled in evening classes only will please refer to the statement which follows:

TUITION FEES

(Per Semester)

All tuition is due and must be paid during the first week of the semester. Registration is not complete and admission to classes will not be approved until all tuition has been paid or payments arranged and agreed upon with the Business Manager.

One subject	\$25.00
Two subjects	40.00
Three subjects	50.00

A \$5.00 carrying charge will be added if not paid cash.

A graduation fee of \$5.00 will be charged.

Special examinations will be given as required. The fee will be \$2.00.

No extra charge will be made for registration.

DESCRIPTION OF COURSES

ACCOUNTING

201, 202. THEORY AND PRACTICE OF ACCOUNTING—This course consists of the theory of account construction together with the development of books of original entry, the application of accounting principles to the different forms of business organization, and the preparation and interpretation of financial statements.

Three hours credit each semester.

201a, 202a. THEORY AND PRACTICE OF ACCOUNTING—Same as Accounting 201, 202, except that the course is in a more condensed form. (Offered in the evening).

Two hours credit each semester.

301, 302. ADVANCED THEORY AND PRACTICE OF ACCOUNTING—A study of corporation accounting procedure and problems, treatment of capital stock and bond issues, depreciation, forms of income statements, consolidated balance sheets, branch house accounting and foreign exchange accounting. (Offered in the evening.) Pre-requisite, Courses 201a, 202a.

Two hours credit each semester.

303, 304. COST ACCOUNTING—General methods of collecting costs of material, labor, and burden, and incorporation of them in the books of account. Cost control, including the use of the perpetual inventory and various subsidiary ledgers. Various methods of distributing burden costs. Presentation cost date, and problems of cost accounting in multiple process industries. (Offered in the evening.) Pre-requisite, Courses 201a, 202a.

Two hours credit each semester.

305. SPECIALIZED ACCOUNTING—A course in specialized accounting for representative industries such as department stores, foundries, flour mills, banks, fire insurance companies and others. (Offered in the evening.) Pre-requisite, Courses 301, 302.

Two hours credit.

307. INTERPRETATION OF FINANCIAL STATEMENTS—An analysis of the fundamental principles involved in the proper construction and interpretation of financial statements such as manufacturing, selling, public utility, insurance and other types of companies. (Offered in the evening.) Pre-requisite, Courses 301, 302.

Two hours credit.

401, 402. AUDITING—An intensive course in auditing practice and procedure for advanced students in accounting. (Offered in the evening.) Pre-requisite, Courses 301, 302, 303, 304.

Two hours credit each semester.

403, 404. FEDERAL TAXES—This course gives special attention to income tax procedure, including such items as personal tax accounting, taxable and non-taxable incomes, deductions and losses, computation of taxes and typical problems. (Offered in the evening.) Pre-requisite, Courses 301, 302, 303, 304.

Two hours credit each semester.

405, 406. C. P. A. QUIZ—It is assumed that the candidates for this course will be familiar with accounting procedure applicable to single proprietorships, partnerships, and corporations. All phases of accounting that will be encountered in either private business or public accounting will be treated from the standpoint of both theory and practice. Special emphasis will be placed on coaching candidates for the C. P. A. examinations. The problem method will be followed in the main, supplemented by class discussions, lectures, and quizzes. (Offered in the evening.) Pre-requisite, Courses 301, 302, 303, 304.

Two hours credit each semester.

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, relationships between employer and employee, credit, banking, and elementary accounting.

Three hours credit.

201. BUSINESS LAW: CONTRACTS AND AGENCY—A course in the law of contracts and agency for the student of business. 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.

Three hours credit.

201a. BUSINESS LAW: CONTRACTS AND AGENCY—Same as course 201, except in a more condensed form. (Offered in the evening.)

Three hours credit.

202. BUSINESS LAW: PARTNERSHIPS AND CORPORATIONS — A course designed to give the student in business a practical working knowledge of important laws governing the formation and operation of partnerships and corporations. (Offered in the evening.) Pre-requisite, Business Organization 201.

Two hours credit.

303. BUSINESS LAW: NEGOTIABLE INSTRUMENTS—A study of bailments and carriers, sales, negotiable papers, banks, and suretyship. (Offered in the evening.)

Two hours credit.

304. BUSINESS LAW: PROPERTY—This course covers estates, wills, bankruptcy, debtor and creditor. (Offered in the evening.)

Two hours credit.

311. CORPORATE ORGANIZATION—Deals with the general types of business organization, corporation costs and procedure, taxes, stock holders, rights, duties, liabilities, and inter-corporate relations. Pre-requisite, Economics 201.

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, co-operative plans and re-organizations. (Offered in the evening.)

Two 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. Pre-requisite, Economics 307.

Three hours credit.

322a. CREDITS AND COLLECTIONS—Same as course 322, except in a more condensed form. (Offered in the evening.)

Two hours credit.

324. MARKETING—A general survey of the field of Marketing. A study of marketing functions and policies and marketing institutions. Pre-requisite, Economics 201.

Three hours credit.

324a. MARKETING—Same as course 324, except in a more condensed form. (Offered in the evening.)

Two hours credit.

325. SALESMANSHIP—The course covers knowledge of goods, study of customers and their wants, buying motives, planning a sale, attitudes of buyer, meeting objections, closing the sale, cultivation of personality, problems in sales management, sales organization, sales planning and research, and others. (Offered in the evening.)

Two 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. (Offered in the evening.)

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 advertisements. (Offered in the evening.) Pre-requisite, Business Organization 327.

Two hours credit.

335. INVESTMENTS—A study of capital and its supply and demand, return on invested capital, classification and analysis of securities, types of investments to meet special needs, calculation of return on investments, how to buy and sell securities and investment forecasting. (Offered in the evening.) Pre-requisite, Business Organization 311.

Two hours credit.

431. BUSINESS STATISTICS AND FORECASTING—The use of charts, graphs and statistics as a means of control in business. The use of price and production index numbers. A study of the periodic rise and fall of business as a training in developing foresight is the most valuable of business assets. (Offered in the evening.)

Two hours credit.

ECONOMICS

See Social Science under Liberal Arts section.

ENGLISH

See English under Liberal Arts section.

EDUCATION

The Department of Education of Youngstown College will be devoted to the preparation of young men and women for the teaching profession. The subjects offered afford opportunities for securing theoretical knowledge and practical experience in this vocation, and are the subjects usually required by state laws. Students taking the Teacher Training Course suggested below should see that the major, minor and group requirements for the A. B. degree (see page 16) are completed, as well as the requirements of the State Department of Education, i. e., one teaching major (18 hours) and two teaching minors (12 hours each). For professional requirements, see following page.

SUGGESTED CURRICULUM FOR TEACHER TRAINING COURSE

First Semester

Second Semester

Freshman Year

Freshman English 101	3 hrs.	Freshman English 102	3 hrs.
Foreign Language	3-4 hrs.	Foreign Language	3-4 hrs.
Laboratory Science	3-4 hrs.	Laboratory Science	3-4 hrs.
Physical Education	1 hr.	Physical Education	1 hr.
Electives	6-4 hrs.	Electives	6-4 hrs.

Sophomore Year

Psychology 201	3 hrs.	Educational Psychology 202	3 hrs.
		(Including four observations)	
Social Science	3 hrs.	Social Science	3 hrs.
Physical Education	1 hr.	Physical Education	1 hr.
Electives	9 hrs.	Electives	9 hrs.

Junior Year

History of Education 300	3 hrs.	School Administration 304	3 hrs.
		(Including four observations)	
Introduction to Teaching 302	3 hrs.	Tests and Measurements 306	2 hrs.
		Educational Sociology 308	2 hrs.
Electives	10 hrs.	Electives	9 hrs.

Senior Year

Principles of Teaching 400	3 hrs.	Student Teaching	3-5 hrs.
High School Methods	2 hrs.		
(Including six observations)		High School Methods	2 hrs.
Student Teaching	3-5 hrs.		
Electives	8-6 hrs.	Electives	11-9 hrs.

The group of strictly professional courses required by the State Department of Education of all candidates for provisional certificates shall include:

Subjects:	Semester Hours		
	H. S.	Elem.	Spec.
Educational Psychology (including 4 observations. Pre-requisite; a course in General Psychology.)	2 or 3	2 or 3	2 or 3
Principles of Teaching (6 observations)	2 or 3	2 or 3	2 or 3
Administration, Organization, and Management. (4 observations)	2 or 3	2 or 3	2 or 3
Methods (6 observations)	2	6	2 or 4
Electives enough when added to the courses above to total:— (Chosen from list below)	14	14	14
History of Education			3
Introduction to Teaching	2 or 3		
Tests and Measurements	2 or 3		
Educational Sociology	2 or 3		
School Law			2
Student Teaching (Number of hours determined by the attainment of proficiency of the student)	3 to 5	3 to 5	3 to 5
Public School Music		3	
Physical Education		2	
Art		2	
Total professional requirements	<u>17 to 19</u>	<u>24 to 26</u>	<u>17 to 19</u>

DESCRIPTION OF COURSES

300. HISTORY OF EDUCATION—A study of the great educational periods and tendencies of history, tracing the development of educational content and method through the various educational movements of modern times.

Three hours credit.

302. INTRODUCTION TO TEACHING—A general survey of the field of teaching, including preparation of lessons, problems of discipline, and general problems of administration.

Three hours credit.

304. SCHOOL ADMINISTRATION—A study of the organization of courses, the routine of administrative work, and the management of the school plant.

Three hours credit each semester

306. TESTS AND MEASUREMENTS—A general examination of the various systems of educational measurements as well as a detailed study of some of the forms of tests. A study is made of the applications of the results of tests.

Two hours credit.

308. EDUCATIONAL SOCIOLOGY—A consideration of the individual and society as two fundamental elements in the educational process, their relations, and the part each plays in the common life process.

Two hours credit.

400. PRINCIPLES OF TEACHING—Offered in connection with practice teaching. The course includes readings and reports, but is primarily based upon the teaching which is being done and the problems arising from it are given special attention. The course is designed to make the practice teaching more effective and to bring educational theory into practice.

Three hours credit.

202. EDUCATIONAL PSYCHOLOGY—A study of those aspects of psychology which form the basis for rational education, and their application to the problems of the school. Pre-requisite, Psychology 201.

Three hours credit.

LAW

The entire Department of Law of Youngstown College is in the process of reorganization at the present time.

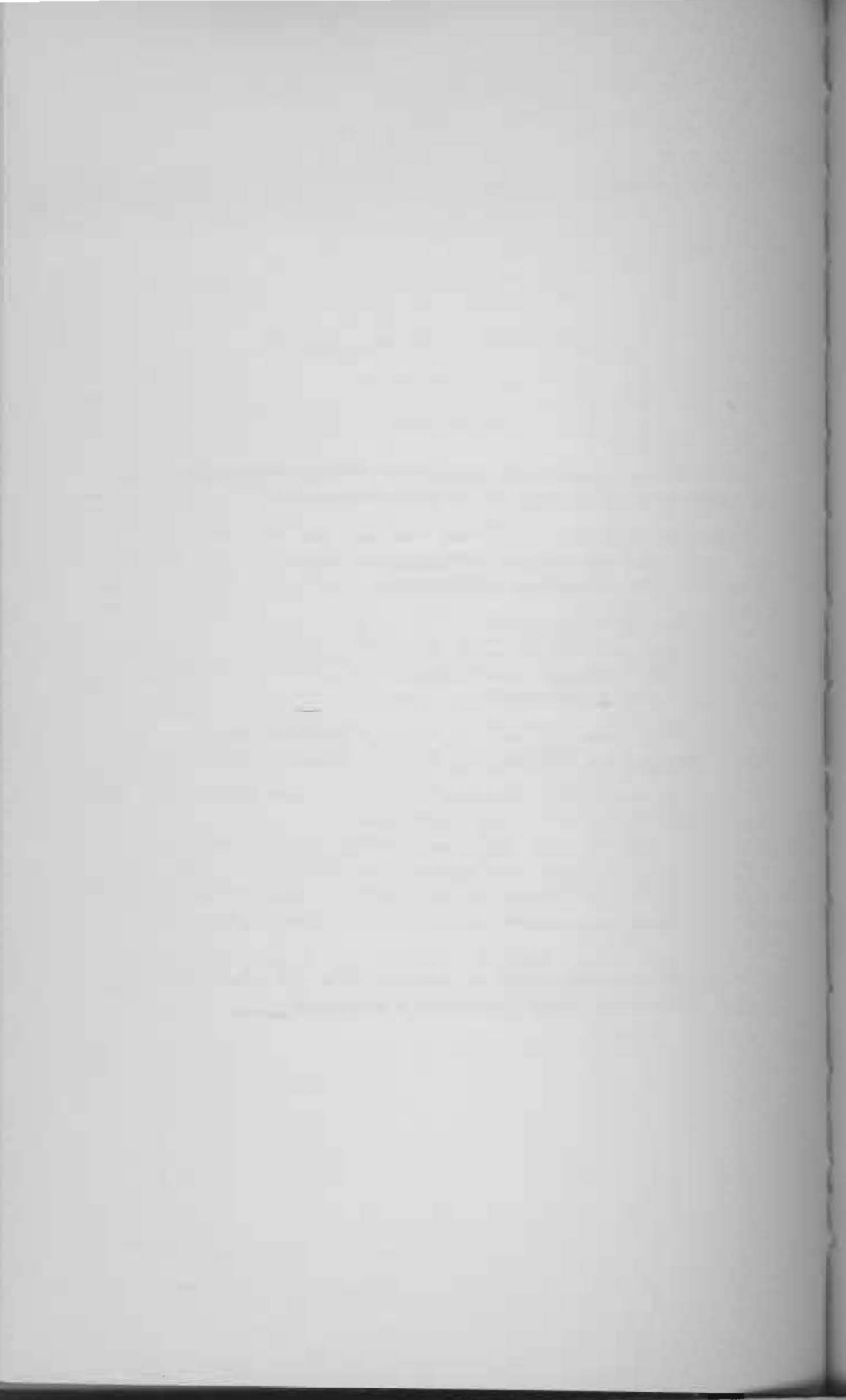
Students who are ready for the last year of Law this Fall will carry the following subjects: Real Property I, II, and III, Quasi Contracts, Negotiable Instruments, Sales, and Bailments and Carriers.

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

Beginning with the Fall of 1935, a Bachelor of Arts degree will be required for admission to the Law School.

Students who have completed three full years of work in the Youngstown College of Liberal Arts are eligible to enroll as Freshmen in the Law School. After completion of the first two years of the Law School, they may receive their Bachelor of Arts degree from the College of Liberal Arts. At the completion of the law course, students are granted the Bachelor of Laws degree.

A supplementary bulletin covering the Department of Law of Youngstown College will be issued within the next few weeks, as soon as the work of reorganization is completed.



Pre-Professional

COURSES IN ENGINEERING

An increasingly large number of students of engineering are finding it profitable to complete the requirements for an A. B. degree in a liberal arts college before taking up the more specialized work of the engineering school. The advantages of this procedure are many. If sufficient work in the sciences is taken during the arts course the time of graduation from the engineering school is delayed but two years or less. This delay is, in many cases, a distinct advantage to the student in view of the early age at which many students now enter college. At the same time a liberal arts course forms a cultural background which should be found helpful to the engineer who may have executive and administrative duties along with his more technical work.

To meet this need, Youngstown College offers a four-year pre-engineering course leading to an A. B. degree in chemistry, mathematics, or physics. The suggested electives, both in the major and in other fields, are chosen and, in several cases, designed with the special requirements of the engineering student in mind. The student who completes this course in a satisfactory manner should not find it difficult to complete his work in an engineering school in two additional years.

Those students who find it impossible or undesirable to complete their work for an A. B. degree may modify their schedule in such a way that they may enter the third year of an engineering school after completing three years in Youngstown College. This modification is suggested in the three-year curriculum.

Students following the cooperative engineering curriculum as being worked out by Youngstown College will start on the cooperative basis after completing the first two years work.

Pre-Engineering Three-Year Plan

First Semester

Second Semester

First Year

Mathematics 111	2 hrs.	Mathematics 112	2 hrs.
Mathematics 103	3 hrs.	Mathematics 114	3 hrs.
Chemistry 109 or 111	4 hrs.	Chemistry 110 or 112	4 hrs.
Engineering Drawing 101	4 hrs.	Descriptive Geometry 102	4 hrs.
English 101	3 hrs.	English 102	3 hrs.
Physical Education 101	1 hr.	Physical Education 101	1 hr.

Second Year

Calculus 209	5 hrs.	Calculus 210	5 hrs.
Chemistry 209	5 hrs.	Chemistry 203	5 hrs.
Physics 201	5 hrs.	Physics 202	5 hrs.
Physical Education 205	1 hr.	Physical Education 206	1 hr.

Third Year

Differential Equations 315	3 hrs.	Analytical Mechanics 314	3 hrs.
Economics 201	3 hrs.	Economics 202	3 hrs.
Language or Approved Elective	4 hrs.	Language or Approved Elective	4 hrs.

(Industrial Chemistry Option)

Organic Chemistry 304	5 hrs.	Organic Chemistry 306	3 hrs.
Physical Chemistry 311	3 hrs.	Physical Chemistry 312	3 hrs.

(Metallurgical Chemistry Option)

Physical Chemistry 311	3 hrs.	Physical Chemistry 312	3 hrs.
Metallurgy 313	2 hrs.	Metallurgy 316	2 hrs.

(Mechanical and Electrical Option)

Electricity 303	3 hrs.	Thermodynamics 308	3 hrs.
Electricity Lab. 305	2 hrs.	Electricity Lab. 306	2 hrs.

Four-Year Engineering Course Leading To An

A. B. Degree, Major in Chemistry

First Semester

Second Semester

First Year

Mathematics 111	2 hrs.	Mathematics 112	2 hrs.
Mathematics 103	3 hrs.	Mathematics 114	3 hrs.
Chemistry 109 or 111	4 hrs.	Chemistry 110 or 112	4 hrs.
Engineering Drawing 101	4 hrs.	Descriptive Geometry 102	4 hrs.
English 101	3 hrs.	English 102	3 hrs.
Physical Education 101	1 hr.	Physical Education 102	1 hr.

Second Year

Calculus 209	5 hrs.	Calculus 210	5 hrs.
Chemistry 209	5 hrs.	Chemistry 203	5 hrs.
Physics 201	5 hrs.	Physics 202	5 hrs.
Physical Education 205	1 hr.	Physical Education 206	1 hr.

Third Year

Differential Equations 315	3 hrs.	Analytical Mechanics 314	3 hrs.
Economics 201	3 hrs.	Economics 202	3 hrs.
Foreign Language	4 hrs.	Foreign Language	4 hrs.
Organic Chemistry 304	5 hrs.	Organic Chemistry 306	3 hrs.
Metallurgy 313	2 hrs.	Metallurgy 316	2 hrs.

Fourth Year

Physical Chemistry 311	3 hrs.	Physical Chemistry 312	3 hrs.
Prin. of Chem. Eng. 325	3 hrs.	Prin. of Chem. Eng. 326	3 hrs.
Psychology 201	3 hrs.	Psychology 202	3 hrs.
Foreign Language	3 hrs.	Elective	3 hrs.
Elective	3 hrs.	Foreign Language	3 hrs.

**Four-Year Pre-Engineering Course For A. B. Degree
With Major in Physics or Mathematics**

First Semester

Second Semester

Freshman Year

College Algebra 111 .....2 hrs.	College Algebra 112 .....2 hrs.
Trigonometry 103 .....3 hrs.	Analytic Geometry 114 .....3 hrs.
Chemistry 109 or 111 .....4 hrs.	Psychology 202 .....3 hrs.
Engineering Drawing 101 .....4 hrs.	Chemistry 110 or 112 .....4 hrs.
English 101 .....3 hrs.	Descriptive Geometry 102 .....4 hrs.
Physical Education 101 .....1 hr.	English 102 .....3 hrs.
	Physical Education 102 .....1 hr.

Sophomore

Calculus 209 .....5 hrs.	Calculus 210 .....5 hrs.
Physics 201 .....5 hrs.	Physics 202 .....5 hrs.
Chemistry 209 .....5 hrs.	Chemistry 203 .....5 hrs.
Physical Education 205 .....1 hr.	Physical Education 206 .....1 hr.

Junior Year

Differential Equations 315 .....3 hrs.	Analytical Mechanics 314 .....3 hrs.
Electricity 303 .....3 hrs.	Thermodynamics 308 .....3 hrs.
Electricity Lab. 305 .....2 hrs.	Electricity Lab. 306 .....2 hrs.
Economics 201 .....3 hrs.	Economics 202 .....3 hrs.
Foreign Language .....3 or 4 hrs.	Foreign Language .....3 or 4 hrs.

Senior Year

Theory of Light 401 .....3 hrs.	Modern Physical Theory 404 .....3 hrs.
or Vector Analysis 421 .....3 hrs.	or History of Mathematics 432 .....3 hrs.
Surveying 211 .....2 hrs.	Surveying 212 .....2 hrs.
Psychology 201 .....3 hrs.	Psychology 202 .....3 hrs.
Foreign Language .....3 hrs.	Foreign Language .....3 hrs.
Electives .....5 hrs.	Electives .....5 hrs.

PRE-MEDICAL COURSE

The minimum entrance requirements of schools of medicine of good standing are two years of college work. This work must include certain prescribed courses. Many schools require three years work for entrance and some favor the completion of the work for an A. B. degree before entering. A constantly increasing number of students, if not above the average age, are taking three years of college work or meeting the requirements for an A. B. degree with four years work before entering a school of medicine.

Medical schools throughout the country are crowded and only those students whose pre-medical work in college is of superior quality can expect to be admitted to any first class medical college.

The following four-year curriculum is suggested with the work so arranged that at the end of the second year the generally required pre-medical work on a two-year plan is met. It may be varied to meet the special requirements of any particular medical school which the student would like to enter. An A. B. in chemistry will be granted on completion of the four-year schedule.

Four-Year Pre-Medical Course

First Semester

Second Semester

First Year

English 101	3 hrs.	English 102	3 hrs.
Chemistry 109 or 111	4 hrs.	Chemistry 110 or 112	4 hrs.
French 101 or German 101	4 hrs.	French 102 or German 102	4 hrs.
Biology	4 hrs.	Biology	4 hrs.
Physical Education 101	1 hr.	Physical Education 102	1 hr.

Second Year

Chemistry 209	5 hrs.	*Chemistry 205	3 hrs.
Physics 201	5 hrs.	*Chemistry 207	2 hrs.
French 203 or German 201	3 hrs.	French 204 or German 202	3 hrs.
Psychology 201	3 hrs.	Psychology 202	3 hrs.
Physical Education 205	1 hr.	Physical Education 206	1 hr.

Third Year

Chemistry 304	5 hrs.	Chemistry 315	3 hrs.
Chemistry 306	3 hrs.	Chemistry 318	2 hrs.
Mathematics 111	2 hrs.	Mathematics 112	2 hrs.
Mathematics 103	3 hrs.	Mathematics 114	3 hrs.
Elective	2 hrs.	Elective	5 hrs.

Fourth Year

Chemistry 311	3 hrs.	Chemistry 312	3 hrs.
Mathematics 209	5 hrs.	Mathematics 210	5 hrs.
Elective	7 hrs.	Elective	7 hrs.

*If taking three-, or four-year program, substitute Chemistry 203 for Chemistry 205 and Chemistry 207.

STUDENTS' 1932-1933

Liberal Arts

- Abramovitz, Nathan, Youngstown
 Alcorn, Elizabeth, Youngstown
 Aley, Clyde, Youngstown
 Aley, Howard, Youngstown
 Aley, Robert, Youngstown
 Allison, John, Youngstown
 Anderson, Mrs. Emma, Youngstown
 Andrews, Betty, Youngstown
 Andrews, George, Youngstown
 Axelson, Albert, Youngstown

 Backus, Helen, Youngstown
 Bagnall, Marietta, Youngstown
 Bakody, Jack, Youngstown
 Barker, Mary L., Warren
 Barker, Wm., N. Lima
 Barliak, Paul, Campbell
 Barnes, Grace, Youngstown
 Bayowski, Emil, Youngstown
 Beaumier, George, Hubbard
 Beckett, Marguerite, Youngstown
 Berardi, Carmel, Youngstown
 Best, William, Youngstown
 Bird, Marjory, Youngstown
 Bishop, Julia, Poland
 Black, Elaine, Youngstown
 Black, Ruth, Youngstown
 Blackmer, Florene, Struthers
 Blair, Wilbur, Youngstown
 Blott, Regina, Youngstown
 Bluman, J. E., Youngstown
 Boccia, Ralph, Youngstown
 Bode, Rose, Youngstown
 Bokesch, Martin, Youngstown
 Bothwell, Mildred, Youngstown
 Bower, Ethel, Youngstown
 Bower, Marian, Youngstown
 Bownas, William, Youngstown
 Boylan, Mary, Youngstown
 Brungard, Elizabeth, Youngstown
 Brenner, Jeanne, Youngstown
 Brooks, Dean, W. Middlesex, Pa.
 Brown, Braden, Youngstown
 Brown, Olive, Hubbard
 Brown, Walter S., Youngstown
 Brungard, Elizabeth, Youngstown
 Bush, Betty, Youngstown

 Cacceno, Arthur, Youngstown
 Caggiano, Vincent, Youngstown
 Cain, Raymond, Youngstown
 Centofante, Alfred, Youngstown
 Chambers, Lenore, Canfield
 Chappell, Winnifred, Youngstown

 Cheatham, John, Youngstown
 Cherry, Ruth, Youngstown
 Christmas, Eli, Youngstown
 Chubbs, Jay, Youngstown
 Cianciola, Josephine, Youngstown
 Clair, Mary, Youngstown
 Codrea, Ray, Youngstown
 Cole, Robert, Youngstown
 Comminos, Peter, Youngstown
 Coope, Fred, Youngstown
 Cooper, David, Youngstown
 Cooper, Mary, Struthers
 Cooper, Ruth, Struthers
 Corben, Hugh, Warren
 Cowdery, Ruth, Hartford
 Craig, R. D., Youngstown
 Crawford, Elizabeth, Youngstown
 Crawford, Raymond, Cortland
 Crider, Alice, Niles
 Crum, Hertie, New Middletown

 Danford, Charles, Niles
 Darlington, Melvin, Youngstown
 Davis, Lawrence, Niles
 DelBene, Frank, Girard
 Dellenberger, Marjorie, Youngstown
 Denny, C. C., Cortland
 Deutsch, Anna, Girard
 Devine, Dennis, Youngstown
 Diacandrew, Michael, Youngstown
 Dickson, Mae, Youngstown
 Diehl, Margaret, Niles
 Dingleddy, Carl, Youngstown
 Diser, Saxon, Youngstown
 Dolak, Anne, Youngstown
 Dolwick, Loretta, Youngstown
 Donahue, Edward, Youngstown
 Donahue, John, Youngstown
 Donnan, Jeanne, Youngstown
 D'Onofrio, Michael, Youngstown
 Downing, Margaret, Youngstown
 Drage, Jean, Youngstown
 Dray, Marie, Youngstown
 Dustman, Charlotte, Youngstown
 Dzuroff, Stephen, Youngstown

 Eddy, Robert, Youngstown
 Eddy, Thomas, Youngstown
 Elder, S. Fulton, Youngstown
 Elser, Donald, N. Lima
 Elser, R. E., N. Lima
 Engram, William, Youngstown
 Estulin, Abe, Youngstown
 Evereth, Margaret, Youngstown

Farragher, Georgiana, Youngstown
 Fell, John, Youngstown
 Feren, Fay, Youngstown
 Finney, Drayton, Youngstown
 Fithian, Margaret, Youngstown
 Fitzgerald, Genevieve, Youngstown
 Flaherty, Alfred, Youngstown
 Fleck, Ben, Warren
 Freed, Vance, Youngstown
 Freed, Virgil, Youngstown
 Friedrich, Marguerite, Youngstown
 Furdas, Olga, Youngstown

Gabor, Joseph, Youngstown
 Galizia, John, Hillsville, Pa.
 Gambrel, Louis, Youngstown
 Gambrel, Mary L., Youngstown
 Garrison, Bernice, Youngstown
 Garwood, Irene, Youngstown
 Gateman, David, Youngstown
 Gillam, James, Youngstown
 Gluck, Fred, Youngstown
 Gogech, Mathilda, Campbell
 Goodridge, William, Youngstown
 Gough, Virginia, Struthers
 Gracey, Cora, Poland
 Graham, Virginia, Youngstown
 Grant, Donald, Youngstown
 Greenwood, Esther, Youngstown
 Griffith, Rachel, Youngstown
 Griffiths, John R., Youngstown
 Grizinski, John, Youngstown
 Grubb, Elizabeth, Youngstown
 Gubbin, Mrs. J. D., Youngstown
 Gue, Ruth, Youngstown
 Gulanish, Helen, Youngstown
 Gulanish, Sally, Youngstown
 Gulfo, Frank, Youngstown

Hubuda, Ted, Youngstown
 Hahn, Barbara, Youngstown
 Hain, Morris, Youngstown
 Hake, Lillian, Sharon
 Halferty, Arthur, Youngstown
 Hall, Anna, Youngstown
 Hall, Helen, Youngstown
 Hall, Jane, Youngstown
 Hall, William, Youngstown
 Hamilton, Myron, Youngstown
 Hampton, Frank, Youngstown
 Hardman, Mrs. J. E., Youngstown
 Harness, Joseph, Youngstown
 Haroff, John, Youngstown
 Hartman, William, Youngstown
 Harrit, Mable, Youngstown
 Harrington, Edward, Youngstown
 Harskowitz, Louis, Youngstown
 Hart, Lawrence, E. Palestine

Hastings, Helena, Youngstown
 Hathaway, Richard, Youngstown
 Hawkins, Pearl, Youngstown
 Hedland, Elna, Youngstown
 Helm, David, Youngstown
 Helm, Lucille, Youngstown
 Herald, Jack, Youngstown
 Herbert, William, Youngstown
 Hercules, Mary, Youngstown
 Herman, Vincent, Youngstown
 Hewitt, Eloise, Youngstown
 Higgins, Edna, Youngstown
 Hill, Margaret, Struthers
 Hites, William, Jr., Youngstown
 Hoehnle, Harry, Youngstown
 Hofmeister, Russell, New Castle, Pa.
 Hogan, Helen, Youngstown
 Holley, Marian, Struthers
 Holley, Raymond, Struthers
 Howalt, Mrs. Ida Belle, Youngstown
 Howard, Marian, Youngstown
 Humble, James, Youngstown
 Humphrey, Edward, Youngstown

Inglis, Harriet, Youngstown
 Irvin, Elizabeth, Youngstown

James, Mary O., Youngstown
 Joanta, Victoria, Youngstown
 John, E. W., Youngstown
 Johnson, Harold, Struthers
 Johnson, Martin, Youngstown
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 Johnston, William, Lowellville
 Jones, Catherine, Youngstown
 Jones, Ethel, Niles
 Jones, Gladys, Youngstown
 Julius, Albert, Youngstown

Kaufman, Pauline, Youngstown
 Kelly, Thomas, Youngstown
 Kemp, Fred, Youngstown
 Kenaston, Herbert, Youngstown
 Kerr, George, Youngstown
 Keyser, Florence, Youngstown
 King, Virginia, Youngstown
 Kinyurski, Joseph, Girard
 Kirkner, William, Youngstown
 Kirtley, Thomas E., Palestine
 Klarich, Ivan, Youngstown
 Klarich, William, Youngstown
 Kline, H. L., Niles
 Kopp, Tania, Youngstown
 Kreuzwieser, Phylis, Youngstown
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 Kunicki, Bennett, Campbell

LaBelle, Fred, Jr., Youngstown
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 Leidy, Grace, Youngstown
 Leshner, Marlea, Youngstown
 Lessner, Milton, Youngstown
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 Lewis, Robert, Youngstown
 Leyshon, Randall, Girard
 Lindsay, David, Struthers
 Lindsay, Sadie, Struthers
 Lloyd, Owen, Youngstown
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 Lohrman, Robert, Youngstown
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 Luca, Victoria, Farrell, Pa.
 Lyden, Coletta, Youngstown
 Lyden, Dan, Youngstown
 Lyden, Vincent, Youngstown
 Lyden, William, Youngstown
 Lynch, Jack, Youngstown

MacDonald, Thomas, Hubbard
 MacDonald, William, Hubbard
 MacKay, Edward, Youngstown
 McAndrews, Joseph, Youngstown
 McBride, Ethel, Youngstown
 McCallister, Charles, Youngstown
 McCandless, Donald, Farmdale
 McCleary, Elmer, Youngstown
 McClurg, James, Youngstown
 McComas, Luella, Youngstown
 McCorkle, Lloyd, Warren
 McCracken, Chester, Youngstown
 McCune, Claire, Youngstown
 McDermott, Beatrice, Youngstown
 McFarland, Fred, Youngstown
 McGowan, Dr. J. F., Youngstown
 McKelvey, Marney, Youngstown
 McKenzie, Raymond, Youngstown
 McKnight, Freda, Youngstown
 McNicholas, Henry, Youngstown
 Macejko, Ted, Youngstown
 Madley, Violet, Niles
 Magnorto, Leonard, Farrell, Pa.
 Mahar, Mary, Youngstown
 Maine, Nicholas, Youngstown
 Major, Eileen, Youngstown
 Makres, Louis, Youngstown
 Malborn, Marjory, Youngstown
 Malkin, Milton, Youngstown
 Malmer, Anna, Youngstown
 Malmer, Michael, Youngstown
 Margo, Joseph, Youngstown
 Marinelli, Nellie, Youngstown
 Marks, James, Youngstown
 Maro, Michael, Campbell
 Marsico, Mrs. F. A., Youngstown
 Marsteller, Marjorie, Hubbard

Mason, Lydia, Youngstown
 Mastrantonio, Dominic, Youngstown
 Mastriani, Anne, Youngstown
 Matthews, Esther, Mineral Ridge
 Maze, Guyla, Youngstown
 Mecker, Dale, Youngstown
 Meshot, Fanny, Youngstown
 Messerly, Susan, Youngstown
 Michael, Albert, Youngstown
 Miglause, John, Youngstown
 Miller, Ethel, Youngstown
 Millikin, Howard, Youngstown
 Mohr, Howard, Struthers
 Montani, Mrs. A. C., Youngstown
 Moore, Albert, Youngstown
 Moore, Catherine, Youngstown
 Moreman, Virginia, Youngstown
 Morgan, Hannah, Youngstown
 Morris, Jerry, Youngstown
 Morrison, Margaret, Youngstown
 Morrow, Frank, Youngstown
 Morrow, Jayne, Youngstown
 Mulcahy, Charles, Youngstown
 Muldoon, Mrs. Emily, Youngstown
 Mullin, Nona, Youngstown
 Myers, Wilfred, Struthers

Naples, John, Youngstown
 Neilson, Ruth, Youngstown
 Nicholas, Shirley, Youngstown
 Nolan, Edgar, Youngstown
 Nolan, Helen, Youngstown
 Novotny, Jennie, Youngstown

O'Brien, James, Youngstown
 O'Connor, John, Youngstown
 Ockerman, George, Youngstown
 Opritza, Dan, Youngstown
 Opritza, Mary, Youngstown
 Orlando, Rose, Warren
 Owens, Nathalie, Youngstown

Paddock, Edwin, Youngstown
 Paden, Wilbur, Poland
 Parks, Ruth, Youngstown
 Passell, Sol, Youngstown
 Patterson, Jack, Youngstown
 Patton, N. Ray, Youngstown
 Penman, John, Youngstown
 Peterman, Leona, Youngstown
 Peterson, Harry, Youngstown
 Petrini, Victor, Youngstown
 Phillips, James, Youngstown
 Pleger, Mary Louise, Youngstown
 Poalise, Dominic, Youngstown
 Porembski, Theodore, Youngstown
 Pose, Isaac, Sharon, Pa.
 Potor, Aurelia, Campbell

- Powers, Gene, Campbell
 Price, Eunice, Youngstown
 Purucker, Fred, Poland
 Quaranto, Albert, Youngstown
 Radcliffe, Maurice, Youngstown
 Radik, Michael, Warren
 Ramage, Russell, Youngstown
 Randle, Edna, Youngstown
 Randle, Elsie, Youngstown
 Raupple, John, Youngstown
 Reid, Jean, Youngstown
 Reigleman, Alvin, Youngstown
 Rendinell, Mrs. D. F., Youngstown
 Rendinell, Rose Marie, Youngstown
 Reubendale, Robert, Youngstown
 Rich, James, Campbell
 Richards, Ronald, Youngstown
 Rice, Sue, Youngstown
 Riddle, Evelyn, Youngstown
 Rieser, Anne, Masury
 Ripple, Harold, Warren
 Roane, Florence, Youngstown
 Roberts, Dorothy, Youngstown
 Roberts, Eunice, Youngstown
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 Robinson, William, Youngstown
 Roemer, James, Youngstown
 Roemer, John, Youngstown
 Roller, Jane, Youngstown
 Romig, Fred, Youngstown
 Rose, Herbert, Youngstown
 Rosenbaum, James, Youngstown
 Rowland, Fred, Youngstown
 Roxbury, Thelma, Youngstown
 Ruback, Anne, Youngstown
 Rudbeck, Martha, Struthers
 Rudibaugh, John, Youngstown
 Rummell, June, Youngstown
 Sarnecchia, Teresa, Youngstown
 Schinker, George, Youngstown
 Schoenhard, George, Youngstown
 Schuller, George, Youngstown
 Scriven, Mrs. Ethel, Youngstown
 See, Walter, Youngstown
 Senczk, Stefena, Youngstown
 Shaffer, John, Lowellville
 Shale, Paul, Youngstown
 Shaw, Lois, Canfield
 Shields, Mrs. Ina, Youngstown
 Shields, Lysle, Youngstown
 Shields, Paul, Youngstown
 Showalter, Lillian, Youngstown
 Schwartz, Dorothy, Struthers
 Schwartz, Ralph, Youngstown
 Shultz, Robert, Youngstown
 Shutts, James, Youngstown
 Sirbu, John, Youngstown
 Slagle, Jack, Youngstown
 Slavin, Morris, Youngstown
 Smith, Arthur, Youngstown
 Smith, Earl, Youngstown
 Smith, Rosa, Youngstown
 Smith, William, McDonald
 Snyder, Helena, Youngstown
 Snyder, Russell, Youngstown
 Spain, Fully, Youngstown
 Sparks, Laura, Youngstown
 Spirtos, Michael, Youngstown
 Stambaugh, Ray, Youngstown
 Starr, Wilma, Youngstown
 Stone, Elgelena, Youngstown
 Stone, Willard, Youngstown
 Stroh, Edna, Youngstown
 Summers, Isabelle, Youngstown
 Symons, Arthur, Youngstown
 Tarten, Elvira, Youngstown
 Tecau, Troyan, Youngstown
 Terlecki, John, Youngstown
 Terry, William, Youngstown
 Thiel, Anne, Lowellville
 Thomas, Katherine, Mineral Ridge
 Thompson, Beryl, Youngstown
 Thompson, Edwin, Youngstown
 Thompson, Ernest, Pulaski, Pa.
 Trueman, James, Niles
 Turner, Dean, Youngstown
 Turner, Mary, Youngstown
 Turner, Scott, Youngstown
 Ullman, Janis, Youngstown
 Vinopal, Alvin, Youngstown
 Waddell, Martha, Youngstown
 Wagner, Stewart, Youngstown
 Waldman, Arthur, Youngstown
 Walker, Irene, Youngstown
 Walko, Elizabeth, Youngstown
 Walsh, T. Carl, Youngstown
 Walters, R. E., Youngstown
 Ward, Thelma, Youngstown
 Warner, Carl, Youngstown
 Warnock, Fred, Youngstown
 Way, Alice, Youngstown
 Weaver, Billy, Youngstown
 Welsh, Edward, Youngstown
 Welsh, Margery, North Lima
 Welsh, Mary Catherine, Youngstown
 Wetzel, Wayne, Youngstown
 Whetson, Vivian, Youngstown
 White, Sarah, Youngstown
 Whiteside, Frances, Youngstown
 Whiteside, Virginia, Youngstown

Whitmore, Hazel, Youngstown
 Wick, Eldridge, Youngstown
 Wighton, Laurabelle, Youngstown
 Wike, Eleanor, Youngstown
 Wildman, Glenn, Niles
 Wilkes, Margretta, Youngstown
 Wilkinson, Rebekah, Youngstown
 Williams, Eleanor, Youngstown
 Williams, James, Youngstown
 Wilson, Arnold, Niles
 Wilson, Mabel, Youngstown
 Wynyard, Gordon, Youngstown

Yarmy, Jean, Youngstown
 Yasechko, Joseph, New Middleton

Zamary, Fred, Youngstown
 Zawrotniak, Joseph, Youngstown
 Zhuck, Anna, Youngstown
 Zoss, Myron, Youngstown

BUSINESS ADMINISTRATION

Albrecht, Fred, Campbell
 Andrews, R. W., Wickliffe
 Ault, Jack, Youngstown
 Averbeck, Abraham, Youngstown
 Baldwin, Alvin, Youngstown
 Barker, Edward, Youngstown
 Bickler, Archie, Youngstown
 Birath, Louis, Youngstown
 Briggs, William, Youngstown
 Brown, Wilbur T., Youngstown
 Carrothers, I. G., Sharpsville, Pa.
 Cohen, Myron, Sharon, Pa.
 Coleman, Joseph, Sharon, Pa.
 Conner, Howard, Youngstown
 Cook, Karl, Youngstown
 Deuberry, Paul, Girard
 Dillon, Ralph, Youngstown
 Dunn, Howard, Youngstown
 Evans, William, Sharon, Pa.
 Fitzgibbon, John T., Youngstown
 Folsom, Ralph, Youngstown
 Gardner, Ruth, Youngstown
 Glassord, George, Youngstown
 Griffin, Hugh, Youngstown
 Haggerty, M. S., Warren
 Hammer, William, Youngstown
 Hardy, E. O., Youngstown
 Harrington, Edward, Youngstown
 Heinselmann, David, Youngstown
 Heist, C. H., Youngstown
 Herman, George, Youngstown
 Herrlich, John, Youngstown
 Higgins, Thomas, Youngstown
 Hogg, Malcolm, Youngstown
 Hone, Thomas, Girard
 Hornberger, J. W., Youngstown

Hull, Walter, Youngstown
 Hunsinger, Alvin, Youngstown
 Jacobs, Irving, Youngstown
 Johns, Howard, Youngstown
 Jones, E. B., Sharon, Pa.
 Kirwin, Frank, Youngstown
 Kline, Frank, Youngstown
 Kraja, Odell, Youngstown
 Kuzmack, Michael, Warren
 Laughlin, Edward, Youngstown
 McLaughlin, Francis, Youngstown
 Manley, Josephine, Youngstown
 Maple, George, Youngstown
 Mealy, Harry, Youngstown
 Morgan, Sam, Youngstown
 Norling, Victor, Girard
 Parthemos, Peter, Youngstown
 Phelan, William, Sharon, Pa.
 Putt, Thomas, Sharon, Pa.
 Roberts, F. A., Youngstown
 Rook, William, Youngstown
 Sammons, Emily, Niles
 Shaughnessy, Don, Youngstown
 Schmid, Carl, Youngstown
 Sieman, Harold, Warren
 Smith, A. D., Youngstown
 Stillson, Charles, Youngstown
 Thomas, James, Youngstown
 Thomas, W. Wendell, Girard
 Vance, John, Warren
 Wilson, Chalmers, Hubbard
 Wilson, J. H., Canfield
 Woodford, L. Earl, Brookfield
 Wyle, Joseph, Girard
 Zeigler, Charles, Youngstown
 Zimmerman, Paul, Canfield

LAW SCHOOL

Armstrong, Lamar S., Youngstown
 Batman, Robert G., Youngstown
 Bolinger, Ray, Greenville, Pa.
 Bourquin, Jessie, Youngstown
 Cain, Hayden, Youngstown
 Conway, Daniel, Youngstown
 Coy, Louise, Youngstown
 David, Paul K., Youngstown
 Edeburn, Leroy, Hubbard
 Economus, Constantine, Youngstown
 Goldblatt, L. J., Youngstown
 Grant, Warren, Youngstown
 Griffith, Alvin, Youngstown
 Higgins, Robert, Youngstown
 Johnson, Andrew, Youngstown
 Knupp, Allen, Hubbard
 Kramer, Dr. G. B., Youngstown
 Kretzer, Irwin, Youngstown
 Kurz, Edward, Youngstown
 Leffingwell, Thomas, Warren

McCaffrey, P. E., Youngstown
 Myfors, Richard, Greenville, Pa.
 Mulholland, Robert, Warren
 Mika, Felix, Youngstown
 Ovington, Ralph, Salem
 Reich, David, Youngstown
 Resch, Paul, Youngstown
 Scullen, Joseph, Youngstown
 Smeltzer, Dr. D. H., Youngstown
 Sullivan, Robert, Youngstown
 Taylor, M. B., Jr., Warren
 Wright, Walter, Spokane

SPECIALS

Baker, Edward, Youngstown
 Ballington, Marjorie, Youngstown
 Barr, Mrs. Glennetta, Youngstown
 Barr, William, Youngstown
 Beck, Imogene, Youngstown
 Boylan, Donald, Struthers
 Block, Mrs. Marie, Youngstown
 Burnett, Robert, Lowellville
 Brown, Alexander, Youngstown
 Chambers, James, Youngstown
 Darr, W. W., Girard
 Deford, Mrs. Grace, Youngstown
 DelBene, Elizabeth, Girard
 Elberly, Harry, Farrell, Pa.
 Fialla, Mrs. Mary, Girard
 Fine, Raymond, Youngstown
 Gettins, Clare, Youngstown
 Geisinger, Stanley, Youngstown
 Gibb, Elizabeth, Struthers
 Glass, William, Campbell
 Goldberger, Audrey, Youngstown
 Gottesman, Ernest, Youngstown
 Gottesman, Eugene, Youngstown

Grant, Clarence, Youngstown
 Gue, Myrtle, Youngstown
 Hasz, Charles, Youngstown
 Hunsinger, Mrs. R. E., Youngstown
 Klooz, Dorothy, Youngstown
 Lapin, John, Campbell
 Leach, Richard, Youngstown
 Lemon, Edith, Youngstown
 Levy, Ida, Youngstown
 Lewis, Elizabeth, Youngstown
 McCleary, Elmer, Youngstown
 McGuckin, Mary Theresa, Youngstown
 Martin, Anna, Sharon, Pa.
 Martin, Anita, Sharon, Pa.
 Martin, Roy, Sharon, Pa.
 Mastrantonio, Dominic, Youngstown
 Medicus, Marian, Youngstown
 Mittler, Martha, Youngstown
 Rankine, Thomas, Youngstown
 Reebel, Natalie, Youngstown
 Roberts, Charles, Youngstown
 Rogers, Howard, Girard
 Russ, Lucy, Youngstown
 Sause, Julian, Poland
 Shields, Edward, Farrell, Pa.
 Smith, Gertrude, Youngstown
 Smith, James, Youngstown
 Smith, R. D., Youngstown
 Stansbury, Francis, Youngstown
 Stoll, Walter, Youngstown
 Suter, Dorothy, Youngstown
 Swart, Raymond, Warren
 Titangos, George, Youngstown
 Waldman, Arthur, Youngstown
 Wills, Richard, Youngstown
 Watkins, Carolyn, Youngstown
 Zoss, Samuel, Youngstown

SUMMARY OF STUDENTS

For the year 1932-1933

Liberal Arts	457
Business Administration	72
Law	32
Special	59
TOTAL.....	620

DEGREES CONFERRED, 1932

Bachelor of Arts

Carl Abramovitz
 Blanche K. Buchanan
 James McMillin Chambers
 Sara Estelle Edwards
 Virgil Roller Freed
 Bernice Sara Garrison
 Ann Gulanish
 Irwin I. Kretzer
 Marlea Vivian Leshner
 Howard A. Merwin
 Marian Helene Morgan
 Fred Alfred Morrison

Anthony O'Neil
 Harold D. Polen
 Jane Rowland
 Ethel Louise Sanders
 Joseph Assad Sheban
 Minnie Keith Snyder
 Louis T. Wagner
 Frank Sidney Watkins
 Anna Marie White
 Irma Jean White
 William Charles Winning
 Nelson Gwynne Williams

Bachelor of Laws

Loren W. Dunlap
 Philip Preneau Fusco
 David Gold

Robert Higgins
 Henry William Kachel
 Carl H. Lembke, Jr.
 Russell Thomas Williams

Associate In Business Administration

John F. Allison
 John H. Herrlick
 J. Millard MacIntosh
 Mathilda Elvira Menning

E. Russell Myers
 Wilbur E. Myers
 Raymond W. Parker
 William F. Pinkerton, Jr.

SUMMER SCHOOL

Registration for the *Summer School* of Youngstown College begins June 19, 1933. The Session closes August 18. Summer courses are offered in Education, Psychology, Ethics, English, Social Science, Foreign Languages, Mathematics, and Chemistry. For Catalogue address The Registrar.

APPLICATION

I hereby wish to make preliminary application for registration in the class entering September 1933.

I am a member of the class graduating from.....

.....High School

....., 193....., with approximately the following work:

Subject	Units
English	
Mathematics	
Latin	
Modern Languages	
History and Government	
Science	
Miscellaneous	

Please send me an official entrance blank.

Signed:.....

Address.....

(Mail the Application to the Registrar)

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Youngstown
College
Bulletin

Catalog Number for the Year

1934-1935

Co-Educational



410 WICK AVENUE
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YOUNG MEN'S CHRISTIAN ASSOCIATION