

Gladye P. Weeks

The Municipal University of Akron

Akron, Ohio

March, 1918

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of Akron

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of Buchtel College

AKRON, OHIO
March, 1918

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UNIVERSITY CALENDAR

1918

- January 2, Wednesday, 7:30 A. M.—Class Work resumed.
January 18, Friday—Founder's Day.
January 18, Friday, 9:15 A. M.—Senior Ashton Prize Contest.
January 21 and 22, Monday and Tuesday—Classification for Second Semester.
January 28 to February 1—Final Examinations.
February 1, Friday, 5:00 P. M.—First Semester closes.
February 5, Tuesday, 7:30 A. M.—Second Semester begins.
February 22, Friday, Washington's Birthday—a holiday.
March 8, Friday, 9:15 A. M.—Sophomore Ashton Prize Contest.
March 23, Saturday, 12:00 noon—Easter Recess begins.
April 2, Tuesday, 7:30 A. M.—Class Work resumed.
May 16, Thursday—General Student Elections.
24, Friday—Tree Day.
30, Thursday—Memorial Day—a holiday.
7, Friday, 9:15 A. M.—Junior Ashton Prize Contest.
8, Saturday—Senior Vacation begins.
10-14—Final Examinations.
16, Sunday, 3:00 P. M.—Baccalaureate Service, Crouse Gymnasium.
17, Monday, 10:00 A. M.—Senior Class Day Exercises.
17, Monday, 8:30 P. M.—Junior Hop.
18, Tuesday, 3:00 P. M.—Out-of-door play by the Dramatic Study Club.
18, Tuesday, 8:00 P. M.—President's Reception.
19, Wednesday, 9:30 A. M.—Commencement Exercises.
19, Wednesday, 8:00 P. M.—Alumni Banquet.
September 16 and 17, Monday and Tuesday—Registration and classification.
September 18, Wednesday, 7:30 A. M.—Class Work begins.
September 27, Friday—Freshman Elections.

November 28, 29, 30, Thursday, Friday and Saturday—
Thanksgiving Recess.
December 21, Saturday, 12:00 noon—Christmas Holidays
begin.

1919

January 6, Monday, 7:30 A. M.—Class Work resumed.
January 17, Friday, 9:15 A. M.—Senior Ashton Prize
Contest.
January 18, Saturday—Founder's Day.
January 17 and 20, Friday and Monday—Classification for
Second Semester.
January 27 to 31—Final Examinations.
January 31, Friday, 5:00 P. M.—First Semester closes.
February 4, Tuesday, 7:30 A. M.—Second Semester be-
gins.
February 14, Friday—Senior Promenade.
February 22, Saturday, Washington's Birthday—a holiday.
March 7, Friday, 9:15 A. M.—Sophomore Ashton Prize
Contest.
April 12, Saturday, 12:00 noon—Easter Recess begins.
April 22, Tuesday, 7:30 A. M.—Class Work resumed.
May 15, Thursday—General Student Elections.
May 23, Friday—Tree Day.
May 30, Friday—Memorial Day—a holiday.
June 6, Friday, 9:15 A. M.—Junior Ashton Prize Con-
test.
June 7, Saturday—Senior Vacation begins.
June 9-13—Final Examinations.
June 15, Sunday, 3:00 P. M.—Baccalaureate Service,
Crouse Gymnasium.
June 16, Monday, 10:00 A. M.—Senior Class Day Exer-
cises.
June 16, Monday, 8:30 P. M.—Junior Hop.
June 17, Tuesday, 3:00 P. M.—Out-of-door play by the
Dramatic Study Club.
June 17, Tuesday, 8:00 P. M.—President's Reception.
June 18, Wednesday, 9:30 A. M.—Commencement Exer-
cises.
June 18, Wednesday, 8:00 P. M.—Alumni Banquet.

THE BOARD OF DIRECTORS

F. M. HARPHAM	Term expires 1920
ALBERT A. KOHLER	Term expires 1920
PARKE R. KOLBE	Term expires 1920
P. W. LITCHFIELD	Term expires 1922
WM. H. EAGER	Term expires 1922
CLYDE F. BEERY	Term expires 1922
FRANK M. COOKE	Term expires 1924
JAMES P. LOOMIS	Term expires 1924
J. ASA PALMER	Term expires 1924

OFFICERS FOR 1917

F. M. COOKE	<i>Chairman</i>
CHARLES R. OLIN	<i>Clerk</i>

COMMITTEES FOR 1917

<i>Committee on Finance:</i>	LOOMIS, PALMER, HARPHAM.
<i>Committee on Investments:</i>	COOKE, KOHLER, BEERY.
<i>Committee on Buildings and Grounds:</i>	KOLBE, LITCHFIELD, EAGER.

ADMINISTRATIVE OFFICERS OF THE
UNIVERSITY

PARKE R. KOLBE, Ph. D.....	<i>President of the University</i>
CHARLES R. OLIN, M. S.....	<i>Secretary of the University</i>
OSCAR E. OLIN, A. M.....	<i>Vice President of the Faculty</i>
M. ALICE HITCHCOCK, A. M.....	<i>Secretary of the Faculty</i>
ALBERT I. SPANTON, A. M.....
.....	<i>Dean of Buchtel College of Liberal Arts</i>
FRED E. AYER, C. E.....	<i>Dean of the College of Engineering</i>
SARAH E. STIMMEL, B. S.....
.....	<i>Director of the School of Home Economics</i>
ELIZABETH A. THOMPSON, A. M.....	<i>Dean of Women</i>
FREDERICK SEFTON, B. S.....	<i>Physical Director</i>
RENA B. FINDLEY.....	<i>Librarian</i>
GLADYS P. WEEKS	<i>Registrar</i>

GENERAL FACULTY AND OFFICERS

1917-1918

PARKE R. KOLBE, Ph. D.,

President of the University and Lecturer in Department of German Language and Literature.
President's House

CHARLES M. KNIGHT, A. M., Sc. D.,

Professor Emeritus of Chemistry
129 South Union Street

JOSEPH C. ROCKWELL, Ph. D.,

Professor of Latin and Greek
58 Casterton Avenue

OSCAR E. OLIN, A. M.,

Messenger Professor of Economics and Philosophy and Vice President of the Faculty
75 Nebraska Street

ALBERT I. SPANTON, A. M.,

Pierce Professor of English and Dean of Buchtel College
407 Vine Street

*SIDNEY J. LOCKNER, A. M.,

Ainsworth Professor of Mathematics and Physics

HEZZLETON E. SIMMONS, M. S.,

Buchtel Professor of Chemistry
448 Henry Court

FRED E. AYER, C. E.,

Professor of Civil Engineering and Dean of the College of Engineering
401 Brown Street

SARAH E. STIMMEL, B. S.,

Director of the School of Home Economics
306 Hastings Place

FREDERICK SEFTON, B. S.,

Director of the Department of Physical Education
803 West Market Street

*On leave of absence 1917-1918.

- CHARLES BULGER, A. M.,
Hilton Professor German Language and Literature
74 Mayfield Avenue
- AMON B. FLOWMAN, Ph. D.,
Professor of Biology
126 South Maple Street
- MAX B. ROBINSON, M. E.,
Professor of Mechanical Engineering
680 Elma Street
- M. ALICE HITCHCOCK, A. M.,
Professor of Romance Languages
362 East Buchtel Avenue
- ELIZABETH A. THOMPSON, A. M.,
Professor of History and Dean of Women
146 South College Street
- CHARLES R. OLIN, M. S.,
*Assistant-Professor of Mathematics and Secretary of
the University*
421 Spicer Street
- FRANK D. STURTEVANT, A. M.,
Assistant-Professor of English
112 South Maple Street
- ARDEN E. HARDGROVE, B. S.,
*Assistant-Professor of Chemistry and Director of the
Bureau of City Tests*
137 Highland Avenue
- ROBERT L. SIBLEY, A. M.,
Assistant-Professor in Chemistry
840 Ruth Avenue
- CARITA McEBRIGHT, A. B.,
Instructor in Oratory
396 East Market Street
- *J. S. MATHEWSON, M. E.,
Instructor in Engineering
283 East Buchtel Avenue
- ALBERT PHELPS TULLER, A. B.,
Instructor in Classics and French
197 Spicer Street
- MAX MORRIS, A. M.,
Instructor in Mathematics
438 Crestwood Avenue

*On leave of absence for government service.

- *BERNERD W. ADAMS, B. S. in Engineering,
Instructor in Electricity
423 Vine Street
- RUTH S. BAIR, B. S.,
Instructor in Home Economics
246 Wheeler Street
- ROSS C. DURST, C. E.,
Instructor in Civil Engineering
657 Elma Street
- CARL C. SPEIDEL, Ph. B.,
Instructor in Biology
197 Spicer Street
- HERMAS V. EGBERT, A. M.,
Instructor in Mathematics
423 East Market Street
- ALBERT A. SHAPIRO, Ph. D.,
Instructor in Romance Languages
214 South College Street
- WILLIAM H. CULLUM, A. M.,
Instructor in Physics
518 Spicer Street
- ETHEL J. WEILER, A. M.,
Instructor in Chemistry
133 West View Avenue, Barberton
- JOSEPH W. MARCH, E. E.,
Instructor in Electrical Engineering
- DELBERT F. BROWN, A. B.,
Graduate Assistant in Chemistry
201 Spicer Street
- LILLIAN MORSE CULLUM, A. B.,
Assistant in English
518 Spicer Street
- †AMY PARKER,
City Home Demonstration Agent
306 Hastings Place
- †EDWIN W. BROUSE, A. B., LL. B.,
Instructor in Business Law
36 Kuder Avenue
- †LAMONTE NOWLIN,
Instructor in Telegraphy
1539 Goodyear Avenue

*On leave of absence for military service.

†Affiliated with U. S. Department of Agriculture and the Ohio State University.

‡Part-time instructors in evening classes.

FELLOWS

M. H. CRYDER (Bucknell)	Chemistry
IRA WILLIAMS (Cooper)	Chemistry

STUDENT ASSISTANTS

O. C. DRIESBACH	Athletics
BRUCE McADOO	Biology
WALTER HOLMWOOD	Biology
HOWARD HOTTENSTEIN	Chemistry
CARL GILBERT	Chemistry
ESTHER E. OLIN	Economics
EUGENE HAAS	English
ANNA NALL	Library
CARL GILBERT	Library
MIRIAM HASSLER	Library
FLORENCE STREVEY	Library
ROBERT ROWSE	Physics
MARTHA MEANS	Romance Languages
FERDINAND CAMP	Bureau of City Tests
DONALD ROSS	Bureau of City Tests

William Knowlton (1918) Library.

COMMITTEES OF THE FACULTY

1917-1918

Executive

KOLBE, O. E. OLIN, SPANTON, AYER

*Classification**Buchtel College*—ROCKWELL, SPANTON, BULGER, SIBLEY,
MORRIS, EGBERT*College of Engineering*—ROCKWELL, AYER*Curtis School of Home Economics*—ROCKWELL, STIMMEL*Evening Classes*

SIMMONS, AND ALL EVENING CLASS INSTRUCTORS

Public Speaking

SHAPIRO, MCEBRIGHT, TULLER

Social

THOMPSON, TULLER, STIMMEL, ADAMS

Holiday Observance

HITCHCOCK, STURTEVANT AND CLASS ADVISERS

Athletics

BULGER, SEFTON, C. R. OLIN

Assembly Observance

O. E. OLIN, AYER

Publications

ROBINSON, MORRIS

Student Council and Honor System

SIMMONS, SPEIDEL, BAIR

Library

SPANTON, FINDLEY, STURTEVANT, DURST

Evening Courses

SIMMONS, SIBLEY, PLOWMAN

Extension Lectures

ROCKWELL

Faculty Representatives for Student Activities

BUCHTELITE	PLOWMAN
ELECTIONS	SIMMONS
MEN'S CLUB ROOM	BULGER
WOMEN'S CLUB ROOM	THOMPSON
SENIOR CLASS	SPANTON
JUNIOR CLASS	HARDGROVE
SOPHOMORE CLASS	PLOWMAN
FRESHMAN CLASS	SIMMONS

GENERAL INFORMATION*FOUNDATION*

The Municipal University of Akron was created by an ordinance of the Akron City Council, passed on August 25, 1913. This ordinance accepted in behalf of the city the offer of the Trustees of Buchtel College to give to the city the entire plant and endowment of the college as the nucleus of a municipal university, the Council promising in behalf of the city to support properly the new institution thus created. After the transfer of property had been completed by President Kolbe and Secretary Olin for the Trustees of Buchtel College, Mayor Rockwell on December 15, 1913, together with City Solicitor Taylor, accepted the deeds of transfer in behalf of the city and appointed nine citizens of Akron as members of the Board of Directors of the Municipal University of Akron.

Buchtel College, the institution thus turned over to the City of Akron, was founded in 1870 by the Ohio Universalist Convention and took its name from its most generous benefactor, Hon. John R. Buchtel, who consecrated his life and his wealth to its support. It was chartered by the Ohio Legislature in the same year as a College of Liberal Arts and Letters and first opened its doors for the admission of students in September, 1872.

By the terms of transfer to the City of Akron provision was made that Buchtel College retain its name and identity as Buchtel College of Liberal Arts of the Municipal University.

The Municipal University of Akron, being supported in large part by public taxation, is entirely non-sectarian. The City of Akron has, however, agreed to carry out all provisions made by donors of funds to Buchtel College. Such funds were given in most cases to establish professorships and scholarships in the College of Liberal Arts.

AIM OF THE UNIVERSITY

As a representative of the new type of municipal institution, the University seeks to develop its units or departments into such schools as may train the high school graduate in various practical and technical callings. Generally speak-

ing, the College of Liberal Arts will be used as the basis for all the units or schools of the University. The College of Liberal Arts will also continue to give the regular four-year courses common to institutions of its kind.

DEPARTMENTS OF THE UNIVERSITY

Buchtel College of Liberal Arts.

The College of Engineering.

The Curtis School of Home Economics.

BUCHTEL COLLEGE OF LIBERAL ARTS

(See page 35)

The College of Liberal Arts will endeavor to carry out the wishes of the Founder of Buchtel College, namely, "to secure the highest grade of Classical, Scientific and Literary Culture." Four-year courses are offered leading to the degrees of Bachelor of Arts, Bachelor of Science and (in combination with the City Normal School) Bachelor of Science in Education.

THE COLLEGE OF ENGINEERING

(See page 70)

This College was opened in September, 1914, and during its first year received only the entering or first year class. Courses in various branches of engineering and in manufacturing production are being developed.

THE CURTIS SCHOOL OF HOME ECONOMICS

(See page 91)

Like the College of Engineering, the School of Home Economics was opened to students in September, 1914. A four-year course is offered leading to the degree of Bachelor of Science in Home Economics.

EVENING COURSES

(See page 99)

The University offers evening work in a number of departments. College credit is given for this work, except in a few courses. The subjects are mostly those of the first two years of college work.

COMBINATION COURSES

(See page 112)

To those who wish to enter the learned professions such as law or medicine, the College of Liberal Arts offers opportunities of combination with the various professional schools of the country. By means of such combination courses a student may receive both the Arts and the professional degree, at the same time shortening by one year the period otherwise necessary.

A course for the preparation of teachers has also been arranged in combination with the City (Perkins) Normal School. (See page 119.)

COMMUNITY CO-OPERATION

(See page 121)

It is the desire of the Directors of the University to bring its various schools into close touch with municipal activities and to assist the work of various city interests in every possible manner by expert advice and service. Advanced students will be employed wherever possible in activities of this sort, receiving credit for work thus performed and gaining the additional advantage of a practical training in various phases of municipal affairs.

EQUIPMENT

At the time of the foundation of Buchtel College in 1870 a plot of six acres of ground was purchased at the outskirts of the village of Akron on a hill overlooking the valley. The growth of the city has included this site so that now the University campus lies at the head of College Street, only a short distance from the business center of the city.

In 1899 the old main building was destroyed by fire and in 1901 Buchtel Hall was completed as the first of a modern group of college buildings. From earlier times there already existed on the campus the Observatory, Crouse Gymnasium and the President's residence. Since the completion of Buchtel Hall there have been constructed the building first known as Buchtel Academy, and now used as an engineering recitation building; the central heating plant; Curtis Cottage, used as the home of the School of Home Economics; the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000; the Carl F. Kolbe Hall, the gift of Mr. F. A. Seiberling and Mr. F. H. Mason; and the engineering laboratory.

BIERCE LIBRARY

The College Library had its origin in a collection of works donated in 1874 by the late General L. V. Bierce. During the early days of Buchtel College the Library was augmented by books purchased from the proceeds of a bequest received from General Bierce's estate. In recognition of this early gift the Library has been called the Bierce Library. It embraces about 13,000 volumes, exclusive of public documents, and occupies the Carl F. Kolbe Hall.

FUNDS, PRIZES AND SCHOLARSHIPS

The Katherine Claypole Loan Fund

This fund has been established by a number of women's organizations of the city and dedicated as a memorial to Mrs. Katherine Claypole, wife of Dr. E. W. Claypole, former Professor of Natural Science at Buchtel. Mrs. Claypole was the founder of organized women's work in Akron and always manifested a deep interest in the young people of the College.

The principal of the fund is loaned to students "who in mid-term, as often happens, find themselves without sufficient means to complete the year's work." Applications should be addressed to Mrs. E. F. Voris, Treasurer, 77 Fir Street.

The Ashton Prizes

A fund consisting of \$3,000 has been established by the late Oliver C. Ashton, endowing the O. C. Ashton Prizes for excellence in reading and recitation.

The annual income of this fund will be paid, one-third to competitors from the senior class, one-third to competitors from the junior class, and one-third to competitors from the sophomore class, in a first and second prize to each class, in the proportion of two to one.

These are public exercises, and will take place at stated times during the year.

The Senior Alumni Prize

A fund has been established by the Alumni Association for the purpose of awarding an annual cash prize of \$50.00 to that senior student in Buchtel College of Liberal Arts who has completed the regular four-year course with the highest average grade. Only students who have spent their entire course at Buchtel College are eligible.

The Tomlinson Prizes

Thru the kindness of Rev. Irving C. Tomlinson, Class of '80, of Boston, Mass., two prizes of \$30.00 and \$20.00 respectively will be offered each year to those two students of the University who present the best papers on a subject related to the work of the Municipal University. The subject is to be treated with especial reference to broadening the field and increasing the usefulness of the University, to its true character as a municipal university, and to its value, and need by the city.

The Loomis Cup

Mr. James P. Loomis, of Akron, has donated a silver cup to be held annually by that High School in the City of Akron whose graduates during the preceding year have made the best scholastic record in the Freshman class at the Municipal University. The cup becomes the permanent possession of that school which first wins its possession for three years.

Buchtel College Scholarships

(See page 37)

A number of scholarships have been endowed by friends of the College to aid worthy and deserving students. The donor of a scholarship may, at all times, designate one student who shall be entitled to the remission of a part of the tuition charges in the College of Liberal Arts. Scholarship benefits will be limited to \$50.00 per year to any one student, and in the distribution of these scholarships by the University, preference will be given to the immediate descendants of the donor, if the donor is deceased.

Students thus receiving scholarships may be called upon to render services to the University for any part, or all, of such aid. They will be expected to maintain their standing in scholarship, and to conduct themselves in accordance with the rules of the institution. A scholarship is granted with the expectation that the student will complete his course of study at the University of Akron, and without a reason that shall be satisfactory to the Directors, honorable dismissal will not be granted until full tuition and all other college dues have been paid.

Fellowships in Rubber Chemistry

Two fellowships have been established in the Department of Chemistry, one by The Goodyear Tire & Rubber Company and one by The Firestone Tire & Rubber Company, for the study of the chemistry of india rubber. These fellowships are open to graduates of standard American colleges and are of the value of \$300 per year each, with remission of all University fees.

FREE TUITION

(Extract from The By-laws of the University Directors.)

Tuition in Buchtel College of Liberal Arts shall be free to all students whose parents are residents of Akron.

Students whose parents are not residents of Akron must prove one year's *consecutive residence* in Akron before they can be considered as candidates for remission of tuition charges.

Tuition will be charged in the case of all students under twenty-one years of age (whose parents do not reside in Akron) who move into the city with the express purpose of attending college, even tho such students be self-supporting.

Non-residents owning property taxed in Akron: Any person living outside of Akron but owning property within the city of Akron which is taxed, may receive credit on tuition of his child or children during any semester to the extent of taxes actually paid by him for that half-year towards the University levy, upon presenting a certificate from the County Auditor or Treasurer, stating the amount so paid.

STUDENT ORGANIZATIONS

The following student organizations have been formed in the University:

The Athletic Association; the Women's League; the Tel-Buch Association (Junior Class); the Military Battalion; the Buchtelite Association; the Dramatic Study Club; the Chemistry Club; the Modern Authors' Club; the Engineers' Club; the Camera Club; the class organizations.

Elections for the great majority of these are held on the same day and are controlled by a joint Board from the Faculty and the student body.

THE BUREAU OF STUDENT EMPLOYMENT

This Bureau is established for the purpose of aiding self-supporting students in finding part-time work during the school year. Its organization is directed by the University and its services are free to all students.

PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary fraternity, founded for the purpose of encouraging high scholarship among the Buchtel College students. Three students are chosen for membership from each senior class.

First:—That member of the senior class having the highest grades for three and one-half years.

Second:—The two members (one a man, the other a woman) having the next highest grades for three and one-half years.

These three students are elected for membership at the beginning of the second semester of their senior year, and are given at once the privilege of wearing the fraternity's badge and colors during the remainder of their senior year. The regular initiation takes place during Commencement week of the same year.

The badge of the fraternity is of gold in the shape of an ancient coin, bearing on the obverse side a serpent, a helmet and the Greek letters Phi Sigma Alpha, and upon the reverse side ten stars, the owner's name, the year of the class and "Buchtel College."

The colors of the fraternity are green and silver.

ATHLETICS

All participation in intercollegiate athletics is under the direct supervision of the Faculty and the Department of Physical Training. All teams representing the University are governed by the rules of the Ohio Conference.

ADMISSION

Methods of Admission

Students are admitted by examination, high school certificate, or honorable dismissal from other colleges or universities, or, if over 21 years of age, as special students not in candidacy for a degree.

Entrance Requirements

The requirement for unconditional entrance to any department of the University is 15 units. A unit is a full year's work in a subject, with four 1-hour or five 45-minute recitation periods a week.

Students with 14 units are admitted on condition that the deficiency be made up the first year.

Examinations are required in subjects presented for admission with grades below 70 per cent.

No student from an Akron high school who is not a graduate will be admitted with less than 16 units except upon recommendation of the Superintendent of Schools.

Admission by High School Certificate

Each candidate for admission to the freshman class is required to submit a certificate giving details of his high school work. This certificate should be addressed to Dean A. I. Spanton and sent as early as possible during the summer preceding entrance to the University.

Students presenting high school credits in a modern language or in mechanical drawing above and beyond the entrance requirements for college will be allowed college credit at the rate of fifty per cent in term hours for high school work, provided it results in a full credit in term hours and the student shows the ability to carry advanced work.

Admission from Other Colleges

Students from other colleges of recognized standing may be admitted to advanced standing on presentation of a certificate of work done and a statement of honorable dismissal.

Special Students

Students over 21 years of age, even tho they have not fulfilled the entrance requirement, may be admitted as special students, not in candidacy for a degree, to such studies as they are prepared to enter.

Subjects Required for Admission

For the subjects, required or elective, for admission to the several schools of the University, see the Entrance Requirements of these schools, as follows:

Buchtel College of Liberal Arts.....	page 38.
The Engineering College	page 72.
Curtis School of Home Economics..	page 91.
Evening Classes	page 99.

Subjects Accepted for Admission

The subjects from which choice may be made, and the number of units which will be accepted in each subject, are as follows:

Foreign Language (not more than 6 units in all)	English3 or 4 units
Greek1 or 2 units	Mathematics
Latin1 to 4 units	Algebra1½ or 2 units
French1 to 4 units	Geometry1 or 1½ units
German1 to 4 units	History
Spanish1 or 2 units	Advanced U. S.... ½ or 1 unit
Science (not more than 4 units in all)	General1 or 2 units
Physics1 unit	English ½ or 1 unit
Chemistry1 unit	Civics½ unit
Zoology½ or 1 unit	Political Economy½ unit
Botany½ or 1 unit	Vocational subjects (not more than 4 units in all)
Physiology½ unit	Manual Arts1 to 3 units
Phys. Geog.½ or 1 unit	Domestic Science1 to 3 units
	Commercial subj'ts 1 to 3 units
	Agriculture1 unit

Entrance at Mid-year

Students graduating from high schools at mid-year with two or more years of German or four years of Latin may enter at once any department of the University except the Engineering College. They may elect from the following subjects:

Latin 26 (4 h.)
German 104 (3 h.)
German 132 (4 h.)
Federal Govt. 262 (2 h.)
English 66 (3 h.)
Rhetoric 51 (3 h.)
Mathematics 301 (4 h.)

At the beginning of the following fall the student will be assigned to the regular freshman work of one of the courses and can pursue his studies without irregularity.

DESCRIPTION OF ENTRANCE UNITS

Following is a detailed statement of the requirements in each of the various subjects that may be offered for admission to college:

ENGLISH, 3 or 4 Units

The requirements include the College Entrance Requirements in English, practically uniform thruout the United States.

Three or four years, with five recitations a week, should be given to preparation, the work in Rhetoric and Composition being done simultaneously with the reading and study of the required English and American classics.

The applicant should bring a written statement from the principal or superintendent of the school attended, stating definitely the books read, and the amount of time given (1) to Rhetoric and Composition and (2) to the reading and study of the required classics.

The leading requirement, however, is the ability of the student to express his ideas in his mother tongue, clearly, forcefully, and accurately. Lacking this, his preparation to enter college is very inadequate, no matter how many books he may have read, or how much time he may have given to English in the grammar school and the high school.

*MATHEMATICS**Algebra, 1 1/2 or 2 Units*

The work in Algebra should include the following subjects: fundamental operations, factoring, fractions, linear equations in one and several unknowns, involution, evolution, surds, exponents, imaginary numbers, quadratic equations, simultaneous quadratics, binomial theorem for positive integral exponents, ratio, proportion, variation, progressions and logarithms.

Geometry, 1 or 1 1/2 Units

Plane or Plane and Solid Geometry. The set propositions required are those found in the older text books. Among the topics required may be mentioned: plane rectilinear figures; the circle and the measure of angles; similar polygons; areas, regular polygons; the relation of lines and planes in space; the properties and measure of prisms, pyramids, cylinders, and cones; the sphere, and the spherical triangle.

It is suggested that the last half-year's work, in both Algebra and Geometry, be done late in the preparatory school course, that there may be close and ready articulation with the required freshman mathematics in college. It is especially desirable that the student come to his college work with habits of neatness and accuracy well formed.

FOREIGN LANGUAGES

Latin, 1, 2, 3 or 4 Units

First Year. (One Unit.) Collar and Daniell's First Latin Book, or Bennett's Latin Lessons, with twenty-five pages of Viri Romae or an equivalent.

Second Year. (One Unit.) Cæsar's De Bello Gallico, Books I-IV, or an equivalent, with thirty lessons in Prose Composition.

Third Year. (One Unit.) Cicero's Orations: Four against Catiline, Poet Archias, the Manilian Law, Verres and Roscius. For the last two an equivalent may be offered. Thirty lessons in Latin Prose Composition based upon Cicero.

Fourth Year. (One Unit.) Virgil's Eneid, Books I-VI. Grammar, including Prosody (New Allen and Greenough, Bennett, or Harkness).

Greek, 1 or 2 Units

First Year. Beginners' Lessons in Greek.

Second Year. Xenophon's Anabasis.

German, 1, 2, 3 or 4 Units

The following work should be offered for one, two, three or four years' credit, respectively:

One Year. Joynes-Meissner's Grammar (Part I.) Fair equivalents in standard beginners' books will be accepted as substitutes. One hundred and fifty pages of simple German, in which should be embraced some of the best known songs and ballads and at least one longer story, such as Immensee, Germelshausen, or Hoehel als die Kirche. The candidate should be able to pronounce German correctly, to understand and form simple sentences, and to write German script.

Two Years. In addition to the requirements for the first year, the candidate should by review have accurately familiarized himself with the principles of grammar, and should be able to translate with readiness easy connected English prose into German.

He should be able to write German from dictation, and should have read at least one of the easier classics besides two hundred pages of easy prose.

Three Years. In addition to the requirements for the first two years, the candidate should have read at least two more classic dramas, and at least one hundred pages of more difficult prose, such as *Die Harzreise* or selections from *Dichtung und Wahrheit*, and should be able to discuss these freely in the German language. He should show the results of an additional year's drill in translating more difficult English prose into German either by writing or orally, and should have had instruction in the literary history of Germany in the later Classic and Modern Period.

Four Years. The work of this year should be a continuation on the groundwork of the first three years, and should include at least eight hundred pages of reading, altho a less number may be presented if more difficult works have been attempted. In addition the candidate should have a knowledge of the history of German literature from the earliest periods, and should know something of Germany and modern German life.

It is advised that some subjects of general practical interest such as German schools, stores, meals and amusements be treated.

French, 1, 2, 3 or 4 Units

The following work should be offered for one, two, three or four years' credit, respectively :

One Year. A thoro knowledge of the leading principles of French grammar as set forth, for instance, in Fraser and Squair; an accurate acquaintance with the more common irregular verbs; the ability to translate easy English prose into French and to read easy French at sight; the ability to pronounce French, and the careful reading of two hundred pages of less difficult French.

Two Years. In addition to the above, the candidate should know accurately all irregular verbs in common use, and should be able to read a page of French with accurate pronunciation. He should have read at least four hundred pages of various authors, which should include one or two classic dramas. He should have had some practice in writing from dictation, and should be able to translate ordinary English prose into French.

Three Years. The work of the third year should comprise the reading of approximately five hundred pages of French of ordinary difficulty; memorizing of passages of matter read, either prose or poetry; writing from dictation; review of grammar.

Four Years. The work of the fourth year should include the reading of at least eight hundred pages of standard French, classical and modern; the writing of numerous short themes in French; a knowledge of the principal authors and works of French literature and of the important periods in French history; an ability to discuss in French the works read.

Spanish, 1 or 2 Units

The following work should be offered for one or two years' credit, respectively:

One Year. Drill in pronunciation, reading of not less than one hundred pages of easy Spanish, study of the elements of Spanish grammar, memorizing of poetry or prose, and dictation.

Two Years. In addition to the above, the pupil should have had at least two hundred pages of translation, exercises from English into Spanish, special drill on irregular verbs and constant work in grammar.

SCIENCES

Physics, 1 Unit

Recitations at least four times per week for a school year, together with a note-book, containing the description and results of at least fifty experiments, neatly recorded.

Chemistry, 1 Unit

Recitations three times a week for a school year, together with laboratory practice for two hours per week and a note-book containing an account of all experiments made by the student's own hands, with sketches of the apparatus used.

Zoology, 1/2 or 1 Unit

Botany, 1/2 or 1 Unit

Physiology, 1/2 Unit

Work in Botany, Human Physiology or Zoology should include laboratory studies amounting to at least one-fourth of the entire time devoted to the course. All laboratory exercises must be fully recorded by the student, and the note-book may be examined by the interested instructor before entrance credit is allowed. Not less than 1/2 unit will be counted in any one of the above subjects, and not more than two units will be allowed in the group. Any of the standard texts in these subjects will satisfy the requirements if taken along with the specified amount of laboratory work.

Physical Geography or Physiography, 1/2 or 1 Unit

Five times per week for one-half year. A good text-book, such as Davis' Physical Geography, should be supplemented by field excursions and laboratory, to cover about one-fourth of the time.

NOTE:—In all science subjects at least two periods of laboratory or experimental work should count as the equivalent of one recitation.

HISTORY, CIVICS AND POLITICAL ECONOMY

Advanced U. S. History, 1/2 or 1 Unit

General History, 1 or 2 Units

English History, 1/2 or 1 Unit

Civics, 1/2 Unit

Political Economy, 1/2 Unit

One-half, one, or two years' work in high school, with any standard high school text book.

VOCATIONAL SUBJECTS

Manual Arts, 1 to 3 Units

Domestic Science, 1 to 3 Units

Commercial Subjects, 1 to 3 Units

Agriculture, 1 Unit

The place of vocational subjects in the high school curriculum is at present so indefinite as not to warrant the statement of specific requirements in these subjects for admission to college. Graduates of Akron high schools in the manual training, home economics, or commercial course, are admitted to the freshman class without conditions if they offer 15 units of work with grades of 70% or above. Graduates of other first grade high schools in similar courses will be admitted on the same terms provided they fulfill the specific requirements for admission to that school of the University which they wish to enter.

REGISTRATION

The registration days* for the beginning of the school year 1918-1919 will be Sept. 16 and 17; for the second semester, January 17 and 20.

All students, both old and new, are required to register and classify for work on these days between the hours of 8:30 A. M. and 5:00 P. M.

Procedure for registration and classification

1. Fill out registration card.
2.
 - a. If a new student, present yourself to the Committee on Entrance; then see the Classification Committee of the school to be entered.
 - b. If not a new student, take registration card to the Classification Committee of the school in which you are enrolled.
3. Take Classification slip to the Secretary's office, where term bills should be paid.

*This refers to registration for all work except evening classes. For these see page 99.

GENERAL REGULATIONS

The Term-Hour—The unit of instruction is one hour per week for one semester. From two to three hours of laboratory work shall be considered as equivalent to one recitation hour with preparation therefor. This unit is known as a "term hour."

Required for degree—128 term hours, except in the College of Engineering.

Failure—Any student failing to receive unconditional credit for at least eight term hours at the end of any semester shall be dropt from the University; but freshmen may be allowed to re-enter after passing entrance examinations in all subjects.

Any student electing fewer than eight hours must receive unconditional credit in all his work or be dropt from the University.

Election of Subjects in other Schools of the University—No student in one school or college shall be allowed to elect subjects in other schools until all freshman and entrance requirements are satisfied.

Curtis School of Home Economics—Students in Buchtel College may elect a maximum of twenty hours' work in the Curtis School to be applied toward the requirements for graduation from Buchtel College.

College of Engineering—Students in the scientific course in Buchtel College may elect the following subjects in the College of Engineering to be applied toward the requirements for graduation from Buchtel College. The subjects must ordinarily be elected in groups of two:

Mechanical Drawing 811	4	hours
Descriptive Geometry 812	4	"
Strength of Materials 815	3	"
Applied Mechanics 816	3	"
Electricity 833, 834	6	"
Electricity Lab. 835, 836	4	"
Hydraulics 829	3	"

Total27 hours

Work thus elected must not interfere with required major and minor studies in the College of Liberal Arts, nor can it be substituted for them.

FEES

Resident Students—All students who are residents of the City of Akron according to the rules adopted by the Board of Directors (see "Free Tuition," page 20), or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay an incidental fee of \$10.00 per semester, covering registration, incidentals and student activity fee. If not paid before September 25 of the first semester, or February 12 of the second semester, the fee is \$12.50 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. (See pages 43, 74, 93.)

Non-resident Students—The tuition for non-resident students is \$40.00 per semester in the College of Liberal Arts and the School of Home Economics, in addition to the incidental fee of \$10.00 per semester. The tuition for co-operative students in engineering is \$30.00 per semester plus the regular incidental fee of \$10.00 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. If not paid before September 25 of the first semester or February 12 of the second semester the tuition fee is \$35.00 in the Engineering College and \$45.00 in other departments and the incidental fee is \$12.50.

SUMMARY OF FEES

The following table gives a summary of all fees for resident and non-resident students (except laboratory fees), also for students electing eight hours or less:

Tuition Fee—

For residents of Akron:	Free.	
For non-residents per semester:		
	If paid before	If paid between
	Sept. 25	Sept. 25 and
	Feb. 12	Nov. 1
		or Feb. 12
		and April 1
More than 8 hours per week.....	\$40.00	\$45.00
From 5 to 8 hours per week.....	25.00	27.50
3 or 4 hours per week.....	15.00	17.50
1 or 2 hours per week.....	8.00	

Incidental Fee—

Payable by resident and non-resident students.

	If paid before Sept. 25 Feb. 12	If paid be- tween Sept. 25 and Nov. 1 or Feb. 12 and April 1
More than 8 hours per week.....	\$10.00	\$12.50
From 5 to 8 hours per week.....	8.00	10.00
3 or 4 hours per week.....	5.00	6.50
1 or 2 hours per week.....	3.00	

All persons registering for work after the specified days of registration will be charged a fee of \$1.00 for the first day and twenty-five cents for each additional day of delay in registration.

Students whose entire fees are not paid by Nov. 1 for the first semester or by April 1 for the second semester will be suspended from further participation in class work until such fees are paid.

EXPENSES FOR LIVING

Non-resident students at the University of Akron can obtain a good room for \$2.00 to \$3.00 per week. The common price for a single room, occupied by one person, is \$2.50 per week; for a double room, occupied by two persons, \$2.00 per person. The University maintains no dormitories, but lists of rooms for men may be found at the general office. All women attending the University are under direct charge of the Dean of Women. No non-resident woman is allowed to select a rooming place not on the approved list of the Dean of Women. Non-resident women intending to enter the University should write beforehand to Mrs E. A. Thompson, Dean of Women, who will gladly assist them in obtaining suitable living quarters.

Board may be secured in private families (often in connection with room), in boarding houses near by or at the Y. M. C. A. and Y. W. C. A. A number of restaurants also offer rates by the week.

The School of Home Economics serves a cafeteria luncheon in Curtis Cottage every noon during the school year.

SELF HELP

A large proportion of the men of the institution are self-supporting. Akron offers a great variety of work for men students, such as clerking, soliciting, waiting on table, playing in orchestras, etc. The University maintains a Bureau of Student Employment which helps new students in getting work for odd hours, evenings and on Saturdays. The demand for such student aid on the part of Akron citizens is usually larger than the University can supply.

No student, however, should enter without sufficient money for payment of term bills and for living expenses for several months, since too much outside work often seriously hampers the beginning of a college course.

The opportunity for women in the matter of self help is more limited. It consists largely of work during certain hours of the day in private families in return for board and room, clerking and, to a limited extent, work in offices or libraries.

The University offers a number of student assistantships in various departments to upper classmen. Such positions pay from \$50 to \$150 per year. All inquiries regarding self help for men should be addressed to the Bureau of Student Aid; for women, to the Dean of Women.

BUCHTEL COLLEGE OF LIBERAL ARTS

Buchtel College was founded as a College of Liberal Arts in 1870 by the Ohio Universalist Convention in co-operation with the Hon. John R. Buchtel. It became a part of the Municipal University of Akron on December 15, 1913. The following is a list of the original incorporators of Buchtel College:

- *J. S. CANTWELL, D. D.
- *COL. GEO T. PERKINS.
- *HENRY BLANDY.
- *REV. GEO. MESSENGER.
- *REV. B. F. EATON.
- *JUDGE NEWELL D. TIBBALS.
- *REV. J. W. HENLEY, D. D.
- *JUDGE E. P. GREEN.
- *O. F. HAYMAKER.
- *JOHN R. BUCHTEL.
- *REV. H. F. MILLER.
- REV. E. L. REXFORD, D. D.
- REV. H. L. CANFIELD, D. D.
- *WILLARD SPAULDING.
- *GEORGE STEESE.

PRESIDENTS OF BUCHTEL COLLEGE

S. H. MCCOLESTER, D. D., Litt. D.....	1872-1878
E. L. REXFORD, D. D.	1878-1880
*ORELLO CONE, D. D.....	1880-1896
C. M. KNIGHT, Sc. D. (ad interim).....	1896-1897
I. A. PRIEST, D. D.....	1897-1901
*A. B. CHURCH, D. D., LL. D.	1901-1912
P. R. KOLBE, Ph. D.....	1913-

*Deceased.

ENDOWMENTS

MESSENGER PROFESSORSHIP

The Messenger Professorship of Mental and Moral Philosophy was endowed by Mrs. Lydia A. E. Messenger, late of Akron, in memory of her deceased husband, Rev. George Messenger.

HILTON PROFESSORSHIP

The Hilton Professorship of Modern Languages was endowed by John H. Hilton, late of Akron.

PIERCE PROFESSORSHIP

The Pierce Professorship of English Literature was endowed by Mrs. Chloe Pierce, late of Sharpsville, Pa.

BUCHTEL PROFESSORSHIP

The Buchtel Professorship of Physics and Chemistry was named in honor of Mrs. Elizabeth Buchtel, late of Akron.

AINSWORTH PROFESSORSHIP

The Ainsworth Professorship of Mathematics and Astronomy was endowed by Henry Ainsworth, late of Lodi.

RYDER PROFESSORSHIP

The Ryder Professorship of Rhetoric and Oratory was established by the Board of Trustees in memory of Dr. William H. Ryder, late of Chicago.

MESSENGER FUND

The Messenger Fund was created by Mrs. Lydia A. E. Messenger, late of Akron. The fund consists of \$30,000.

ISAAC AND LOVINA KELLY FUND

The Isaac and Lovina Kelly Fund was created by Isaac Kelly, late of Mill Village, Pa. This fund consists of \$35,788.

WILLIAM PITT CURTIS FUND

This fund was established by William Pitt Curtis, late of Wadsworth, O. It now amounts to \$25,000.

CROSLEY LIBRARY FUND

This fund was established by the Rev. Lotta D. Crosley, late of Kent, O. It amounts to \$3,000.

**PERPETUAL SCHOLARSHIPS IN BUCHTEL
COLLEGE**

The following-named persons have established perpetual scholarships in Buchtel College:

*MISS E. V. STEADMAN	Marietta
*JAMES PIERCE	Sharpsville, Pa.
*ELIJAH DRURY	Girard, Pa.
*MRS. MARY C. MARTIN	Lebanon
*JAMES F. DAVIDSON	Brimfield
*†MISS BETSEY THOMAS	Irwin
*JOHN PERDUE	Lafayette, Ind.
*ELI M. KENNEDY	Higginsville, Mo.
*JOHN K. SMITH	Ravenna
*N. S. OLIN	Ravenna
*JOHN B. SMITH	Urbana
*MRS. CANDIA PALMER	Painesville
*MRS. GEO W. STEELE	Painesville
*GEORGE W. STEELE	Painesville
*MRS. BETSEY DODGE	McConnellsville
*JOHN ESPY	Kenton
*JOSEPH HIDY, SR	Jeffersonville
*MRS. HENRY BOSZAR	Brimfield
*HENRY BOSZAR (3)	Brimfield
*H. D. LOUDENBACK	Westville
*THOMAS KIRBY	Muncie, Ind.
*ISAAC AND LOVINA KELLY	Mill Village, Pa.
*S. T. AND S. A. MOON	Cuba
*GEORGE THOMAS	Greenwich
*MRS. E. W. TERRILL	Jeffersonville
*MRS. JOHN H. HILTON	Akron
*SAMUEL BIRDELL	Peru
*SAMUEL GRANDIN	Tidioute, Pa.
*N. B. AND A. E. JOHNSON	Mingo
*HENRY AINSWORTH (10)	Lodi
MR. AND MRS. JOHN MILLER	Edgerton
*JOHN P. CHAPIN	New Philadelphia
*CHRISTIAN SWANK	Creston
*MRS. S. O. ACOMB	Tidioute, Pa.
*MRS. JANE BETZ (2)	Hamilton
*†MISS HANNAH ALLYN	Akron
*MRS. ROSA G. WAKEFIELD	Green

*MARTHA A. BORTLE Hamilton
 ††DELIA LORING MORRIS Belpre

These scholarships are intended to aid worthy and deserving students, and are awarded by a Scholarship Committee under authority from the Board of Directors.

*Deceased.

†In honor of her father, Eliphas Burnham.

††In memory of her father and mother, Mr. and Mrs. Israel Allyn, and her sister, Lucy Allyn.

††In memory of her father, Oliver Rice Loring.

ENTRANCE REQUIREMENTS

(For general entrance requirements to the University, see page 22.)

A. B. COURSE

The candidate must present:

English (page 25)	3	units
Mathematics (page 25)	2½	units
*Foreign Languages (page 26)	4	units
General History (page 29)	1	unit
Elective (from the subjects on page 24)	4½	units

B. S. COURSE

The candidate must present:

English (page 25)	3	units
Mathematics (page 25)	3	units
*Foreign Languages (page 26)	4	units
Sciences (page 28) [one unit must be Chemistry or Physics]	2	units
Elective (from the subjects on page 24)	3	units

**Of the foreign language offered, at least two units must be in one language. Not less than a full unit in the beginning of any language will be accepted.*

For a major in Latin, or in Greek and Latin (see page 40) four years of Latin are required for entrance.

COURSES OF STUDY AND DEGREES

Two courses of study, each requiring 128 term hours for graduation, and leading respectively to the degrees A. B. and B. S., are offered in Buchtel College.* (For terms of admission to these courses see page 38.)

The studies of the freshman year are definitely assigned and required in each course.

First-year special students are not allowed to elect work above the freshman year.

FRESHMAN STUDIES (required)

I. The A. B. Course

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Rhetoric 51.....	3 ✓	Rhetoric 52.....	3 ✓
†Chemistry 353, or	} 4 ✓	†Chemistry 354, or	} 4 ✓
Chemistry 351, or		Chemistry 352, or	
Biology 401.....		Biology 402.....	
Hygiene	1 ✓	Current Events.....	1 ✓

The above-mentioned subjects are required of all students in the A. B. course. Additional freshman studies in A. B. course leading toward Majors I and II (see page 40) are:

Greek 1	4	Greek 2	4
✓ Latin 25	4	Latin 26	4

†Students who have not had a year of Chemistry in high school are required to take Chemistry 353 and 354. Students who have had a year of Chemistry in high school will take Chemistry 351 and 352, or Biology 401 and 402.

Additional freshman studies in A. B. Course leading toward Majors III-VII (see page 41) are:

Foreign Language	4 ✓	Foreign Language	4 ✓
Greek 1, Latin 25, or.....	} 4 ✓	Greek 2, Latin 26, or.....	} 4 ✓
Mathematics 301 or 303.....		Mathematics 302 or 301.....	

*For combination courses and training course for teachers see pages 118 and 119.

II. *The Scientific Course*

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Rhetoric 51	3	Rhetoric 52	3
*Chemistry 353 or	4	*Chemistry 354 or	4
Chemistry 351, or		Chemistry 352, or	
Biology 401	1	Biology 402	1
Hygiene		Current Events	
Mathematics 301 or 303	4	Mathematics 302 or 301	4
German, French or Spanish	4	German, French or Spanish	4

**Students who have not had a year of Chemistry in high school are required to take Chemistry 353 and 354. Students who have had a year of Chemistry in high school will take Chemistry 351 and 352, or Biology 401 and 402. But students planning to major in Biology will take Biology 401 and 402 even if they have had no high school Chemistry, and will make up their freshman Chemistry in the sophomore year.*

MAJORS AND MINORS

At the end of the freshman year the student is asked to indicate to the Committee on Classification whatever line of work he may wish to pursue. This subject is then known as the "major." Each major brings with it a number of required "minor" subjects. All major and minor work must be beyond the student's freshman requirements. Twenty-four term hours above the freshman year is the minimum requirement for a major, a term hour being a study carried one hour per week through one semester. All work beyond the freshman year and outside of the major and minor requirements is elective, 16 hours per semester being counted as regular work.

I. MAJORS LEADING TO THE A. B. DEGREE

For list of Minors, see page 41.

(Unless otherwise specified, the work required for the major is twenty-four hours above the freshman year.)

- I. Greek and Latin (with minors 1-6 inclusive). At least twelve hours must be in the Greek language above the freshman year.
- II. Latin (with minors 1 to 6 inclusive).

- III. German and French (with minors 1 to 5 inclusive, and 9).
- IV. Romance Languages (with minors 1 to 5 inclusive, and 8).
- V. Philosophy and Economics (with minors 1 to 4 inclusive, 7 and 8). Twelve hours each.
- VI. History (with minors 1 to 3 inclusive, 5, 7 and 8).
- VII. English Literature (with minors 3, 5, 7, 8, 9, and English History).

II. MAJORS LEADING TO THE B. S. DEGREE

(Unless otherwise specified, the work required for the major is twenty-four hours above the freshman year.)

- VIII. Chemistry (with minors 1, 2, 4, 5, 10, 12, 13).
- IX. Mathematics and Physics (with minors 1, 2, 4, 5, 10, 11, 13). Includes Calculus, 10 hours; Surveying, 2 hours; Physics, 10 hours; and Mechanics, 2 hours.
- X. Biology (with minors 1, 2, 4, 5 [Psychology], 11, 12, 13).

III. MINORS

	Term hrs.
1. Rhetoric 53	2
2. Literature 65, 66, 75 or 76	3
3. *Science (in a different department from that taken in freshman year)	8
4. History	6
5. Philosophy, Logic, Economics, Political Science	6
6. Modern Language	6 or 8
7. French or Spanish	6 or 8
8. German	6 or 8
9. Classical Masterpieces 83 and 84	6
10. Biology	8
11. Chemistry	6 or 8
12. Physics 341 and 342	10
13. Scientific German or Scientific French	4

*Only courses which include laboratory work.

Thesis

A thesis showing original research by the student may be presented for graduation. It shall be taken in the subject chosen as the student's major, and shall count for two term hours if carried satisfactorily beyond the regular class-room work. The thesis must be handed to the instructor in charge on or before the beginning of the senior vacation.

Master's Degree

The degree of A. M. may be conferred upon those who have acquired the degree of A. B., and the degree of M. S. upon those who have acquired the degree of B. S. These degrees may be granted in not less than two years after graduation, unless the applicant, in residence, can devote his entire time to the work, when the degrees may be granted in one year. At least one year of residence is required of all candidates for a Master's degree.

The candidate must accomplish the equivalent of a full college year's work of thirty-two term hours, choosing his subjects as majors and minors, twenty-four of which must be in the major field.

In the minor the work may be partly unduplicated undergraduate, but the applicant will be expected to carry it beyond the lines of usual college work. In the major, the work must be confined to graduate subjects and methods, and in this a satisfactory thesis must be presented which will give evidence of original work in the investigation of some new field rather than of a mere re-statement of what is already known. The subjects and methods must have received the sanction of the instructors in the departments chosen.

An examination will be required in both subjects.

A candidate for either of these degrees at any given commencement must present his thesis and report for examination not later than June 1st.

FEEES

For general statement see pages 32, 33. The following laboratory fees are charged for courses in the College of Liberal Arts. By action of the Directors these laboratory fees are collectable strictly in advance and are a necessary prerequisite to enrollment in classes.

Chemistry 351, 352, 353, 354, per semester	\$ 3.00
“ All other courses	4.00
“ Deposit for breakage in all courses, per semester	5.00

The unused portion of this breakage deposit will be returned at the end of each semester.

Physics 341 and 342, each	\$ 2.50
Biology courses 401-412 inclusive, each	2.50
Surveying	2.00
Graduation fee—payable one week before graduation	5.00
Master's degree—Payable one week before graduation	10.00

Students who have not met all term bills by November 1 for the first semester, or April 1 for the second semester, may be suspended from classes until payment is made.

DEPARTMENTS OF INSTRUCTION

The general system of numbering and arrangement is according to the following groups:

Subject	Course Numbers
Ancient Languages	1- 50
English	51-100
German	101-150
Romance Languages	151-200
Mental and Moral Philosophy	201-250
Economics, Political Science, History	251-300
Mathematics	301-350
Chemistry	351-400
Biology	401-450
Physical Training	

Courses starred in the following pages are open only to Juniors and Seniors.

GREEK

PROFESSOR ROCKWELL

Major: Of the twenty-four hours necessary for a major in Greek and Latin, twelve hours at least must be of the Greek language above the freshman year.

1. *White's First Greek Book.*—(First Semester.) M., W., F., S., 8:25.
2. *Xenophon (Anabasis, 1 book).*—(Second Semester.) M., W., F., S., 8:25.

Advanced courses in Greek will be arranged for those wishing to continue the subject. The great masterpieces of prose and poetry will be studied in their proper historical and literary setting.

- *83. *Greek Masterpieces thru English Translations.*—(First Semester.) M., T., Th., 9:20.

A careful study will be made of the various forms of Greek literature and the chief works in the field of lyric and epic poetry, the drama, history and philosophy.

- *84. *Latin Masterpieces thru English Translations.*—(Second Semester.) M., T., Th., 9:20.

The continuation of the preceding course.

CLASSICAL ARCHEOLOGY

PROFESSOR ROCKWELL

Courses 19 and 20 are open to all students above the freshman year. Courses 17 and 18 will count toward either major offered in this department.

- *17. *History of Greek Sculpture.*—(First Semester.)
M., W., Th., 9:20.
Not given 1918-1919.
- *18. (Second Semester.)
Continuation of Course 17. M., W., Th., 9:20.
~~Not given 1918-1919.~~
19. *Classical Mythology.*—(First Semester.)
Tu., Th., 8:25.
Not given 1918-1919.
20. *General Course in Classical Archeology.*—(Second Semester.)
Tu., Th., 8:25.
Not given 1918-1919.
21. *Hellenistic Period of Greek Sculpture.*—(First Semester.)
Continuation of course 19.

This course will consist largely of lectures and collateral reading, and may be taken independent of courses 17 and 18.
Tu., Th., 8:25.

22. (Second Semester.)
Continuation of course 21. Tu., Th., 8:25.

LATIN

PROFESSOR ROCKWELL

Four units in Latin are required of all students entering freshman Latin.

Major: Twenty-four hours elected above freshman year constitute a major in Latin.

Major: Twelve hours each of Greek and Latin above the freshman requirements constitute a major in Greek and Latin.

25. *Cicero (De Senectute); Plautus (Menaechmi).*—(First Semester.)
M., W., F., S., 7:30. Required of freshmen in Majors I and II.

During the freshman year a careful study is made of grammatical forms, syntax and idiomatic expressions, and written translations constitute a prominent feature of the work.

26. *Pliny (Selected Letters)*.—(Second Semester.)

M., W., F., S., 7:30. Required of freshmen in Majors I and II.

27. *Livy (Books XXI-XXII); Plautus Trinummus*.—(First Semester.)

Tu., Th., 11:10 and 3rd hour to be arranged. Courses 27 and 28 are open to students who have completed 25 and 26.

28. *Terence (Andria); Horace (Odes and Epodes)*.—(Second Semester.)

Tu., Th., 11:10 and 3rd hour to be arranged.

Advanced courses in Literature and Antiquities will be arranged for those desiring to continue the study of Latin.

ENGLISH

DEAN SPANTON.

ASSISTANT-PROFESSOR STURTEVANT.

RHETORIC

To meet the needs of all entering students, Freshman Rhetoric during the first semester will consist of a sub-freshman class and classes doing the work regularly prescribed for credit. Students assigned to the sub-freshman class must do the work without receiving for it regular college credit. They may, however, be promoted to one of the regular classes whenever their work seems to warrant such a change. Similarly, any student in a regular section of freshman rhetoric may be transferred to the sub-freshman class—with loss of credit—whenever his work ceases to be satisfactory to the instructor. Furthermore, to accommodate students entering at mid-year, Rhetoric 51 will be given the second semester.

S-51. *Sub-freshman Rhetoric*.—(First Semester.)

Required of all freshmen who show themselves unable to do the work of the regular sections of Rhetoric 51. Thoro drill in spelling, punctuation, correct grammar, and the principles of sentence structure. It is especially urged that students, who know their preparation for composition work to be weak, elect this course.

- ✓ 51. *Freshman Rhetoric.*—(*First and Second Semesters.*)
 First semester, three sections: Section a, M., W., F., 8:25; section b, M., Tu., Th., 9:20; section c, M., W., F., 10:15. Second semester, one section: M., Tu., Th., 9:20.

Required of all freshmen. A thoro review of the principles of style. Two themes each week. Monthly reading of short stories. Frequent conferences with instructors in regard to work in composition.

52. *Freshman Rhetoric.*—(*Second Semester.*)
 Section a, M., W., F., 8:25; section b, M., W., F., 10:15.

Required of all freshmen. Weekly themes. Conference work continued. Reading of selected novels and modern plays.

53. *Parliamentary Law.*—(*First Semester.*)
 M., F., 11:10.

Required of all sophomores. The class is organized as an Assembly with the instructor as chairman. Study and practice of rules of order; the writing of minutes. Study of manual of debate. Text-book: Cushing's Manual of Parliamentary Practice (Revised edition).

54. *News Writing.*—(*Second Semester.*)
 M., F., 11:10.

Recitation and practice work. Writing of leads, heads, types of news stories, and editorial articles. As far as time permits, the student will do actual reporting on a "beat" assigned to him.

- *55. *Advanced Composition.*—(*First Semester.*)
 (Two term hours.) Time to be arranged when class meets.

Prerequisite: Courses 51, 52; but students are urged not to elect the course earlier than the junior year. Close study of the expository and descriptive essay. Wide reading in illustrative work of the best modern writers. A large amount of composition is required.

Not offered 1918-1919.

- *56. *Advanced Composition.*—(*Second Semester.*)

A continuation of course 55. Study of the short-story with wide illustrative reading. Text-book: Pitkin's Short-Story Writing.

Not offered 1918-1919.

LANGUAGE AND LITERATURE

DEAN SPANTON.

ASSISTANT-PROFESSOR STURTEVANT.

Required work. In addition to the required work in Rhetoric, students in all courses must take, after the freshman year, at least three hours' work in the department of English Language and Literature. To fulfill this requirement, students will take Literature 65 or 66, one semester, or American Literature 75 or 76.

Majors. The minimum for a major in English Literature is twenty-four term hours. Students choosing a major in English Literature must elect a year of Composition in addition to the required freshman and sophomore Rhetoric.

Order of Work. Courses 65 and 66 are prerequisite to the more advanced courses. Hence students who desire to take all or most of the work offered in English must elect these courses in their sophomore year, and in no case should they be postponed to the senior year unless a student be sure that he desires no further work in this department.

65. *Introduction to Poetry.*—(First Semester.)

Two sections: Section a, M., Tu., Th., 9:20; section b, M., W., F., 10:15.

66. *Introduction to Prose.*—(Second Semester.)

Two sections: Section a, M., Tu., Th., 9:20; section b, M., W., F., 10:15.

The chief purpose of these courses is to give the student such information and training as will enable him to see what constitutes good literature and lead him to read good literature with greater intelligence and keener delight.

Courses 65 and 66 are prerequisite to the other courses in English Literature. One of them is also a required minor for all majors, although American Literature 75 or 76 may be substituted if the student is not planning to take further work in the department.

*83. *Greek Masterpieces thru English Translations.*—(First Semester.)

M., Tu., Th., 9:20.

A careful study will be made of the various forms of Greek Literature and the chief works in the field of lyric and epic poetry, the drama, history and philosophy.

- *84. *Latin Masterpieces thru English Translations.—*
(Second Semester.)
 M., Tu., Th., 9:20.
 The continuation of the preceding course.

ADVANCED COURSES

In addition, at least two of the following courses are offered each year:

1. Chaucer, 67, and Word Study, 68.
2. Shakspeare, 71, and Bible Literature, 70.
3. History of English Literature to the Nineteenth Century, 73, and Nineteenth Century Literature, 74.
4. American Literature, 75 and 76.
5. English Fiction, 79 and 80.
6. English Drama, 81 and 82.

In 1917-1918 groups 2 and 5 were offered; in 1918-1919 groups 3 and 4 will be offered.

- *73. *History of English Literature to the Nineteenth Century.—(First Semester.)*
 M., W., F., 8:25.

The work includes the history of English Literature, and much reading illustrative of the various literary types and representative of the main movements in English Literature.

- *74. *British Poets and Essayists of the Nineteenth Century.—(Second Semester.)*
 M., W., F., 8:25.
75. *American Literature.—(First Semester.)*
 M., W., F., 7:30.

After a somewhat rapid survey of the literature of the Colonial and Revolutionary periods, the work centers in a study of the leading poets and prose writers of our later literature.

76. *American Literature.—(Second Semester.)*
 Continuation of Course 75.

Students are not allowed to enter this course in the middle of the year.

PUBLIC SPEAKING

MISS MCEBRIGHT.

A three-years' course is offered in the department of Public Speaking. Progressive educators recognize a well-trained voice with a well-trained mind to be an essential part of education. The voice is the reporter of the individual. A distinct and cultivated enunciation, a well-controlled and cultured voice, an effective and natural manner of speech, are all valuable assets in the business, educational and social world.

91. *Elementary Course.—(First Semester.)*

M., W., F., 10:15.

Fundamental principles. Voice technique, tone placing, tone building, enunciation, literary analysis, gesture, evolution of expression—vocal and physical.

92. *(Second Semester.)* Continuation of 91.

Literary analysis, gesture, evolution of expression, development of imagination and sympathetic insight into literature.

*93. *Advanced Course.—(First Semester.)*

M., W., F., 8:25.

Literary, dramatic, artistic interpretation, character study. Shakspeare's plays. Classic comedies.

*94. *(Second Semester.)*

Course 93 continued. Shakspeare's plays, extempore speeches, critiques, personal development.

*95. *Dramatic Study.—(First Semester.)*

W., 9:20.

The Dramatic Study Club meets once a week for class work. Only junior and senior students who have had one year of Public Speaking or its equivalent are eligible to this class. Any member of this class pledges himself not only to the class, but to all rehearsals called by the President of the Study Club, or by the Instructor of Public Speaking. This club presents publicly all plays rehearsed. At least one play a semester will be presented.

*96. *Dramatic Study.—(Second Semester.)*

Continuation of Course 95.

Instruction will be given those students who enter the oratorical and prize speaking contests.

97. *Physical and Voice Work.—(First Semester.)*

W., 11:10.

Open to all upper-classmen.

Special attention is given to the needs of the individual student.

98. *Continuation of 97.—(Second Semester.)*

GERMAN LANGUAGE AND LITERATURE

PROFESSOR BULGER

DR. KOLBE

It is the aim to make German the language of the classroom. In the elementary courses it is sometimes necessary to use English for the purpose of explanation; however, the effort is made to reduce this amount to the minimum. For the advanced courses all lectures and reports are in German. The intention is to accustom the student to using the language and hearing it used by others. Idiomatic and technical accuracy in the use of the language, and, above all, care in pronunciation, are insisted upon. Courses given as prose composition are more in the nature of free reproduction of German texts than of translation.

Major in German and French. German and French may be combined to make a major. Twelve hours of work in each language above the freshman requirement are required for a major.

Order of German courses for this major. Students who take German 101 and 102 in freshman year should elect 103 and 104 the next year, and the advanced course given the year following that.

Students who take German 131 and 132 in freshman year should take advanced courses (beyond 103 and 104) in any two consecutive years.

Students presenting German from Secondary Schools are admitted as follows:

Those presenting one or two years are admitted on probation to 103.

Those presenting three or four years will enter 131.

COURSES OF STUDY

INTRODUCTORY COURSES.

(Given every year.)

101. *First Year German.—(First Semester.)*
M., Tu., W., Th., 9:20.

Elementary grammar, stories and poems, simple conversation. Students with one year of secondary school German may elect this course but will receive only half credit (2 hours).

102. *First Year German.—(Second Semester.)*
M., Tu., W., Th., 9:20.

A rapid review of grammar. The reading of some simple connected text will be started about Christmas and continued to the end of the second semester. The aim of the course is to enable the student to read and understand German of ordinary difficulty. Oral and written reproductions of the reading lesson are required.

103. *Second Year German.—(First Semester.)*
M., W., F., 10:15.

This course is intended for those who have completed courses 101 and 102, or their equivalent. Students with one year of secondary school German will be admitted *on probation*. The time will be divided between prose composition and reading of prose and poetical works. Reproductions in German of the lesson and written themes are required. Students with two years of secondary school German must elect this course.

104. *Second Year German.—(Second Semester.)*
M., W., F., 10:15.

Course 104 carries out in the second semester the work of Course 103.

131. *Fifth Year German.—(First Semester.)*
M., W., F., S., 11:10.

Students who present three or four years of secondary school German for entrance are required to take this course. Such students are not eligible to other courses. The work will consist of a rapid review of grammar, prose-composition and reading and discussion of representative works

from modern literature. Outside reading, preparation of German themes in connection with the works read, investigation of assigned topics in the library, and note books required. The aim is to develop accuracy and certainty in the use of the spoken language.

132. *Fifth Year German.*—(Second Semester.)

A continuation of Course 131.

129. *Scientific German.*—(First Semester.)

Tu., Th., at 8:25.

Prerequisite, 104 or 131. Chemistry and Physics, Exercises based on text. Special vocabulary drill.

Given in 1918-1919 and alternate years.

130. *Scientific German.*—(Second Semester.)

Tu., Th., at 8:25.

A continuation of course 129. Technical subjects.

Given in 1918-1919 and alternate years.

ADVANCED COURSE

One of the following advanced courses will be given:

107-108. Goethe.

109-110. The German Novel.

111-112. History of German Literature.

115-116. Schiller.

119-120. German Life and Customs.

123, Lessing, and 118, Modern Drama.

Three credit hours. Time of meeting to be arranged.
Prerequisite, 103 and 104, or 131 and 132.

ROMANCE LANGUAGES

PROFESSOR HITCHCOCK

DR. SHAPIRO

MR. TULLER

Major: Twenty-four hours in Spanish and French, not including Courses 151 and 152, constitute a major in the Romance Languages.

FRENCH

151. *Beginning French.*—(*First Semester.*)
M., Tu., W., Th., 9:20. If necessary, a second section reciting M., W., F., S., at 10:15.
Olmsted's Elementary French Grammar, Reader, *Petits Contes de France.*
152. *Beginning French.*—(*Second Semester.*)
Continuation of course 151. Selected readings.
153. *Second Year French.*—(*First Semester.*)
M., W., F., 8:25.
Review of grammar. Composition. Selected Readings.
154. *Second Year French.*—(*Second Semester.*)
Continuation of Course 153. Selected plays of Molière.
165. *French Diary.*—(*First Semester.*)
150—200 words in French to be entered daily in notebook. Bi-weekly conferences with the instructor. No class room work. One term-hour.
166. *French Diary.*—(*Second Semester.*)
Course 165 continued.
167. *French Conversation.*—(*First Semester.*)
Hour arranged. Allen and Schoell's French Life. Two term hours.
168. *French Conversation.*—(*Second Semester.*)
Course 167 continued.
- 155-164. *Advanced French.*
At least one course in advanced French will be given each year, which will be chosen from the following list: The Short Story in French Literature, Modern Prose and Poetry, the Classic Period, the Works of Victor Hugo, History of France studied and recited in French.
Two term hours. Hour to be arranged.
169. *Scientific French.*—(*First Semester.*)
Hour to be arranged. Two term hours.
Prerequisite, at least one year of French. Reading of selected scientific texts. Composition.
170. *Scientific French.*—(*Second Semester.*)
Hour to be arranged. Two term hours.
Continuation of course 169.

SPANISH

171. *Beginning Spanish.—(First Semester.)*
M., W., F., S., 11:10.
Espinosa and Allen's Elementary Spanish Grammar.
Turrell's Reader.
172. *Beginning Spanish.—(Second Semester.)*
M., W., F., S., 11:10.
Course 171 continued. Selected texts.
173. *Second Year Spanish.—(First Semester.)*
M., W., F., 10:15.
Review of grammar. Composition. Selected texts.
174. *Second Year Spanish.—(Second Semester.)*
Course 173 continued.

MENTAL AND MORAL PHILOSOPHY

PROFESSOR O. E. OLIN

Major: Philosophy may be combined with Economics for a major, Philosophy and Economics, twelve term hours required in each subject.

- *201. *Psychology.—(First Semester.)*
M., W., F., 8:25. Text-book: James' Psychology.

Psychology is an elective for one year in either a major or a minor group. A text-book affords the basis of study, and is supplemented by laboratory work which follows the lines of modern investigation.

- *202. *Psychology.—(Second Semester.)*
Continuation of Course 201. One hour of seminar work a week is given in this semester.

- *203. *Ethics.—(First Semester.)*
M., W., F., 10:15. Text-book: Mackenzie.

Moral Philosophy is an elective for two semesters. The subject embraces theoretical and practical ethics and is studied with reference to the origin and development of ethical ideas as viewed in the light of modern philosophy. Open only to those who have had Psychology.

- *204. *Ethics.—(Second Semester.)*
Continuation of Course 203 with Natural Theology.
Text-books: Mackenzie and Valentine.

During the last thirteen weeks of the second semester, the course in Ethics is supplemented by a course in Natural Theology. A text-book is used as an outline, while the student is given problems for original investigation and application, and topics for library research.

LOGIC

PROFESSOR O. E. OLIN

205. *Logic.*—(*First Semester.*)
M., W., F., 7:30. The text-book, Jevons' *Advanced Logic*. Any other logic is good for reference: Mill, Bain, Hibben, Davis, Robinson, and others.

It will be well for students to elect logic early, because inductive and deductive reasoning are fundamental to all other studies.

SOCIAL SCIENCE

Economics, Sociology and Political Science

PROFESSOR O. E. OLIN

Major: Economics can be combined with Philosophy for a major, Philosophy and Economics, twelve hours of each.

Such students as desire to take all the work in this department are advised to take Courses 251 and 261 in the sophomore year.

The courses are so arranged that they can be taken in consecutive terms, and should be taken in the following order:

Course 251 should precede any other; 261 should precede 262; 252 should follow 251; the other three courses can then be taken at any time.

251. *Political Economy.*—(*First Semester.*)
M., Tu., Th., 9:20. Text-book: Ely's *Outlines*, revised edition. References to Seligman, Fetter, Seager, Laughlin, Blackmar, Bullock, Fairchild and others.

This is an introductory course, designed for the study of the leading principles of the science, and aiming to acquaint the student with the data of economic inquiry and the nature of economic laws.

252. *Sociology.*—(*Second Semester.*)

✓ M., Tu., Th., 9:20. Text-book: Fairbanks' Introduction to Sociology. References: Small and Vincent, Dealey, Ross, Blackmar, and others.

An elementary course designed to introduce the student to the principles of human association, and to develop the power of observing and analyzing social facts.

*253. *Sociological Problems.*—(*First Semester.*)

Tu., Th., 7:30.

This course will be an application of the principles brought out in Sociology to a few of the problems of society. The work will be lecture and research, with two hours of field work each week.

254. *Economic Problems.*—(*Second Semester.*)

Tu., Th., 7:30.

A detailed study of the problems and theories involved in some of the great economic questions now before the American people, such as transportation, taxation, corporations, money, and banking. The method is lecture, seminar, and research, with reference to late economic books, journals and periodicals. Field work may be taken.

261. *Political Science.*—(~~*First Semester.*~~)

✓ Tu., Th., 8:25. Text: Leacock's Elements of Political Science.

A study of the nature of the state, the organization of government of every kind, and the province of government. The course is designed to open the field of Political Science, and lay a foundation for later college or university work.

262. *Federal Government.*—(*Second Semester.*)

Tu., Th., 8:25.

This course continues Political Science in the study of Federal Government, by a comparative study of the federal governments of the world. Lecture, library, and research work.

*264. *Municipal Organization and Management.*—(*Second Semester.*)

✓ M., W., 7:30. Three term hours.

A detailed study of the organization and administration of city government in Europe and America. A compara-

tive study of Federal Form, Commission Form, and Manager Form of Government. A careful study of municipal ownership of public utilities. Two lectures each week, and two hours of field work in the municipal departments of Akron. Open only to those who have had Political Science.

HISTORY

PROFESSOR THOMPSON

Major: Twenty-four hours elected above freshman year constitute a major in History.

273. *History of England to the Seventeenth Century.—(First Semester.)*
M., W., F., 11:10.

The formation of the English race and civilization, the growth of a national government, economic and social conditions, influence of the church. Frequent readings from original sources, and from authorities other than the prescribed text-book.

274. *History of the British Empire from the Seventeenth Century to the Present Time.—(Second Semester.)*
Continuation of 273.

Emphasis will be laid on the history of the various colonies, and the present problems of the British Empire.

275. *History of Europe. The Development of Europe from 1789 to 1848.—(First Semester.)*
M., W., F., 8:25.

276. *History of Europe from 1848 to the Present Time.—(Second Semester.)*
Continuation of 275.

277. *American History, 1789-1850.—(First Semester.)*
Tu., Th., 8:25.

278. *American History from 1850 to the Present Time.—(Second Semester.)*
Tu., Th., 8:25. Continuation of 277.

281. *Ancient History—The Orient and Greece.—(First Semester.)*
Tu., Th., 9:20.

282. *Ancient History—Rome.—(Second Semester.)*
Continuation of 281.
Tu., Th., 9:20.

283. *Growth of the French Nation.*—(First Semester.)
Tu., Th., 7:30.
290. *Current Events.* (For Freshmen only.)—(Second Semester.)
Three sections: (a), Tu., 7:30; (b), Th., 7:30; (c),
hour to be arranged.
291. *Current Events.* (For Upper Classmen.)—(First Semester.)
W., 9:20.
292. Continuation of 291.
287. *History of Art.*—(First Semester.)
M., W., 10:15.
288. Continuation of 287.—(Second Semester.)
M., W., 10:15.

MATHEMATICS—PURE AND APPLIED

*PROFESSOR LOCHNER

ASSISTANT-PROFESSOR OLIN

MR. MORRIS

*MR. ADAMS

MR. CULLUM

MR. EGBERT

Major in Mathematics and Physics

Calculus, ten term hours. ✓

Surveying, two term hours. ✓

Physics, ten term hours. ✓

Mechanics, two term hours.

Total, twenty-four term hours.

303. *College Algebra.*—(First Semester.)
M., W., F., 8:25, beginning second month of the
semester.

At the end of the first month the freshman class is divided into two classes, depending upon the ability and preparation of the student. Those qualified are allowed to continue their work in course 301 in Trigonometry. All others are required to take additional work in Algebra in course 303.

The work in this course consists of a general review of the high school algebra to be followed by regular work in college algebra.

*On leave of absence.

301. *Plane and Spherical Trigonometry.*

(Given both first and second semesters.)

First semester in two sections. Section a, M., W., F., S., at 8:25. Section b, M., W., F., S., at 11:10.
 Second semester, only one section at 8:25.

This work includes functions of angles, trigonometric equations, identities, solution of plane and spherical triangles and inverse functions.

302. *Plane and Solid Analytic Geometry.—(Second Semester.)*

In two sections. Section a, M., W., F., S., at 8:25.
 Section b, M., W., F., S., at 11:10. Prerequisite for the course, Plane and Spherical Trigonometry.

The work includes: The straight-line and general equation of the first degree, polar co-ordinates, transformation of co-ordinates, conic sections and equations of the second degree, tangents, normals, loci, poles and polars, the general equation of the second degree, a few higher plane curves, the plane and straight-line in space and surfaces of the second order.

305. *Differential Calculus.—(First Semester.)*

At 7:30. M., Tu., W., Th., F.

Prerequisite: Courses 301 and 302.

The work includes differentiations, series, expansion of functions, indeterminate forms, maxima and minima of functions of one or more variables, partial derivatives, curvatures, tangents and normals, evolutes, involutes, order of contact and envelopes.

306. *Integral Calculus and Differential Equations.—(Second Semester.)*

At 7:30. M., Tu., W., Th., F.

Prerequisite: Courses 301, 302 and 305.

The work includes integration of standard forms, integration of rational fractions, integration by various devices, summation and the definite integral, application to areas and volumes of revolution, moments of inertia, center of gravity of any solid, application to pressure of fluids, force of attraction and multiple integration; also the solution of ordinary differential equations.

304. *Elementary Surveying.*—(*Second Semester.*)
(Two term hours.) One recitation each week, F., 11:10, to be accompanied by at least forty hours of field work to be put in during the afternoons and Saturday mornings if necessary. Required of scientific students with major in Mathematics and Physics. Elective for all others except freshmen. Prerequisite: Plane and Spherical Trigonometry.

The work of the course covers the general principles of leveling and transit surveying, and the making of one map.
Text: Raymond.

- *320. *Descriptive Astronomy.*—(*Second Semester.*)
M., W., F., 10:15. Elective for those who have completed Mathematics 301. Text: Young's Manual of Astronomy.

Celestial sphere, astronomical instruments, elementary celestial mechanics, solar system, fixed stars, double stars, nebulae, constellations.

Instruments in the observatory are used to illustrate the subject.

PHYSICS

341. *General Physics.*—(*First Semester.*)
Three recitations a week: M., Tu., Th., 9:20.
The work includes elementary mechanics, wave motion, sound and heat. Required of all scientific students, elective for all others. Laboratory M., W., 1:00-3:00. (Five term hours.)

Prerequisites for the course: A year of Elementary Physics, a year of Chemistry, Plane Trigonometry and Plane Analytical Geometry.

342. *General Physics (Continued).*—(*Second Semester.*)
Required of all scientific students, elective for all others. The work includes light, electricity and magnetism. Prerequisite: Course 341.

345. *Analytical Mechanics.*—(*Second Semester.*)
(Two term hours.)
Required of all students majoring in Mathematics and Physics; elective for all who have had Calculus and Physics 341.
Given in alternate years. Not offered 1918-1919.

CHEMISTRY

PROFESSOR SIMMONS
 ASSISTANT-PROFESSOR SIBLEY
 MRS. WEILER
 ASSISTANT, MR. BROWN

Major: Twenty-four term hours in Chemistry above the freshman year constitute a major.

351. *General Chemistry.—(First Semester.)*
 A study of the newer theories of Chemistry. Six hours per week. Section a—recitations, M., W., 7:30; laboratory, 1:00-3:00, M. and F. Section b—recitations, Tu., Th., 8:25; laboratory 3:00-5:00 M. and F. (Four term hours.)
353. *General Chemistry.—(First Semester.)*
 Text: Kahlenberg. Six hours per week. Tu., and Th., 7:30; Tu., and Th., 1:00-3:00. (Four term hours.) Required of freshmen beginning Chemistry.
352. *General Chemistry.—(Second Semester.)*
 Six hours per week. Continuation of 351. Inorganic Preparations; Blow-pipe Analysis.
354. *General Chemistry.—(Second Semester.)*
 Six hours per week. Continuation of 353. (Four term hours.) Inorganic Preparations.
365. *Qualitative Analysis.—(First Semester.)*
 Lecture F., 2:00. Laboratory M., W., F., 3:00-5:00. (Three term hours.) Open to students who have passed 352 or 354.
366. *Qualitative Analysis.—(Second Semester.)*
 Lecture F., 2:00. Laboratory M., W., F., 3:00-5:00. (Three term hours.)
- *357. *Organic Chemistry.—Recitations and Laboratory Practice.—(First Semester.)*
 Six hours per week, T., Th., 7:30; Th., 1:00 to 5:00. (Three term hours.) A study of the aliphatic series of hydrocarbons and their derivatives.
 Required of all students who select Chemistry as their major. No credit is given for Courses 357 and 358 unless Courses 367 and 368 are also taken later.
- *358. *Organic Chemistry.—(Second Semester.)*
 A continuation of Course 357.

- *359. *Quantitative Analysis.—(First Semester.)*
Lecture and Laboratory Practice, F., 11:10; Tu., 1:00-5:00; F., 1:00-3:00. (Three term hours.)
- *360. *Quantitative Analysis.—(Second Semester.)*
Continuation of 359.
- *363. *Chemistry of India Rubber.—(First Semester.)*
F., 7:30; Tu. and Th., 1:00-5:00. (Three term hours.) Lecture and laboratory covering the theory and practice in the chemistry of india rubber.
The course pre-supposes a year of organic chemistry and a year of quantitative analysis.
- *364. *Chemistry of India Rubber.—(Second Semester.)*
Continuation of 363.
- *367. *Organic Chemistry.—Lectures, Recitations and Laboratory Practice.—(First Semester.)*
Six hours per week. Tu., 1:00 to 5:00; two recitations, time to be arranged. (Three term hours.)
A study of the aromatic series of hydrocarbons and their derivatives.
- *368. *Organic Chemistry.—(Second Semester.)*
A continuation of Course 367.
(Required of students who major in Chemistry.)
- *369. *Advanced Practical Chemistry.—(First Semester.)*
Laboratory and Seminar. (Three term hours.) F., 1:00-5:00; S., 7:30-12:00. (Courses 360 and 368 required.) The course will deal with problems of an industrial nature and with co-operative work in connection with the Bureau of City Tests.
- *370. *Advanced Practical Chemistry.—(Second Semester.)*
Continuation of 369.

BIOLOGY

PROFESSOR PLOWMAN

MR. SPEIDEL

Twenty-four semester hours above the freshman year in Biology is the minimum requirement for a major in this department. Minor requirements are stated on page 41. Students who desire to do their major work in this department

should carry Biology 401-02 as their first year science, and should do their required work in Physics and Chemistry in the second and third years, respectively. Prospective students in this department are requested to observe that almost all courses above the freshman year are offered in alternate years and that schedules must be arranged accordingly.

401. *General Biology.—(First Semester.)*

Lectures, Tu., Th., 8:25. Seminar, W., 11:10, or Th., 3:00. Laboratory: section a, M., W., 1:00 to 3:00; section b, Tu., Th., 1:00 to 3:00. (Four term hours.)

A study of parallel groups of the lower and simpler plants and animals, seeking to familiarize the student with the fundamental laws and processes of living things, and to emphasize the essential unity of the whole realm of life.

Abbott's *General Biology* is used as a collateral text. A special notebook, including outlines of the biosphere, chart outlines, and all necessary paper, will be supplied by the department, at a price of \$1.25.

402. *General Biology.—(Second Semester.)*

A continuation of 401.

While the studies of the first semester deal with the first three phyla of the animal kingdom and with thallophytes, the course in the second semester includes the remaining invertebrate animals and non-flowering plants, together with a very brief examination of a few higher animals and plants, for the purpose of general comparison.

The courses in General Biology are designed to meet the needs of students seeking the broadest liberal culture, as well as of those who wish to specialize in biological lines. When taken as minors under another department, these courses should be carried not later than the sophomore year.

403. *Vertebrate Zoology.—(First Semester.)*

Lectures, M., W., F., 10:15. Laboratory four to six hours per week. (Four term hours.) Given in 1917-1918 and alternate years.

A study of the comparative anatomy and histology of vertebrate animals, together with their ecologic relations and outlines of their classification.

404. *Vertebrate Embryology.*—(Second Semester.)

Lectures, M., W., F., 10:15. Laboratory four to six hours per week. (Four term hours.) Given in 1917-1918 and alternate years.

A comparative study of the early developmental stages of vertebrate animals. Laboratory work is confined chiefly to a study of the embryology of the chick. In the lectures considerable attention is given to the study of thremmatology.

405. *Vascular Plants.*—(First Semester.)

Lectures M., W., F., 10:15. Laboratory four to six hours per week. (Four term hours.) Offered for 1918-1919, and alternate years.

A study of the morphology, anatomy, physiology and ecology of vascular plants, with special reference to their economic interest and importance, including particularly those forms that supply foods, drugs and timber.

407. *Human Physiology.*—(First Semester.)

Lectures and recitations, M., W., Th., 9:20. Three to five hours' laboratory work per week. (Four term hours.) Offered for 1918-1919, and alternate years. Men's course.

A detailed study of the human mechanism and its functioning. Halliburton's text, or its equivalent, is used in the class, while constant reference is made to the works of Gray, Flint, Howell and others. Each student should be provided with a good pocket medical dictionary. A fair knowledge of physics and chemistry will be found quite essential in the work of this course. Open only to college men.

408. *Human Physiology.*—(Second Semester.)

Continuation of 407. Men's course.

409. *Human Physiology.*—(First Semester.)

Lectures and recitations, M., W., Th., 9:20. Three to five hours' laboratory work per week. (Four term hours.) Given in 1917-1918, and alternate years. Women's course.

This course is essentially the equivalent of course 407, but with greater emphasis upon its hygienic relations, and the physiology of development. The same textbook and references are used here as in course 407. Open only to

college women. Required in Curtis School of Home Economics.

410. *Human Physiology*.—(Second Semester.)

Continuation of 409. Women's course.

411. *Animal Histology*.—(First Semester.)

Lectures, Tu., Th., 9:20. (Two term hours.) Given in 1917-1918.

A study of the minute structure of the animal body, the origin and mode of development of tissues, and methods of preparation of material for microscopic examination.

Prerequisite: at least one year of biology.

412. *Animal Histology*.—(Second Semester.)

Continuation of 411.

413. *Freshman Hygiene*.—(First Semester.)

Lectures, W., 3:00. (One term hour.)

A course of lectures dealing primarily with the subject of personal hygiene, to the end that young college men may better conserve their energy and health, and thereby fit themselves for lives of the greatest efficiency, as students and as citizens. Required of all first-year men, in connection with military work.

415. *Freshman Hygiene*.—(First Semester.)

Lectures, Th., 10:15. (One term hour.)

A course parallel to 413, particularly adapted to the needs of young college women. Required of all first-year women.

416. *Organic Evolution*.—(Second Semester.)

Lectures, M., W., F., 10:15. Laboratory and reference reading, three to four hours per week. (Four term hours.) Offered for 1918-1919, and alternate years.

A survey of the history of the doctrine of organic evolution, together with a detailed consideration of its underlying principles, and its bearing upon other fields of thought and investigation. Heredity and eugenics are dealt with from the point of view of possible human betterment.

417. *General Geology*.—(First Semester.)

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

The work includes dynamic, structural, physiographical and historical geology. Instruction is given in regard to

geological forces and their effects, the formation, alteration and destruction of land masses, the succession of geological ages with regard to both their physical features and their plant and animal life. Laboratory study of the principal kinds of rocks, and of representative types of fossils. The course is presented mainly from the biological point of view.

418. *Conservation.*—(Second Semester.)

Two lectures per week, and reference reading. (Two term hours.) Tu. and W., 3:00.

A study of natural resources, such as minerals, fuels, timber, soils, water, plant and animal crops, and human life.

It will be observed that courses 401-402, 413, 415 and 418 are offered every year. Courses 403-404 alternate with 405-416, and courses 407-408 alternate with courses 409-410. General Biology 401-402 is essential as an introduction to any of the more advanced courses, but above the freshman year the work of this department may be taken in any order of sequence. Students doing major work in this department should choose a thesis subject not later than April first of the Junior year.

PHYSICAL EDUCATION

MR. SEFTON, DIRECTOR

Aims: Physical education is conducted under the direct supervision of an experienced physical director, who is a member of the college faculty.

The aims of the department are to develop organic power, the basis of vitality, the prerequisite to physical and mental efficiency; to secure and maintain good posture, a harmonious muscular development, and a certain degree of bodily skill and grace.

A thoro physical examination is given, and measurements taken of all students on entering and also on leaving the University. Physical defects, abnormalities, and weaknesses are noted, and judicious, healthful exercise is prescribed to fit the student's individual needs; this may include athletic sports or remedial gymnastics.

College students of the three upper classes desiring to specialize as coaches or instructors in certain sports, games, or events, may do so by conferring with the physical director.

All freshmen are required to take the course in Hygiene given by Dr. Plowman the first semester, one hour a week.

Equipment: The gymnasium is one hundred feet in length and fifty feet in width. On the ground floor are locker rooms and bath rooms. Above is the practice floor where exercises are conducted. Directly over the practice floor is the running track. The main floor of the gymnasium (80 feet by 50 feet) is well equipped with modern gymnastic apparatus.

A four-acre athletic field is provided for the use of the men students, and all intercollegiate and other games and meets are held there. The field is equipped with a grandstand, dressing rooms, cinder running track, baseball diamond, and football field with bleachers to accommodate 4000 spectators.

Control: The intercollegiate sports are under the government of the Ohio Athletic Conference, the faculty committee, appointed by the President, and a Board of Control, consisting of members from the faculty and representatives of the student body elected by the students.

A limited number of intercollegiate games is scheduled subject to the approval of the faculty.

Awards: The Athletic Association is honored by the gift of the Medal presented by Mr. Frank Talbot Fisher, of New York, and also by his very generous donation of prizes for the Track Meet. They consist of two cups of the value of \$50 each and a Medal, and are given under the following conditions:

The Individual Cup is to be awarded to the athlete making the greatest number of points in the Track Meet, and must be won by him three years in succession in order to become his permanent property.

The Class Cup is the permanent property of the Athletic Association and is to be competed for by classes each year. An honorary position upon the cup is awarded the name of the class scoring the greatest number of points in each annual Track Meet.

The medal is to be given to the athlete scoring the greatest number of points, and at once becomes his personal possession. One such Medal is to be offered for each annual Track Meet.

The Individual Cup and the Medal are open to all bona fide students. The Class Cup is open to the four classes. The annual Track Meet to compete for these prizes will be held early in June of each year.

MILITARY TRAINING

MR. SEFTON, SUPERVISOR

For the present, military training is being substituted for the customary work in physical training for the men students.

Registration: All able-bodied male students must register for military training on entering the University and must take the full required work therein unless excused by the Supervisor of Military Training in person. No excuses valid until passed by the Supervisor, and their time limit will depend upon circumstances.

Organization: The students are organized into a battalion of three companies, two companies in the Arts College and one in the Engineering College. The usual staff will be appointed. The Supervisor acts as Major of the battalion.

Officers are promoted solely on the basis of merit. Since few men in their freshmen year have the ability to command, original appointments are generally limited to the upper classes. But it sometimes happens that exceptional men with previous service in the guard or military prep. schools, may receive appointments as second lieutenants in the second semester of the first year.

Character of the Work: Drill is held twice a week throughout the year, on Tuesday and Thursday from 10:15 a. m. to 12:00 m. In addition, each company meets its captain on Wednesday, in a designated classroom; upper classmen from 2:00 to 3:00 p. m., and freshmen from 3:00 to 4:00 p. m. At this time the work done or to be done is explained, and the men questioned as to their knowledge of the drill regulations, administration, battle leadership, map reading and sketching, etc. The oral and written quizzes and examinations must be passed satisfactorily by every student before any credit will be given for any of the subjects in which the student then happens to be enrolled.

Two hours' credit each semester is allowed, which two hours is considered in the total hours each student is allowed to carry under the rules of the college.

COLLEGE OF ENGINEERING

FRED E. AYER, C. E., DEAN

GENERAL INFORMATION

The Directors of the Municipal University of Akron established the College of Engineering in 1914 and adopted the five-year co-operative course, patterned after the "Cincinnati Plan."

The "Cincinnati Plan" aims to give the student a thorough training in both the theory and practice of engineering by requiring the practice to be learned under actual commercial conditions in local industrial organizations and the underlying science to be studied in the University under trained educators. To accomplish this the students are grouped in two sections, one of which is at work and the other in attendance at the University. For example, A, who is in section one, attends classes at the University for two weeks while B, who is paired with A and who is in section two, is at work. Then they change places and B attends the University for two weeks while A is at work. Of course this necessitates the giving of all University work twice, once for each section.

Five years of eleven months each are required to complete the course, each student being allowed a vacation of one week at Christmas time, one week at Easter or during commencement week, and two weeks in the latter part of the summer.

Candidates for admission are expected to spend the summer preceding their entrance at continuous work on a job provided by the University. This probationary period affords the student an opportunity to test his fitness and liking for the course and demonstrates his ability to satisfy his employer. Candidates who have definitely decided to take the course and who can present satisfactory evidence of their ability to do the outside work, may be excused during the first summer's probationary period. But, in order to provide a job for each entering student, it is necessary that applications be received prior to July first. Students applying after that date will not be accepted unless there are vacancies due to resignations.

While a student is at work, he is subject to all the rules and regulations imposed by his employer upon the other employees. All existing labor laws and conditions, including those pertaining to liability for accident, apply to the student in the same way as to any other employee.

In order to operate a co-operative course in engineering, the Engineering College must be located in or near an industrial center and while there are over six hundred colleges and universities in the United States, yet comparatively few of them are so located that such a course is practicable. Akron is essentially a manufacturing center, and the President and Directors of the Municipal University of Akron selected this type of engineering education as being the latest and the one best adapted to the city's needs, therefore no other courses in engineering will be offered.

SHOP WORK

The Dean of the College of Engineering and the employer so plan the work that the student gets a carefully graded training beginning with work requiring no skill or experience and ending with actual engineering work.

The shop work and the University work will be co-ordinated by a technically trained man, experienced in engineering practice. Thruout the five years of University work he will give courses whose aim is twofold. First, they supplement the outside training by explaining the different operations, the sequence of work, the technicalities of the machines, and, in short, any part of the work which the student does not understand, and which the foreman has not time to explain. This shows the student the vast educational opportunities open to him in his outside work and makes him more useful to his employer. Secondly, these courses cover the field of factory organization and cost accounting, routing of work for efficient production, study of the conditions leading to maximum production, and the influence of shop environment. The instruction given in all the courses is carefully planned to develop in each student the power of observation and the ability to analyze the problems arising in his work.

The outside work, properly co-ordinated with the University training, furnishes a large part of the technical detail required in engineering subjects.

Wages

Engineering students are paid for their work in the shops the same as other employees. Beginners are paid a little more than apprentices and are increased according to a rate agreed upon by the employer and the Dean of the Engineering College. The minimum wage paid is fifteen cents per hour for Engineering students and \$75.00 per month for Manufacturing Production students. Students are paid only for the time actually employed, and receive their wages direct, as does any other employee.

ADMISSION

Candidates for admission must be at least sixteen years of age, and must present fifteen units of secondary school work. Students will be admitted with entrance conditions amounting to not more than one unit. Such conditions must be removed during the freshman year.

ENTRANCE REQUIREMENTS

The following units must be presented without conditions:

*English.....	3	units	
Mathematics	2½	units	(½ unit of Solid Geometry required)
Foreign Language.....	2	units	(In one language)
History	1	unit	
Chemistry or Physics..	1	unit	
Elective	5½	units	

For further details relative to entrance requirements, see page 22 of the General Catalog.

COURSES OF STUDY

The courses of study given in the Engineering College are of the same grade as those required in any recognized technical institution. The student is required to maintain good standing in both his outside and University work, and the work in both places is so planned that he will be equipped at graduation to enter practice at once without further preliminary training by his employer.

*Graduates of the Commercial Course in Akron High Schools are admitted to the Manufacturing Production course without condition in English.

WAR EMERGENCY COURSE

On account of existing war conditions, it has been deemed advisable to change the order of giving engineering subjects so that students who enlist after one year at college will be qualified to do simple work in engineering regiments. To this end, the first year of work will consist of a minimum of theory and a maximum of practice.

The profession of engineering can be divided into two parts, art and science. Engineering art includes that part of the work which requires manual as well as mental training and is taught by means of practice work in drawing, surveying and different engineering laboratory courses. Engineering science includes all theory underlying good engineering practice, a few examples of which are mathematics, chemistry, physics, strength of materials and applied mechanics. By confining the work of the first year almost entirely to those courses which give practice in the art of engineering, students who have completed only one year at college will be able to do engineering work under supervision. This method will also give the student an early opportunity to learn whether engineering is the profession for which he is best adapted. Only the order and not the content of the complete course will be changed, therefore, every subject given in the first year will be credited toward an engineering degree.

MILITARY TRAINING

Military training is required of all students and consists of four hours of drill and one hour of recitation per week. Uniforms are required.

DEGREES

The degrees of Civil Engineer, Mechanical Engineer, Electrical Engineer and Bachelor of Science in Manufacturing Production will be given to those students who satisfactorily complete the required work in those departments. In addition to his diploma, each student will receive a certificate showing his practical experience in detail.

FEES

Resident Students:—According to the rules adopted by the Board of Directors, all students who are residents of the City of Akron, or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay an incidental fee of \$10.00 per semester, covering registration, incidentals and student activity fee. If not paid within one week after registration the fee is \$12.50 per semester. Small fees to cover breakage and materials are also charged to all students in laboratory courses.

Non-resident Students:—The tuition for non-resident students is \$25.00 for the first semester, \$25.00 for the second semester and \$10.00 for the summer term in addition to the incidental fee of \$10.00 per semester. Small fees to cover breakage and materials are charged to all students in laboratory courses. If not paid within one week after registration the tuition fee is \$30.00 for the first and second semesters and the incidental fee is \$12.50 and the tuition for the summer term is \$12.50.

There are two registration days for students in the College of Engineering, one for each section. For example, students in section one will register on September 16, 1918, and those in section two on September 30, 1918. Students registering after these dates are charged an additional fee of one dollar for the first day and twenty-five cents per day for each succeeding day thereafter, but no one will be accepted later than five days after the date set for registration.

Laboratory Fees

The following laboratory fees are charged for courses in the College of Engineering. By action of the Directors these laboratory fees are collectable strictly in advance and are a necessary prerequisite to enrollment in classes.

Chemistry 741, 742, per semester	\$3.00
Deposit for breakage in all courses, per semester	5.00
Surveying 830, 831, per summer term	2.00
Materials, Laboratory, per semester	2.00
Cement Laboratory, per semester	2.00
Mechanical Laboratory, per semester	2.00
Electrical Laboratory, per semester	2.00

The unused portion of the breakage deposit will be returned at the end of each semester.

ESTIMATED EXPENSE OF FRESHMAN YEAR

First Semester

	Resident	Non-Resident
Tuition	Free	\$25.00
Fees	\$18.00	18.00
Books and Drawing Instruments	22.00	22.00
	\$40.00	\$65.00

Second Semester

Tuition	Free	\$25.00
Fees	\$18.00	18.00
Books	6.00	6.00
	\$24.00	\$49.00

Summer Term

Tuition	Free	\$10.00
Fees	\$2.00	2.00
Books	5.00	5.00
	\$7.00	\$17.00

Board and room can be obtained for \$9.00 per week.

OUTLINE OF COURSES

FRESHMAN YEAR 1917-18

(Civil, Mechanical, Electrical and Manufacturing
Production)

First Semester	*Exercises per alternate period	Second Semester	Exercises per alternate period
Mathematics 725 and 727.....	6	Mathematics 728	6
Elementary Mechanics 785..	2	Elementary Mechanics	
Chemistry 741	8	786	2
English 701	1	Chemistry 742	8
Co-ordination 801	1	English 702	1
Shop Practice 803	2	Co-ordination 802	1
Mechanical Drawing 811.....	4	Shop Practice 804	2
Military Drill	2	Descriptive Geometry 812	4
		Military Drill	2

Summer Term

Mathematics 729	6
Descriptive Geometry 813	6
Surveying 809	10

FRESHMAN YEAR 1918-19

First Semester	*Exercises per alternate period	Second Semester	Exercises per alternate period
Mathematics 725 and 727....	6	Mathematics 728	6
Elementary Mechanics 785	2	Elementary Mechanics 786	2
Surveying 809	5	Surveying 810	5
Mechanical Drawing 811	5	Machine Drawing 822	5
Engineering Laboratory 807	6	Engineering Laboratory 808	6
Military Drill	2	Military Drill	2

Summer Term

Mathematics 729	6
Descriptive Geometry 813	6
Surveying	10

*One exercise per alternate period consists of one hour of recitation or lecture, or two hours of drawing or laboratory per week at college.

CIVIL ENGINEERING

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Mathematics 731	6	Mathematics 732	6
French 717	6	French 718	6
Physics 781	4	Physics 782	4
Physics Laboratory 783	4	Physics Laboratory 784....	4
English 703	1	English 704	1
Co-ordination 805	2	Co-ordination 806	2
Graphic Statics 821	2	Machine Drawing 822	2
Military Drill	2	Military Drill	2

Summer Term

Mathematics 733	6
Strength of Materials 837	6
Surveying 810	10

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Strength of Materials 841..	6	Analytic Mechanics 842..	6
Steam Engineering 847	6	English Literature 712	2
English Literature 711	2	French 722	1
French 721	1	Hydraulics 844	4
Roofs and Bridges 851	7	Roofs and Bridges 852	10
Materials Laboratory 817	2	Materials Laboratory 818	2

Summer Term

Railroads 853	22
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JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Economics 737	6	Economics 738	6
Electricity 867	6	Electricity 868	6
Electrical Lab. 869	4	Electrical Lab. 870	4
French 723 or		French 724 or	
German 793	1	German 794	1
English 707	1	English 708	1
Mechanical Lab. 858	1	Mechanical Lab. 859	1
Cement 861	3	Structural Design 872	5
Structural Design 871	2	Military Drill	2
Military Drill	2		

Summer Term

Reinforced Concrete 873	22
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SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
English 709	1	English 710	1
Mathematics 735	4	Mathematics 736	4
French 725 or		French 726 or	
German 795	1	German 796	1
Sewerage 881	4	Water Supply 882	4
Business Training 950	4	Business Training 951	4
Engineering Design 883	4	Engineering Design 884	4
Military Training	2	Military Training	2

*MECHANICAL ENGINEERING

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Mathematics 731	6	Mathematics 732	6
French 717	6	French 718	6
Physics 781	4	Physics 782	4
Physics Laboratory 783	4	Physics Laboratory 784	4
English 703	1	English 704	1
Co-ordination 805	2	Co-ordination 806	2
Graphic Statics 821	2	Machine Drawing 822	2
Military Training	2	Military Training	2

Summer Term

Mathematics 733	6
Strength of Materials 837	6
Materials Laboratory 817	10

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Strength of Materials 841.....	6	Analytic Mechanics 842.....	6
Steam Engineering 847	6	Steam Engineering 848.....	6
English Literature 711	2	English Literature 712	2
French 721	1	French 722	1
Materials Laboratory 817....	2	Hydraulics 844	4
Mechanism 843	4	Mechanical Lab. 858	4
Graphics of Mechanism 845	4	Military Training	2
Military Training	2		

Summer Term

Machine Design 846	22
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*The Electrical Engineering course was started in 1917-18 and is the same as Mechanical Engineering for the first three years. Electrical Engineering students are placed with the Northern Ohio Traction Company for their outside work.

JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Economics 737	6	Economics 738	6
Electricity 867	6	Electricity 868	6
Electrical Lab. 869	4	Electrical Lab. 870	4
French 723	1	French 724	1
English 707	1	English 708	1
Machine Shop Tools 865	5	Metallurgy 743	8
Machine Design 875	4	Military Drill	2
Military Drill	2		

Summer Term

Thermodynamics 874	6
Mechanical Laboratory 858	16

SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
English 709	1	English 710	1
French 725 or German 795	1	French 726 or German 796	1
Mathematics 735	4	Mathematics 736	4
Business Training 950	4	Business Training 951	4
Production Engineering 885	6	Production Engineering 886	6
Thermodynamics 887	2	Heating and Ventilating 888	6
Gas Engineering 889	4	Thesis	4
Mechanical Lab. 858	4	Military Drill	2
Military Drill	2		

MANUFACTURING PRODUCTION

Four of the large rubber companies of this city have united in establishing at the Municipal University about 30 free industrial scholarships for the purpose of training men by the co-operative plan in Manufacturing Production. The company will pay the University tuition and fees of the student, and employ him during his alternate two weeks' periods in the production departments of the factory, the work being carefully arranged so that he will spend some time in every department of the plant. His rate of pay will be \$75 per month for actual time worked and the length of the course will be four years of eleven months each. Students accepted for these scholarships will be selected from the upper third of their high school class, and the selection must be approved by the firm granting the scholarship. The object of the companies in offering this inducement is to attract a few of the most desirable high school graduates each year, and train these men in the practical work of their own organization while the University is giving them a broad college training. Akron students who meet the requirements of these scholarships will be given preference over non-residents. The University course will include the essentials in Engineering and Business Training, together with the usual liberal arts subjects required in these courses. The outline of the course for the first year is given on page 75. Specific subjects to be taken in the other three years will be agreed upon by the Engineering College and the firms providing the scholarships and announced later.

The firms providing these scholarships are:

- The Firestone Tire & Rubber Co.
- The Goodyear Tire & Rubber Co.
- The Miller Rubber Co.
- The B. F. Goodrich Co.

DEPARTMENTS OF INSTRUCTION

The general system of numbering and arrangement is according to the following order:

English	701-712
French	717-724
Mathematics	725-736
Economics and Political Science	737-740
Chemistry	741-770
Biology and Geology	771-779
Physics and Mechanics	780-790
German	790-800
Engineering Subjects	801-900
Manufacturing Production Subjects	901-999

ENGLISH

English Composition is taught by the "laboratory method." Inspection trip, laboratory, and special reports are written under the direction of the English Department and criticized by this department for language and by the Engineering Department for contents. The written work is supplemented by conferences and lectures and continues thruout the five years of the course in order to impress the student with the fact that his language, whether it be in reports, recitations or examinations, is always liable to the criticism of the English Department. The work receives one hour of credit per semester.

In addition to English Composition a two-hour course in English Literature is given thruout the third year.

- 701. English Composition (*Freshman Year, First Semester.*)
(One hour.)
- 702. English Composition (*Freshman Year, Second Semester.*)
(One hour.)
- 703. English Composition (*Sophomore Year, First Semester.*)
(One hour.)
- 704. English Composition (*Sophomore Year, Second Semester.*)
(One hour.)

705. English Composition (*Pre-Junior Year, First Semester.*)
(One hour.)
706. English Composition (*Pre-Junior Year, Second Semester.*)
(One hour.)
707. English Composition (*Junior Year, First Semester.*)
(One hour.)
708. English Composition (*Junior Year, Second Semester.*)
(One hour.)
709. English Composition (*Senior Year, First Semester.*)
(One hour.)
710. English Composition (*Senior Year, Second Semester.*)
(One hour.)
711. English Literature (*Pre-Junior Year, First Semester.*)
(Two hours.)

The object of this course is to acquaint the student with different types of good literature and develop in him a taste for good reading. Much reading is required and still more is recommended.

712. English Literature (*Pre-Junior Year, Second Semester.*)
(Two hours.) A continuation of 711.

FRENCH

French is a required subject for all engineering students.

717. (*Sophomore Year, First Semester.*)
(Six hours.)

Fraser and Squair's French Grammar. Francois and Giroud's Simple French Reader. Practice in pronunciation, dictation and composition.

718. (*Sophomore Year, Second Semester.*)
(Six hours.) A continuation of the work of 717.

In addition to the reader begun in the first semester, the class will read Bowen's First Scientific French Reader.

719. (*Pre-Junior Year, First Semester.*)
(Six hours.)

Reading of French technical books and journals.

720. (*Pre-Junior Year, Second Semester.*)
(Six hours.) Continuation of 719.
721. (*Pre-Junior Year, First Semester.*)
(One hour.) Continuation of 719.
722. (*Pre-Junior Year, Second Semester.*)
(One hour.) Continuation of 719.
723. (*Junior Year, First Semester.*)
(One hour.) Continuation of 719.
724. (*Junior Year, Second Semester.*)
(One hour.) Continuation of 719.
725. (*Senior Year, First Semester.*)
(One hour.) Continuation of 724.
726. (*Senior Year, Second Semester.*)
(One hour.) Continuation of 725.

GERMAN

Senior and Junior students who started in German will continue reading from Hütte in the following courses:

793. (*Junior Year, First Semester.*)
(One hour.)
794. (*Junior Year, Second Semester.*)
(One hour.)
795. (*Senior Year, First Semester.*)
(One hour.)
796. (*Senior Year, Second Semester.*)
(One hour.)

MATHEMATICS

725. *College Algebra.*—(*Freshman Year, First Semester.*)
(Two hours.)

This course aims to give a general review of advanced algebra. The work includes quadratics with graphical representations, variation, binomial theorem, logarithms, complex numbers and progressions.

727. *Plane Trigonometry.*—(*Freshman Year, First Semester.*)
(Four hours.)

The work includes trigonometric equations, solution of plane triangles and inverse functions. Effort is made to acquaint the student with the means of testing the accuracy

of his work and to develop habits of neat arrangement and rough checking in his computations. Numerous applications to practical problems are made.

728. *Plane Analytic Geometry.*—(*Freshman Year, Second Semester.*)
(Six hours.)

The work includes:—The straight-line and general equations of the first degree, polar co-ordinates, transformation of co-ordinates, conic sections and equations of the second degree, tangents, normals, loci, parametric equations, poles and polars, the general equation of the second degree, and a few higher plane curves.

729. *Plane Analytic Geometry.*—(*Freshman Year, Summer Term.*)
(Six hours.) A continuation of 728.

731. *Differential Calculus.*—(*Sophomore Year, First Semester.*)
(Six hours.)

The work includes theory of limits, differentiations, series, expansion of functions, indeterminate forms, maxima and minima of functions of one or more variables, partial derivatives, curvatures, tangents and normals.

732. *Integral Calculus.*—(*Sophomore Year, Second Semester.*)
(Six hours.)

The work includes integration of standard forms, integration of rational fractions, integration by various devices, summations and definite integral, application to surfaces and volumes of revolution.

733. *Integral Calculus.*—(*Sophomore Year, Summer Term.*)
(Six hours.) Continuation of 732.

735. *Engineering Mathematics.*—(*Senior Year, First Semester.*)
(Four hours.)

This course is given during the senior year, and gives a review of the algebra, trigonometry, analytic geometry, calculus and analytic mechanics, showing the logical connection of the several subjects and their connection with engineering problems.

736. *Engineering Mathematics.*—(Senior Year, Second Semester.)
(Four hours.) Continuation of 735.

ECONOMICS

737. *Economics.*—(Junior Year, First Semester.)
(Six hours.)
A consideration of the fundamental concepts of economics; definition of terms, theory of value, production, consumption, distribution, etc.
738. *Economics.*—(Junior Year, Second Semester.)
(Six hours.)
A study of practical economic problems such as wages, interest, rent, currency, banking, taxation, trusts, tariff and socialism.

CHEMISTRY

- *741. (*Freshman Year, First Semester.*)
(Four hours recitation, four periods laboratory.)
A study of the newer theories of chemistry with special attention to their application to commercial problems.
- *742. (*Freshman Year, Second Semester.*)
(Four hours recitation, four periods laboratory.)
A continuation of 741.
During the last half of the semester each student is required to make, and test before the class, at least one salt of each metal.
This course is planned to develop originality in the student rather than cover a large field. He is thrown upon his own resources as much as possible and taught how to attack a problem.
- *743. *Metallurgy.*—(Summer Term.)
(Six hours.)
A review of the properties of metals and ores and the principles used in the present practice of metallurgy.

PHYSICS

785. *Elementary Mechanics.*—(Freshman Year, First Semester.)
(Two hours.)

*Not given in 1918-19.

The force triangle including the resolution and composition of forces. Parallel forces, moments and beam reactions. One recitation and one laboratory period per week.

786. *Elementary Mechanics.*—(*Freshman Year, Second Semester.*)
(Two hours.)
Continuation of 785.

781. *General Physics.*—(*Sophomore Year, First Semester.*)
(Four hours.)

The work includes dynamics, velocity, acceleration, impulse, work and energy, projectiles, mechanics of liquids and gases, the properties of matter and its internal forces, wave motion, general principles of sound and of heat.

783. *General Physics Laboratory.*—(*Sophomore Year, First Semester.*)
(Four periods.)

Experiments involving mechanics, sound and heat.

782. *General Physics.*—(*Sophomore Year, Second Semester.*)
(Four hours.)

The work includes light, electricity and magnetism.

784. *General Physics Laboratory.*—(*Sophomore Year, Second Semester.*)
(Four periods.)

Experiments involving light, magnetism and electricity.

BUSINESS TRAINING

950. *Business Training.*—(*Senior Year, First Semester.*)
(Four hours.)

An elementary course covering the fundamentals of accounting, cost accounting, business law and business organization.

951. *Business Training.*—(*Senior Year, Second Semester.*)
(Four hours.)
See 950.

ENGINEERING

801. *Co-ordination.*—(*Freshman Year, First Semester.*)
(One hour.)

Discussion of questions arising in students' work. Observation sheets, detailed reports and problems.

802. *Co-ordination.*—(*Freshman Year, Second Semester.*)
(One hour.) Continuation of 801.

803. *Shop Practice.*—(*Freshman Year, First Semester.*)
(Two hours.)

An elementary study of the processes, methods and equipment of production, including the work of the foundry, machine shop and forge shop.

804. *Shop Practice.*—(*Freshman Year, Second Semester.*)
(Two hours.) Continuation of 803.

805. *Co-ordination.*—(*Sophomore Year, First Semester.*)
(Two hours.) Continuation of 802.

806. *Co-ordination.*—(*Sophomore Year, Second Semester.*)
(Two hours.) Continuation of 805.

- 807-808. *Engineering Laboratory.*

As a war emergency measure, this course includes the maximum of practice in the operation and maintenance of mechanical and electrical equipment, including furnace and boiler plants, steam and gas engines, compressors, turbines, motors and generators. For practice in pipe fitting, and wiring, the students will make all necessary connections for steam, water, air, gas and electricity. Further laboratory instruction exemplifying the theory underlying the design of such equipment will be given in later years.

809. *Surveying.*—(*First Summer Term.*)
(Ten hours.)

The theory and use of the transit and level. The surveying of areas and computations of the same. Maps and profiles.

810. *Surveying.*—(*Second Summer Term.*)
(Ten hours.) A continuation of 809.

Tests and adjustments of instruments. Topographic Surveying.

811. *Mechanical Drawing.*—(*Freshman Year, First Semester.*)
(Four hours.)

Standard details of structural shapes, bolts, nuts, screws, etc. Free hand lettering and sketching. Elementary descriptive geometry.

812. *Descriptive Geometry*.—(*Freshman Year, Second Semester.*)

(Four hours.)

Projections of lines, intersections of planes, projections of solids with practical applications. Free hand lettering and sketching.

813. *Descriptive Geometry*.—(*Freshman Year, Summer Term.*)

(Six periods.) Continuation of 812.

817-818. *Materials Laboratory*.

Tensile, compressive, transverse and torsional tests of the common kinds of wood, iron and steel. Standard tests of paving brick, rubber and other materials.

821. *Graphic Statics*.—(*Sophomore Year, First Semester.*)

(Four hours.)

The graphical solution of elementary problems in mechanics.

822. *Machine Drawing*.—(*Sophomore Year, Second Semester.*)

(Four hours.)

Detail drawings from measurements of machines.

837. *Strength of Materials*.—(*Sophomore Year, Summer Term.*)

(Six hours.)

Tensile, compressive and shearing stresses. Stress-strain diagrams.

841. *Strength of Materials*.—(*Pre-Junior Year, First Semester.*)

(Six hours.)

Center of gravity, moment of inertia and radius of gyration. Theory and design of beams, columns and shafts.

842. *Analytic Mechanics*.—(*Pre-Junior Year, Second Semester.*)

(Six hours.)

Kinematics, kinetics and dynamics accompanied by numerous problems.

843. *Mechanism*.—(*Pre-Junior Year, First Semester.*)

(Four hours.)

A study of the various means of transmitting and modifying machine motions.

845. *Graphics of Mechanism.*—(Pre-Junior Year, First Semester.)

(Four hours.)

Graphic representation of common methods of transmitting and modifying motion by means of cams, links and toothed wheels.

844. *Hydraulics.*—(Pre-Junior Year, Second Semester.)

(Four hours.)

Flotation, pressures on gates and dams. Theory of the flow of water thru orifices, tubes, pipes and channels. Hydraulic machinery.

846. *Machine Design.*—(Pre-Junior Year, Summer Term.)

(Twenty-two hours.)

Elementary problems in the design of gearing, shafting, bearings, flywheels, cylinders and other machine parts.

847. *Steam Engineering.*—(Pre-Junior Year, First Semester.)

(Six hours.)

Elements and economy of simple and complete steam plants.

848. *Steam Engineering.*—(Pre-Junior Year, Second Semester.)

(Six hours.) A continuation of 847.

851. *Roofs and Bridges.*—(Pre-Junior Year, First Semester.)

(Seven hours.)

Calculation of stresses in framed structures under static and moving loads by both graphic and analytic methods.

852. *Roofs and Bridges.*—(Pre-Junior Year, Second Semester.)

(Ten hours.) A continuation of 851.

853. *Railroads.*—(Pre-Junior Year, Summer Term.)

An intensive course in railroad construction and surveying given eight hours per day, five and one-half days per week.

858-859. *Mechanical Laboratory.*

The standardization of instruments, the testing of boilers, steam engines and gas engines, and special tests.

861. *Cement.*—(*Junior Year, First Semester.*)

(Three hours.)

Theory and manufacture. Standard laboratory tests of cement, mortar and concrete.

865. *Machine Shop Tools.*—(*Junior Year, First Semester.*)

(Five hours.)

The theory and analysis of present accepted practices of cutting metal by lathe and planer tools, milling cutters, twist drills, and abrasive wheels. Advanced methods of machine production. Jigs, fixtures and attachments.

867. *Electricity.*—(*Junior Year, First Semester.*)

(Six hours.)

Theory of Electricity and Magnetism.

This course is mainly a mathematical treatment of the subject. It includes a general treatment of permanent magnets, terrestrial magnetism, electrostatics, capacity, electrothermo electricity, and general electro-magnetic theory.

868. *Electricity.*—(*Junior Year, Second Semester.*)

(Six hours.)

This course is a continuation of course 867. During the second semester a detailed study of theory of meters and direct and alternating current machinery is made in addition to the problem work.

869. *Electrical Laboratory.*—(*Junior Year, First Semester.*)

(Two afternoons.)

This course is designed to supplement and correlate course number 867.

870. *Electrical Laboratory.*—(*Junior Year, Second Semester.*)

(Two afternoons.)

This course is designed to supplement and correlate course number 868.

871. *Structural Design.*—(*Junior Year, First Semester.*)

(Two hours.)

The design of a roof truss, plate girder and pin-connected truss, including the details of the important joints. Contracts, specifications, shop inspection trips.

872. *Structural Design.*—(*Junior Year, Second Semester.*)

(Five hours.) Completion of 871.

873. *Reinforced Concrete.*—(*Junior Year, Summer Term.*)

Recitation, laboratory and design, eight hours per day, five and one-half days per week.

874. *Thermodynamics.*—(*Junior Year, Summer Term.*)
(Six hours.)
Thermodynamics of gases, saturated vapors and superheated steam. Application of thermodynamics to engines, compressors and refrigerating machinery.
875. *Machine Design.*—(*Junior Year, First Semester.*)
(Four hours.)
Complete design of an assigned machine.
881. *Sewerage.*—(*Senior Year, First Semester.*)
(Four hours.)
Text: Folwell's Sewerage. Recitations and design.
882. *Water Supply.*—(*Senior Year, Second Semester.*)
(Four hours.)
Text: Folwell's Water Supply. Recitations and design.
883. *Engineering Design.*—(*Senior Year, First Semester.*)
(Four hours.)
884. *Engineering Design.*—(*Senior Year, Second Semester.*)
(Four hours.)
885. *Production Engineering.*—(*Senior Year, First Semester.*)
(Six hours.)
A study of the principles underlying production management, including motion study and time setting, wage systems, time and stock systems, routing of work and factory lay-outs.
886. *Production Engineering.*—(*Senior Year, Second Semester.*)
(Six hours.) See 885.
887. *Thermodynamics.*—(*Senior Year, First Semester.*)
(Two hours.) A continuation of 874.
888. *Heating and Ventilation.*—(*Senior Year, Second Semester.*)
(Six hours.)
Systems and equipment for heating and ventilating buildings and industrial plants. Exhaust systems.
889. *Gas Engineering.*—(*Senior Year, First Semester.*)
(Four hours.)
A study of designs of modern gas and oil engines. Power, efficiency and losses. Producer gas equipment.

CURTIS SCHOOL OF HOME ECONOMICS

DIRECTOR, SARAH E. STIMMEL, B. S.

GENERAL INFORMATION

The Curtis School of Home Economics was established as a unit of the Municipal University in 1914. It occupies the building known as Curtis Cottage, made possible by gifts from the late William Pitt Curtis, of Wadsworth, Ohio, and from many citizens of Akron. Besides the necessary laboratories for work in Home Economics, the building is equipped with housekeeping apartments and cafeteria.

Admission

Candidates for unconditional admission must present at least 15 units of secondary school work. No student will be admitted with entrance conditions amounting to more than one unit. Such deficiency must be made up during the freshman year. For general entrance requirements to the University see page 22.

Entrance Requirements

English	3	units
Mathematics	2½	units
*Foreign Language	4	units
†Physics	1	unit
Elective	4½	units

*Two units at least must be of one language. Not less than a full unit in the beginning of any language will be accepted toward this requirement.

†A year of Physics at entrance or in the University is required for a degree.

Course of Study

The course in Home Economics requires four years of regular university work and is planned to meet the practical needs of women students. It combines a thoro training in those branches of science essential to intelligent home management with the broadest possible cultural education and forms a basis for those who wish to specialize in Home Economics or other lines of work. Especial attention will be given to providing training for those who may wish to become teachers of the subject.

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OUTLINE OF REQUIRED STUDIES

First Year

First Semester.	Term hrs.	Second Semester.	Term hrs.
- Chemistry 353	4	- Chemistry 354	4
- English 51	3	- English 52	3
- *Modern Language	3 or 4	- *Modern Language	3 or 4
- Biology 401	4	- Biology 402	4
- Physical Training	1	- Designing 602	1
- Hygiene 415	1		
			15 or 16
	16 or 17		

Second Year

- Organic Chemistry 621	3	- Organic Chemistry 622	3
†Physiology 409	4	†Physiology 410	4
- Foods 605	4	- Foods 606	4
- *Modern Language	3	- *Modern Language	3
- Mechanical Drawing 625	1½	House Planning 626	1½
- Textiles 603	2	- Textiles 604	2
	17½		17½

Third Year

- Household Chemistry 623	3	- Household Chemistry 624	3
- †History	3	- †History	3
Bacteriology 627	2	Bacteriology 628	2
Art 607	2	Sanitation 612	3
- Dress 609	3	Art 608	2
- English 65	3	- English 66	3
	16		16

Fourth Year

Dietetics 613	4	Seminar 618	2
- Economics 251	3	Sociology 252	3
- The House 615	3	- The House 616	3
Teachers' Course 619	3	Teachers' Course 620	3
	13		11

Elective studies must be chosen sufficient in number to complete a total of 128 term hours.

*Modern language must consist of two years in one language.

†Offered 1917-1918 and alternate years.

‡American History is required unless student has had sufficient to satisfy requirements. If so, History of Western Europe may be chosen.

Degrees

For the completion of the four-year course in Home Economics (128 term hours required for graduation) the degree of Bachelor of Science in Home Economics will be conferred. By means of a five-year combination course degrees may be gained from both the College of Liberal Arts and the School of Home Economics, but candidates for such combination course must announce their intention at the end of the junior year.

Fees

The regular incidental and student activity fee of \$10.00 per semester will be charged to all students. The tuition in this school is free to all residents of Akron. The tuition for non-residents of Akron is \$40.00 per semester. A graduation fee of five dollars is charged all graduates.

Laboratory Fees

Chemistry 353, 354, per semester	\$3.00
Chemistry, all other courses, per semester	4.00
Chemistry, deposit for breakage in all chemistry courses	5.00

The unused portion of this breakage deposit will be returned at the end of the semester.

Biology 401, 402, 409, 410	\$2.50
Bacteriology, 627, 628, per semester	4.00
Bacteriology, deposit for breakage	5.00
Foods, per semester	7.50
Dietetics, per semester	7.50

NOTE.—Students provide their own materials in the following courses: Designing, Textiles, Mechanical Drawing and House Planning, Art, Dress, and Seminar.

SUBJECTS OF INSTRUCTION

All courses numbered over 600 are offered primarily only for students in the school of Home Economics and may be elected by students in the College of Liberal Arts only under the restrictions imposed by that College. For description of courses mentioned only by number, see pages 44-66 of general catalog.

HOME ECONOMICS

PROFESSOR STIMMEL

MISS BAIR

603. *Textiles.—(First Semester.)*
Lecture, Th., 1:00; Laboratory, Th., 2:00-4:00.
(Two term hours.)

Concurrent, Designing. A study of fibres and fabrics. Laboratory work includes the proper selection of materials, the making of suitable designs, the making of wearing apparel, the judging of cloth and the comparison of laboratory and commercially prepared garments.

604. *Textiles.—(Second Semester.)*
Continuation of 603.

605. *Foods.—(First Semester.)*
Lecture hours, Tu., 9:20; Th., 10:15; Laboratory,
W., F., 1:00-3:00.
(Four term hours.)

Prerequisite, Chemistry 353-4. The selection and preparation of foods. Their ordinary occurrence; their nutritive values and their comparative costs. The laboratory work, the basis for certain methods of food preparation, is correlated with the lecture work.

606. *Foods.—(Second Semester.)*
Continuation of 605.

609. *Dress.—(First Semester.)*
M., 1:00-5:00; W., 11:10.
(Three term hours.)

Prerequisite, Textiles 603-4; concurrent, Art 607. The making of a simple unlined dress. Drafting and modification of pattern; selection and combination of suitable materials. A study of dress from the historical, hygienic and economical standpoints.

612. *Sanitation.—(Second Semester.)*
M., W., F., 11:10.
(Three term hours.)

Prerequisite or concurrent, Bacteriology. Principles underlying the situation, construction, sanitation, ventilation, lighting, heating and plumbing of the house. First aid to the injured and home nursing. Personal hygiene.

613. *Dietetics.*—(First Semester.)

M., F., 11:10. Laboratory, Tu., Th., 1:00-3:00.
(Four term hours.)

Prerequisites, Foods, 605-6. Physiology 407-8, Household Chemistry 623-4. A study of the chemical, physical and physiological value of the nutrients. Dietary standards, infant and invalid cookery.

615. *The House.*—(First Semester.)

M., W., F., 10:15.
(Three term hours.)

Prerequisite, Art 607-8, Economics 251, Sociology 252, Home Economics 605-6, Home Economics 603-4, Home Economics 625-6. The care and management of the home in relation to its purpose and its arrangement and decoration from a practical and attractive standpoint. Laboratory work in practise apartment in Curtis Cottage.

616. *The House.*—(Second Semester.)

A continuation of 615.

619. *Teachers' Course.*—(First Semester)

Tu., 10:15; Th., 11:10.
(Three term hours.)

Methods of presenting foods and textiles. Planning courses of study and practice teaching. Prerequisite, senior standing in Home Economics.

620. *Teachers' Course.*—(Second Semester.)

Continuation of 619.

618. *Seminar.*—(Second Semester.)

(Two term hours.)
Open only to seniors.

625. *Mechanical Drawing.*—(First Semester.)

M., 1:00-4:00.
(One and one-half term hours.)

626. *House Planning.*—(Second Semester.)

M., 1:00-4:00.
(One and one-half term hours.)
Prerequisite, Mechanical Drawing 625.

602. *Designing.*—(Second Semester.)

Wed., 3:00-5:00.
(One term hour.)

To develop a taste for harmony in color, line and space. Work done in pencil, pen, charcoal and water color.

607. *Art.—(First Semester.)*
 Tu., 3:00-5:00; F., 1:00-3:00.
 (Two term hours.)

Prerequisite, Designing. A continuation of Designing with advanced problems in color and line.

608. *Art.—(Second Semester.)*
 Tu., 3:00-5:00; F., 1:00-3:00.
 (Two term hours.)

Continuation of 607.

629. *Conservation Course.—(First Semester.)*
 Tu., 10:15.
 (One term hour.)

The work will consist of lectures and demonstrations with some recitations.

To acquaint students with the world situation, to prepare for service those who complete the course and wish to do field work.

630. *Conservation Course.—(Second Semester.)*
 Tu., 10:15.
 (One term hour.)

A repetition of 629. Open to all students.

PHYSICAL TRAINING

The regular work in physical training for women will begin the first of December and will continue for three months.

415. *Hygiene.—(First Semester.)*
 W., 3:00-4:00.
 (One term hour.)

Freshmen students in Home Economics are also required to attend a course of lectures on hygiene, particularly adapted to the needs of young college women, given by Dr. Plowman.

ENGLISH

Courses: 51, 52, 65, 66.

GERMAN

Students who have had no German will enter 101; those with one year of German are advised to do the same. Students with two years of German will enter 103—with three or four years, 131. Courses: 101, 102, 103, 104, 105, 106, 131, 132.

FRENCH

Courses: 151, 152, 153, 154.

SPANISH

Courses: 171, 172, 173, 174.

ECONOMICS AND SOCIOLOGY

Courses: 251, 252.

HISTORY

Courses: 277, 278, 275, 276.

CHEMISTRY

Courses: 351, 352, 353, 354.

621. *Organic Chemistry.*—(*First Half-Year.*)
Five hours per week. Tu., 10:15, and Th., 11:10;
Tu., 3:00-5:00.
(Three term hours.)

The course is designed to give a thoro knowledge of the principal classes of organic compounds and their most important derivatives. The laboratory practice consists of the preparation of typical compounds.

Prerequisite. One year of general chemistry.

622. *Organic Chemistry.*—(*Second Half-Year.*)
Continuation of 621.
623. *Household Chemistry.*—(*First Semester.*)
Six hours per week: Th., 8:25; Tu., 1:00-3:00; Th.,
3:00-5:00.
(Three term hours.)
- This course includes the chemistry of foods and testing for adulterations; also the chemistry of cooking and cleaning. This course is open to students who have completed Course 622.
624. *Household Chemistry.*—(*Second Semester.*)
Continuation of 623.

BIOLOGY

Courses: 401, 402, 409, 410.

BACTERIOLOGY

ASSISTANT-PROFESSOR HARDGROVE

627. *Bacteriology.—(First Semester.)*
Tu., 9:20-11:10; W., 1:00-4:00.
(Two term hours.)

An elementary course in Bacteriology consisting of lecture and laboratory work, designed particularly for third year Home Economics students. Others will be admitted only on permission of instructor.

(In case of lecture Tuesday, period will be 10:15 to 11:10.)

628. *Bacteriology.—(Second Semester.)*
Continuation of 627.

EVENING CLASSES

1918-1919

The University will offer during the college year 1918-19 a number of courses for the especial benefit of teachers, employed persons, and citizens in general who may wish to enter the work. Only such courses as are elected by eight or more persons will be offered. These courses are, as far as possible, of college grade. They are divided into two classes.

Class A. Study courses, for which college credit is given to those who successfully complete the requirements.

Class B. Non-study courses, where the instruction is mainly given by lecture work and for which no college credit is given.

ADMISSION

Class A courses are open :

1. To all persons who have completed the course of a first grade high school.
2. To all other persons over 21 years of age, subject to the approval of the instructor in charge as to ability and preparation. Those working for an eventual college degree must complete the regular college entrance requirements before they can be considered candidates for a degree.

Class B courses are open to all persons who care to attend.

REGISTRATION

Registration will take place on the following days :

For the first Semester :

Saturday, September 14, 1918, 2:00 to 5:00 and 7:00 to 8:30 p. m. To all registering after September 14, a late-registration fee will be charged. (See statement under Fees.) **No registrations for entry to any class will be allowed after the second session of the class.**

For the second Semester :

Saturday, February 1, 1919, 2:00 to 5:00, and 7:00 to 8:30 p. m. To all registering after February 1 a late-registration fee will be charged. (See statement under Fees.)

No registrations for entry to any class will be allowed after the second session of the class.

Class work for the first semester will begin Wednesday, September 18, 1918, and will close on January 31, 1919.

Class work for the second semester will begin Wednesday, February 5, 1919, and will close on June 13, 1919.

CREDIT

College credit will be given in Class A courses on the basis of one credit hour for the successful completion of a one hour per week course for one semester.

FEES

Incidental and Tuition Fees

	*Incidental Fee (to all)	*Tuition to non- residents
For 1 or 2 hours (weekly) per semester ...	\$3.00	\$ 5.00
For 3 hours, per semester	4.00	7.50
For 4 hours, per semester	5.00	10.00
For 5 hours, per semester	6.00	12.50
For 6 hours, per semester	7.00	15.00

Late Registration Fee

All persons registering for work after the specified time of registration will be charged a fee of \$1.00.

Breakage Deposit Fee

From each student taking a chemistry course a deposit of \$3.00 per semester is required.

No tuition or incidental fees are refunded. In case of absence on account of protracted sickness a proportionate credit may be given on a subsequent course.

All fees are payable at the college office before entering classes.

All inquiries should be addressed to Prof. H. E. Simmons, Chairman of Committee on Evening Courses.

*Only the incidental fee will be charged to residents of Akron, and to teachers in Summit Co. Non-residents will pay both incidental and tuition fees.

COURSES FOR 1918-1919

CLASS A COURSES

ROMANCE LANGUAGES

French

PROFESSOR HITCHCOCK

1801. *First Year French.—(First Semester.)*
Grammar, reading, simple conversation. Monday,
6:45-8:45.
(Two credit hours.)
1802. *First Year French.—(Second Semester.)*
This course is a continuation of the first semester's work
and will consist mainly of selected readings, dictation, memo-
rizing and conversation. Monday, 6:45-8:45.
(Two credit hours.)
1803. *Second Year French.—(First Semester.)*
Open only to those who have had First Year French here
or elsewhere. Grammar and composition work continued,
with reading of modern works. Wednesday, 6:45-8:45.
(Two credit hours.)
1804. *Second Year French.—(Second Semester.)*
Continuation of the work of the first semester. Wednes-
day, 6:45-8:45.
(Two credit hours.)

Spanish

DR. SHAPIRO

1805. *First Year Spanish.—(First Semester.)*
Grammar, reading, simple conversation. Monday, 6:45-
8:45.
(Two credit hours.)
1806. *First Year Spanish.—(Second Semester.)*
This course is a continuation of the first semester's work
and will consist mainly of selected readings, dictation,
composition and conversation. Monday, 6:45-8:45.
(Two credit hours.)
1807. *Second Year Spanish.—(First Semester.)*
Open only to those who have had First Year Spanish or
its equivalent. Grammar and composition work continued.
Selected texts for reading. Wednesday, 6:45-8:45.
(Two credit hours.)

1808. *Second Year Spanish.—(Second Semester.)*

Continuation of the work of the first semester. Composition, conversation, dictation, anecdotes, Spanish daily life, commercial Spanish and correspondence. Especial emphasis will be placed upon the commercial side of the language. Wednesday, 6:45-8:45.

(Two credit hours.)

GERMAN

PROFESSOR BULGER

1809. *First Year German.—(First Semester.)*

Grammar, reading, simple conversation. Monday, 6:45-8:45.

(Two credit hours.)

1810. *First Year German.—(Second Semester.)*

This course is a continuation of the first semester's work and will consist mainly of selected readings, dictation, memorizing, and conversation. Monday, 6:45-8:45.

(Two credit hours.)

ENGLISH

1812. *Business English.—(Second Semester.)*

This course is designed to give students practice in business correspondence. In all writing careful attention is given to accuracy of form, terseness of expression, and clearness of thought. Spelling, punctuation, and grammatical sentence structure receive constant drill. A large number of written exercises supplements the study of the text. Tuesday, 6:45-8:45.

ASSISTANT-PROFESSOR STURTEVANT.

(Two credit hours.)

1813. *Introduction to Poetry.—(First Semester.)*

A study of the different types of poetry. Recitations and lectures. Much illustrative reading required. Tuesday, 6:45-8:45.

DEAN SPANTON.

(Two credit hours.)

EXPRESSION

MISS MCEBRIGHT

1814. *Public Speaking and Dramatic Work.—(Second Semester.)*

Fundamental principles, voice technique, tone placing, tone building, enunciation, literary analysis, gestures, evolution of expression, vocal and physical. Wednesday, 6:45-8:45.

(Two credit hours.)

SOCIOLOGY

PROFESSOR O. E. OLIN

1816. *Sociology.*—(Second Semester.)

This course will consist of lectures on the principles of sociology, the conditions of social progress, and the problems of housing and health, poverty, crime, and social waste. Thursday, 6:45-8:45.

(Two credit hours.)

BUSINESS LAW AND ADMINISTRATION

1817. *Business Law.*—(First Semester.)

This course includes the laws governing ordinary contracts, notes, mortgages, deeds, partnerships and corporations. Thursday, 6:45-8:45.

(Two credit hours.)

1818. *Business Administration.*—(Second Semester.)

This course includes elementary accounting, cost-keeping, auditing, money, credit and banking investments. Thursday, 6:45-8:45.

(Two credit hours.)

GREEK SCULPTURE

PROFESSOR ROCKWELL

1819. *Introductory Course on Greek Sculpture.*—(First Semester.)

The various schools of Greek Sculpture will be treated in their historic relations, and will be illustrated by selected works of sculpture. Some of the fundamental principles of plastic art will be set forth. One book of collateral reading will be required, and there will be written quizzes from time to time. The course will be amply illustrated by lantern slides. Wednesday, 6:45-8:45.

(Two credit hours.)

CHEMISTRY

PROFESSOR SIMMONS

1823-24. *General Inorganic Chemistry.*—(Both Semesters.)

A study of General Chemistry for those who are beginning or those who may have had a year of Chemistry in high school. Tuesday and Thursday, 6:45-8:45.

(Three credit hours each semester.)

1825-26. *Qualitative Analysis.*—(Both Semesters.)

For those who have completed Courses 1823-24 or the equivalent. Tuesday and Thursday, 6:45-8:45.

(Two credit hours each semester.)

1827-28. *Quantitative Analysis.*—(Both Semesters.)

For those who have completed Courses 1825-26 or the equivalent. Tuesday and Thursday, 6:45-8:45.

(Two credit hours each semester.)

HYGIENE

PROFESSOR PLOWMAN

1829. *Hygiene for Women.*—(First Semester.)

The Department of Biology offers for the year, two courses in Hygiene. Topics for consideration are: nutritional physiology, the physiology of exercise, natural and acquired immunity to disease, sex health, social hygiene, eugenics, euthenics, and human conservation. Lectures and class discussions will be kept as free as possible from unnecessary technicalities, but a standard of absolute scientific accuracy will be insisted upon. The purpose of the study is to bring out clearly and pointedly the vital facts regarding personal health.

Text-book: "How to Live," by Fisher and Fisk, together with selected reference reading in standard works on hygiene.

The course for the first semester is open only to women. Monday, 6:45-8:45.

(Two credit hours.)

1830. *Hygiene for Men.*—(Second Semester.)

This course is of the same general nature as the preceding course, except that it is open only to men. Monday, 6:45-8:45.

(Two credit hours.)

MATHEMATICS AND ENGINEERING

1831. *College Algebra.*—(First Semester.)

The work will begin with the theory of exponents, and will include quadratic equations, simultaneous quadratics, progression, variation and proportion, the binomial theorem, logarithms and exponential equations.

Prerequisite: high school algebra. Wednesday, 6:45-8:45. MR. EGBERT.

(Two credit hours.)

1832. *Plane Trigonometry.*—(Second Semester.)

The work includes trigonometric functions of an angle in any quadrant, solution of plane and oblique triangles, trigonometric equations, identities and inverse functions. Wednesday, 6:45-8:45. MR. EGBERT.

(Two credit hours.)

1833. *Gas Engines.*—(First Semester.)

A detailed study of the essential parts of oil, gas and gasoline engines, their efficiency and applications. Especial attention will be given to the various types of auto-engines. Monday, 6:45-8:45. PROFESSOR ROBINSON.

(Two credit hours.)

1835. *Graphic Statics.*—(First Semester.)

The computation of stresses in roof and bridge trusses by graphical (drawing) methods. No knowledge of algebra or trigonometry is required. Monday 6:45-8:45.

(One credit hour.)

DEAN AYER.

1836. *Static Mechanics.*—(Second Semester.)

The computation of stresses in roofs and bridges by analytical methods. The problems will be the same ones that were computed by graphical methods in the first semester. Monday, 6:45-8:45. DEAN AYER.

(One credit hour.)

HOME ECONOMICS

PROFESSOR STIMMEL

1837. *Foods.*—(First Semester.)

A study of foods, and problems in their preparation. Monday, 6:45-8:45.

(One credit hour.)

1838. *Sewing.*—(Second Semester.)

A study of clothing and the making of garments. Monday, 6:45-8:45.

(One credit hour.)

EVENING CLASSES

CLASS B COURSES

These are lecture courses in which no study is required and no college credit given:

First Semester

B1851. *Current Events and Related Topics.*

Tuesday, 7:45-8:45. (Begins Sept. 24.)

DEAN ELIZABETH A. THOMPSON.

B1853. *Psychology.*

Foundations of psychology: psychology and knowledge: psychology and vocation: psychology and business: psychology and life.

Thursday, 7:45-8:45. (Begins Sept. 19.)

PROFESSOR O. E. OLIN

Second Semester

B1852. *Household Science.*

A. Problems in Household Management.

1. The Daily Routine.
2. The Household Budget.
3. Equipment of the Home.
4. Interior Decoration.
5. Clothing.

B. Food Discussions.

1. Planning of Meals I.
2. Planning of Meals II.
3. Marketing.
4. Food for Children.
5. Special Problems in Preparation of Foods.

C. Sanitation of the Home.

1. The Construction and Location of the House.
2. The Care of the House.
3. Sanitation and Personal Hygiene.
4. The Mother.
5. Care of Children.

Tuesday, 7:45-8:45. (Begins Feb. 11.)

MISS AMY PARKER

City Home Demonstration Agent

B1854. *The Modern European Drama.*

Development of the drama from the earliest times; some phases of the modern continental drama.

Thursday, 7:45-8:45. (Begins Feb. 6.)

PROFESSOR BULGER

PHYSICAL EDUCATION

DIRECTOR SEFTON

(November to March.)

Night school students desiring to take gymnasium work one night a week may do so by conferring with the Physical Director.

The work will consist of Basketball, Gymnastics and other exercises that can be practiced indoors.

The night will be scheduled according to the convenience of the students.

No credit will be given.

SCHEDULE OF CLASSES

1918-1919

First Semester

Day	Hours	Subject
Monday	6:45-8:45	First Year French 1801.
Monday	6:45-8:45	First Year Spanish 1805.
Monday	6:45-8:45	First Year German 1809.
Monday	6:45-8:45	Hygiene for Women 1829.
Monday	6:45-8:45	Gas Engines 1833.
Monday	6:45-8:45	Graphic Statics 1835.
Monday	6:45-8:45	Foods 1837.
Tuesday	6:45-8:45	Introduction to Poetry 1813.
Tuesday	6:45-8:45	General Inorganic Chemistry 1823.
Tuesday	6:45-8:45	Qualitative Analysis 1825.
Tuesday	6:45-8:45	Quantitative Analysis 1827.
Tuesday	7:45-8:45	Current Events B1851.
Wednesday	6:45-8:45	Second Year French 1803.
Wednesday	6:45-8:45	Second Year Spanish 1807.
Wednesday	6:45-8:45	Greek Sculpture 1819.
Wednesday	6:45-8:45	College Algebra 1831.
Thursday	6:45-8:45	Business Law 1817.
Thursday	6:45-8:45	General Inorganic Chemistry 1823.
Thursday	6:45-8:45	Qualitative Analysis 1825.
Thursday	6:45-8:45	Quantitative Analysis 1827.
Thursday	7:45-8:45	Psychology B1853.

SCHEDULE OF CLASSES

1918-1919

Second Semester

Day	Hours	Subject
Monday	6:45-8:45	First Year French 1802.
Monday	6:45-8:45	First Year Spanish 1806.
Monday	6:45-8:45	First Year German 1810.
Monday	6:45-8:45	Hygiene for Men 1830.
Monday	6:45-8:45	Static Mechanics 1836.
Monday	6:45-8:45	Sewing 1838.
Tuesday	6:45-8:45	Business English 1812.
Tuesday	6:45-8:45	General Inorganic Chemistry 1824.
Tuesday	6:45-8:45	Qualitative Analysis 1826.
Tuesday	6:45-8:45	Quantitative Analysis 1828.
Tuesday	7:45-8:45	Household Science B1852.
Wednesday	6:45-8:45	Second Year French 1804.
Wednesday	6:45-8:45	Second Year Spanish 1808.
Wednesday	6:45-8:45	Expression 1814.
Wednesday	6:45-8:45	Trigonometry 1832.
Thursday	6:45-8:45	Sociology 1816.
Thursday	6:45-8:45	Business Administration 1818.
Thursday	6:45-8:45	General Inorganic Chemistry 1824.
Thursday	6:45-8:45	Qualitative Analysis 1826.
Thursday	6:45-8:45	Quantitative Analysis 1828.
Thursday	7:45-8:45	European Drama B1854.

THE UNIVERSITY LECTURES

1917-1918

THE Municipal University desires to offer to the people of the city the opportunity annually of hearing, free of charge, certain talks and lectures by members of the University Faculty—not in the class room, nor even in the college buildings, but rather at such times and places as may be best suited to the needs of the citizens. This plan has been adopted in response to numerous calls received for lectures on various subjects, and represents an effort on the part of the University to serve the community to the best advantage by systematizing the work thus offered.

For the season of 1917-18 a list of lectures has been prepared from which any lecture or lectures may be chosen. They will be given before any society or organization or responsible body of citizens who may desire to hear them. The conditions are as follows:

1. The lectures are to be given at dates to be mutually agreed upon with the Chairman of the Lecture Committee.

2. The Chairman of the Lecture Committee must be notified by the organization at least two weeks before the time of giving the lecture.

3. The organization requesting the lectures shall provide a suitable place for holding them and no admission fee shall be charged.

1. The Evolution of Education.

2. The Municipal University and the City.

PRESIDENT P. R. KOLBE

3. The Value of a College Education.

DEAN F. E. AYER

4. What the Chemist of the Future Will Do.

5. Relation of Oxygen to Life.

PROFESSOR H. E. SIMMONS

6. What's the Trump?

7. The Civic Consciousness.
PROFESSOR O. E. OLIN
8. Mark Twain.
PROFESSOR C. L. BULGER
9. American War Poetry.
10. Nature Poetry in America.
PROFESSOR F. D. STURTEVANT
11. A Modern Roman Gentleman.
12. Painting and Relief in Greek Art (illustrated).
PROFESSOR J. C. ROCKWELL
13. The business of Being a Housekeeper.
PROFESSOR SARAH E. STIMMEL
14. A Historical Subject.
DEAN E. A. THOMPSON

All requests for these lectures should be addressed to Dr.
J. C. Rockwell, Chairman University Lecture Committee,
Municipal University, City.

COMBINATION COURSES

1. AT THE UNIVERSITY OF AKRON

The Arts-Home Economics Combination Course

A combination may be made between the Arts and Home Economics Courses by which degrees may be obtained from both schools in a minimum period of five years. This may best be accomplished by spending four years in the Curtis School of Home Economics and an additional year in the College of Liberal Arts. If such combination course be desired the elective work in the fourth year must be shaped toward the fulfillment of the major and minor requirements in the College of Liberal Arts.

An arrangement is also possible by which the student may spend three years in the College of Liberal Arts and two years in the Curtis School of Home Economics, receiving both degrees. Those planning this combination should consult the Classification Committee at the beginning of the sophomore year in order that the subjects to be taken may be definitely determined, according to the major subject chosen.

2. WITH THE OHIO STATE UNIVERSITY

By special arrangement concluded with the Ohio State University, the University of Akron is enabled to offer combination courses in its own College of Liberal Arts with certain professional schools of the State University. By means of such a course, the student is enabled to shorten by one year the six to eight year period otherwise necessary for the acquirement of both college and professional degrees and training. Generally speaking, the plan contemplates an attendance of three years at the University of Akron with an additional two or three years (depending on the subject chosen) at the State University. During the fourth year of his course (i. e., the first year at the State University) the student is counted as a senior in absentia by the University of Akron and at the end of this year returns to receive his Bachelor's degree with his class.

The following combinations have been arranged:

THE ARTS-LAW COMBINATION COURSE

This course comprises a total of six years, three years at the Municipal University of Akron and three years at the Law School of the Ohio State University. At the end of four years the degree of Bachelor of Arts is conferred by the University of Akron for the satisfactory completion of 128 term hours of work. At the end of six years the student may become a candidate for the degree of Bachelor of Laws at the Ohio State University.

Requirements in Buchtel College of Liberal Arts

1. No student is eligible for the combined Arts-Law Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours' credit in Buchtel College. In order to receive the Bachelor's Degree from the University of Akron at the end of the fourth year, the student must complete 101 term hours of work in Buchtel College before entering the Ohio State University.

2. No student shall be eligible for a degree from Buchtel College of the University of Akron in the combined Arts-Law Course who has not received sufficient credit at the State University to complete a total of 128 term hours of work.

3. A major must be chosen in Buchtel College of Liberal Arts in a course leading to the degree of Bachelor of Arts.

4. All of the major and minor requirements in the course chosen must be completed at the University of Akron.

5. The Faculty of Buchtel College reserve the right to refuse to recommend for the combined course any candidate who has, in their opinion, not maintained a standard of *good scholarship*.

THE ARTS-AGRICULTURE COMBINATION COURSE

Total time required, five years, three of which are to be spent at the University of Akron and two at the Ohio State University. At the end of four years' time, the degree of Bachelor of Science will be conferred by the University of Akron and at the end of five years the degree of Bachelor of Science in Agriculture by the Ohio State University.

General Requirements in Buchtel College of Liberal Arts

1. No student is eligible for the Combined Arts-Agriculture Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours' credit in Buchtel College.
2. No student shall be eligible for a degree from Buchtel College of the University of Akron in the combined Arts-Agriculture Course who has not received sufficient credit at the Ohio State University to complete a total of 128 term hours of work.
3. The Faculty of Buchtel College reserve the right to refuse to recommend for the combined course any candidate who has, in their opinion, not maintained a standard of *good scholarship*.

Combination Arts-Agriculture Course

Three years at the University of Akron

First Year

First Semester		Second Semester	
English 51	3	English 52	3
Mod. Lang.	4	Mod. Lang.	4
Chem. 351 or 353	4	Chem. 353 or 354	4
Hygiene	1	Current Events	1
Mathematics 301	4	Mathematics 302	4
	16		16

Second Year

First Semester		Second Semester	
English 53	2	English 54	2
Biology 401	4	Biology 402	4
Mod. Lang.	3 or 4	Mod. Lang.	3 or 4
History 275 or 277	3	History 276 or 278	3
Chem. 365	3	Chem. 366	3
	15 or 16		15 or 16

Third Year

First Semester		Second Semester	
Polit. Economy 251	3	Sociology 252	3
Physics 341	5	Physics 342	5
Vascular Plants 405	4	Embryology 404	4
Geology 417	3	Astronomy 320	3
	15		15

In addition enough elective work to complete at least 96 hours.

Two years at the Ohio State University

Fourth Year

Animal Husbandry	4
Agricultural Chemistry	4
Rural Economics	4
Agricultural Engin. }	4
Farm Crops	

Choice of any two of these the fourth year. The remaining two the fifth year.

In addition to the two selected, at least ten hours to be elected with approval of the Adviser.

Fifth Year

Two subjects of four required in senior year—8 hours.

Ten hours a week thruout the year, from any of the courses related to the previous year's work in the College of Agriculture.

*3. WITH WESTERN RESERVE MEDICAL SCHOOL**

By arrangement concluded on February 2, 1914, a combination course has been established between the University of Akron and Western Reserve Medical School.

The completion of this course requires seven years, the first three of which are to be spent at the University of Akron and the last four at Western Reserve University. At the end of four years, the degree of Bachelor of Science will be conferred by the University of Akron, at the end of seven years, the degree of Doctor of Medicine will be given by Western Reserve University.

**This course is here detailed as typical of a combination possible with the large majority of medical schools.*

General Requirements in Buchtel College of Liberal Arts

1. No student is eligible for the Combined Arts-Medicine Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours' credit in Buchtel College.
2. No student shall be eligible for a degree from Buchtel College of Liberal Arts in the combined Arts-Medicine Course who has not received sufficient credit at the Western Reserve University to complete a total of 128 term hours of work.
3. The Faculty of Buchtel College reserve the right to refuse to recommend for the combined course any candidate who has, in their opinion, not maintained a standard of *good scholarship*.

Subject Requirements in Buchtel College of Liberal Arts

1. A major must be chosen in Buchtel College leading to the degree of Bachelor of Science.
2. All of the major and minor requirements in the course chosen must be completed at the University of Akron.

(The following are requirements of subjects to be taken at Buchtel necessary for entrance to the Medical School.)

(A) Chemistry: The equivalent of at least one year of collegiate work of a value of not less than 8 term hours, of which at least 4 term hours shall be laboratory work, and the total instruction shall be not less than 192 hours.

(B) Physics: The equivalent of at least one year of collegiate work of a value of not less than 8 term hours, of which at least 2 term hours shall be laboratory, and the total instruction shall be not less than 160 hours. The fact that high school physics is presented will in no way diminish the requirement of collegiate physics.

(C) Biology; Zoology and Botany: The equivalent of at least one year of collegiate work of a value of not less

than 8 term hours, of which at least 4 term hours shall be laboratory work, and the total instruction shall be not less than 192 hours.

(D) German or French: A total of not less than 8 term hours, all in one of these subjects. One unit of high school work may be counted as 2 term hours of this requirement, but at least 6 term hours shall be collegiate work.

All of the requirements indicated above may be fulfilled in a space of three years. The following plan is suggested:

First Year: Regular Freshman Scientific Course.

Second Year: Zoology and Botany, 8 hours, Physics with Lab., 10 hours, German or French sufficient to make with freshman work a total of at least 8 term hours.

(This completes the requirements made by the Medical School. The remainder of time should be given to the completion of the major and minor requirements of Buchtel College.)

4. COMBINATION COURSES WITH OTHER SCHOOLS

With Medical Schools

The University of Akron will enter into combination courses with any of the Medical Schools of the highest class, as fixed by the standards of the American Medical Association.

With Other Professional and with Technical Schools

The University of Akron is willing to give the opportunity for combination courses with any approved technical or professional school making graduation from a first-grade high school a prerequisite for entrance (except medical schools, see above). The approval of such courses rests with the committee on classification. In making such combinations, the University of Akron will insist on the fulfillment of the general requirements of three years' residence

at Akron, the completion of 96 term hours there and of a total of 128 term hours for graduation—also of the completion of all required majors and minors.

Students are warned against haphazard work in Buchtel College of Liberal Arts with the vague idea that a course chosen at random can be combined with any professional school to which their inclination may later direct them. The choice of school with which the combination is desired should never be delayed beyond the close of the freshman year. The committee on classification is at all times ready to be of assistance to students in making combinations with reputable professional and technical schools.

TRAINING COURSE FOR TEACHERS

In harmony with action taken in December, 1915, by the Board of Education of the City of Akron and the Board of Directors of the Municipal University of Akron, the University and the Perkins Normal School undertake jointly the academic and professional preparation of teachers in accordance with the following regulations:

FOUR YEAR COMBINATION COURSE

Graduates of this course will be accepted as Elementary School Teachers but not as High School Teachers in the Akron schools. They are, however, entitled to a provisional state high school certificate, giving them the legal right to teach in any high school in the state of Ohio.

Students who have completed three years of work (103 hours) in a satisfactory manner, at the University shall be allowed to enter the Perkins Normal School with the prospect of completing the course there in one year.

Such students shall elect at the University adequate courses in United States History and Government, Sociology, Psychology and Ethics.

During the three years at the University the student shall complete a minimum of 103 term hours of work. On satisfactory completion of the fourth year's work at the Perkins Normal School the degree of Bachelor of Science in Education will be given by the University.

FIVE YEAR COMBINATION COURSE

A five year combination course will be offered for those desiring to become high school teachers in the Akron School system. The conditions are as follows:

The candidate for the combination five-year course shall spend the first four years at the University. During this period the election of a maximum of ten semester hours at the Perkins Normal School shall be allowed and these hours shall be credited toward the college degree.

The student shall pursue as a major in the college course that subject in which he wishes to qualify as a High School teacher.

On the successful completion of four years' work (128 credit hours) at the University, the student shall receive the college degree to which he is entitled by the nature of his major subject.

The fifth year shall be spent at the Perkins Normal School and in observation and practice teaching, but only those students will be eligible for the combination course who have given evidence of high scholarship and have been duly recommended on this basis by the major professor and accepted by the Superintendent of Schools and the Principal of the Perkins Normal School.

On the successful completion of the fifth year's work the Perkins Normal School will grant a Teacher's Diploma in Elementary or Secondary Education.

Graduates of this course are eligible to appointment to high school positions in Akron after a reasonable probationary period in elementary school work.

COMMUNITY CO-OPERATION

The work in community co-operation has been undertaken for the purpose of bringing the University in all its departments into close touch with the activities of the city of Akron. The Directors of the University feel that an institution of higher learning, supported in large part by municipal taxation, should give freely to the city all possible practical aid by means of its instructors and equipment.

While the work of community co-operation is not primarily organized for the purpose of teaching, yet one of its important objects will be to bring students into contact with the work of the city and to train them along various lines of practical usefulness to the community. Whenever possible, the actual problems of civic life and administration will be substituted in the various courses for purely theoretical work, since the University considers this training as one of the most important branches of its activity.

DIVISIONS OF CO-OPERATIVE WORK

The work properly falls under two heads.

- I. Special organizations or Bureaus.
- II. Co-operative work by various departments of the University.

*I. SPECIAL ORGANIZATIONS**The Bureau of City Tests*

A. E. HARDGROVE, B. S., DIRECTOR.

In accordance with a proposal made by the Directors of the University and accepted by the Akron City Council, the University assumed entire charge of the testing work of the city. The Bureau of City Tests was created and took charge of this work January 1, 1914. All analytical and diagnostic work of the city was done by the Bureau until November, 1916, when a diagnostic bacteriological laboratory was created at the Board of Health office, and assumed this work. The Bureau continues to do bacteriolog-

ical milk and water analysis, and all other physical and chemical tests for the various city departments, together with brick testing for Summit County. The Director also offers a course in bacteriology in the School of Home Economics.

The Bureau is located in the Knight Chemical Laboratory and co-operates with the Department of Chemistry in bringing students in advanced courses in chemistry into touch with city work by giving them actual problems of the city for solution as a part of their regular class work.

The Bureau of City Tests during the year of 1917 has rendered the following services to the City of Akron:

Analyses of urine	3
" " breast milk	15
" " market milk for quality	14
" " butter milk for quality	1
" " butter for quality	4
" " egg substitutes	2
" " vinegar for quality	2
" " liquors for alcoholic content	4
" " hamburg for preservative	1
" " fumigators and deodorants for strength	1
" " headache powders for alkaloids	2
" " meat in dog poisoning case for poisons (found strychnine)	1
" " tree bark for poisons	1
" " stomach contents for poisons	1
" " tea, cedar oil, cheese, patent medicine, cottage cheese and frankfurters for poisons	7
" " garbage grease	8
" " industrial water supplies	478
" " City tap water	305
" " private water supplies	139
" " (private water supplies condemned, 51)	
" " water for mineral content	2
" " oil used in city automobiles	2
" " deposit in cylinder oil	1
" " samples of gasoline	3
" " gasoline aids	2
" " gasoline substitutes found to be a fake	1
" " flue gas from gas furnace	1
" " nickel lacquer and polish found to be a fake	1
" " mica	1
Miscellaneous bacteriological examinations made	10
Cement tests made	11
Samples of cement condemned	2
Sand and gravel tests made	4
Paving brick tests made	28

Samples of paving bricks condemned	10
Examination of school rooms for ventilation and heating.....	70
Tests made were:	
Bacteriological examinations of air	31
Determination of amount of dust present in rooms.....	72
Temperature readings taken	178
Humidity determinations made	175
Examination of ultra violet ray water sterilizer	1
Furnished information and advice concerning installation of filtration equipment	1
Furnished information and advice concerning installation of drinking fountain bubblers	1
Inspection of industrial water supply installations	4
Substituted for Bacteriologist at Board of Health laboratory on two occasions.	
Meetings attended in the interest of the Dept.	28
Addresses made concerning work of the Dept.	4
Furnished information of a chemical nature to numerous citi- zens and industries, in answer to both personal and tele- phone calls.	
Loaned apparatus to citizens and industrial laboratories in the city upon request.	
Offered a course in Bacteriology in the Home Economics School of the University.	
Acted as Faculty adviser on the management of the 1917 Tel- Buch.	
Acted as Faculty adviser on the management of the Buchtelite for a portion of the year.	
Acted as Faculty adviser to the Junior class.	
In the pursuance of the above work the Department has been of service to the Board of Health, to the Dept. of Public Service, Dept. of Public Safety, Police Dept., the City Solicitor's office, Akron City Water Works, Akron Garbage Disposal Plant, the Chamber of Com- merce School Survey, Summit County Surveyor's office, private citi- zens, industrial plants of the city, the City Purchasing Dept., and the University of Akron.	

II. CO-OPERATIVE WORK BY DEPARTMENTS OF THE UNIVERSITY.

The following list covers activities of the past few years:

Department of Social Sciences

Housing survey by students under direction of Board of Health and Charity Organization; work by students with Charity Organization; (political science) field work in city departments under direction of Bureau of Municipal Research; research problems for the United States Department of Labor.

School of Home Economics

General activities in food conservation movement: conducted demonstration with diet squad; published menus and recipes; held public demonstrations in canning and drying fruits and vegetables; gave talks on food conservation to women's societies and clubs; arranged food exhibits; gave courses in Food Conservation.

Director served as member of Federal Food Administration Committee for Summit County; students conducted extension class work.

The School co-operates with the Federal Government and the Ohio State University by contributing to the expense of maintaining a city home demonstration worker with headquarters at the Municipal University.

Department of Physical Education

Summer playground work by Director and students.

Department of English

Field work in journalism on local newspapers.

College of Engineering

Students work alternate two week periods in foundries, machine shops, and on construction and railroad work. Students in civil engineering assigned to municipal work under direction of city engineer. Report on Akron pavements prepared and published at request of city council (*Akron Pavements*, 74 pp. Fred E. Ayer, Dean of College of Engineering).

Local rubber factories have co-operated with the College of Engineering by establishing from twenty to thirty scholarships in manufacturing production, by which men are trained on the co-operative basis for the rubber industry, the expense of all college fees being borne by the companies, and the student being assured of a minimum income of from \$35.00 to \$40.00 per month during his college course.

Department of Chemistry

Two fellowships in the chemistry of india rubber, open to graduates of standard American colleges, have been estab-

lished at the Municipal University by Akron rubber companies, for the purpose of training men for service in their laboratories.

Extension Work

Evening classes in the following subjects (for 1917-18): French, Spanish, German, Business English, Parliamentary Law, Public Speaking, Economics, Psychology, Business Law, Business Administration, English History, Biology, Chemistry, Mathematics, Municipal Organization and Management, Hygiene, Home Economics, Community Organization and Development (*in co-operation with the social workers of the city*), Bible Literature.

University Lecture Course presented to various clubs and organizations of the city by faculty members; also lectures on technical subjects.

Co-operation with the Board of Education

A combination course for the purpose of training teachers has been arranged by agreement between the Board of Education and the Directors of the University.

REGISTER OF STUDENTS

BUCHTEL COLLEGE

1917-1918

GRADUATE STUDENTS

Brown, Delbert F.	Hastings, Mich.
A. B., Olivet College.	
Cryder, Maurice H.	Tyrone, Pa.
B. S., Bucknell University.	
Manchester, Constance	Akron
Fine Arts, Syracuse University.	
Simms, Hazel P.	Akron
Ph. B., Municipal University of Akron.	
Williams, Ira	Wilson, Kansas
A. B., Cooper College.	

SENIOR CLASS

Babcock, Mabel Julia	P	Akron
Driesbach, Oliver Chas.	P	Akron
Ellsworth, Lloyd	P	Hudson
Gillen, Francis D.	P	Akron
Green, Leonard S.	P	Kent
Henderson, John Chas.	S	Akron
Lidyard, V. Dewey	P	Akron
McAdoo, Bruce Elliott	S	Akron
Manthey, Edwin L.	P	Akron
Means, Martha	P	Akron
Nall, Anna	S	Cuyahoga Falls
Olin, Lucretia	P	Wadsworth
Place, Marguerite	P	Akron
Rowse, Robert J.	S	Akron
Schmidt, Martin	S	Akron
Snyder, Marion	P	Akron
Tibbitts, Dorothy	P	Akron
Todd, John Alexander	S	Akron
Tomkinson, Leroy B.	P	Akron
Seniors—19		

SENIORS IN ABSENTIA

Kendall, Victor—Combined Arts-Agriculture Course with Ohio State University	Akron
Smith, Cyril R.—Combined Arts-Engineering Course with Ohio State University	Akron
Swinehart, Clyde L.—Combined Arts-Medical Course with Western Reserve Medical School	East Akron

Total Seniors—28

JUNIOR CLASS

Arnold, Wendell H.	P	Akron
Bierce, Bruce Wallace	S	Cuyahoga Falls
Boedicker, Earl	S	Akron
Carroll, Marie	P	Akron
Gilbert, Carl S.	S	Akron
Graham, Katherine Ruth	P	Akron
Grafton, John	S	Barberton
Haley, Arthur P.	S	Cuyahoga Falls
Harris, Guy L.	P	Akron
Henegan, Olive	P	Akron
Hollingsworth, Edith	P	Akron
Holloway, Harold S.	S	Akron
Hottenstein, Howard S.	S	Akron
Hunsicker, Oscar A.	P	Akron
Jones, Loretta	P	Akron
Kohn, Leona	P	Akron
Lynn, Helen Willis	P	Akron
Makman, Saul	S	Akron
Marvin, Lila Eleanor	P	Ravenna
Minnick, George	S	Akron
Motz, Clarence E.	P	Cuyahoga Falls
Myers, Howard Ervin	S	Akron
Osborne, Joseph Crosby	P	Corry, Pa.
Purdy, Walter	S	Akron
Rogers, Virgil	P	Akron
Ross, Donald	S	Akron
Rowley, Pauline	P	Akron
Shaffer, Carl R.	P	Akron
Taylor, Louise	P	Akron
Werner, Herman	S	Akron
Whigam, Frances	P	Akron
Wolcott, Mary	P	Akron

Juniors—32

SOPHOMORE CLASS

Alvis, Harold A.	S	Akron
Andreas, Anna Rosalind	C	Akron
Browning, Rufus F.	S	Akron
Butler, Whitney E.	S	East Akron
Cable, John E.	S	Akron
Calvin, Ruth	C	Akron
Clouser, Howard A.	S	Akron
Cooper, Leslie	S	Akron
Dugan, Martin E.	C	Akron
Dunford, Emerson	C	Akron
Emmons, Claudi	S	Akron
Fogle, Karl	S	Akron
Fox, Rolland D.	S	Akron
Griffith, Jack L.	C	Akron
Haas, Eugene	S	Akron
Hawk, Ethel	C	Akron

Holmwood, Walter	S	Akron
Hudson, Vyla	C	Akron
Jones, Carl	S	Akron
Knowlton, Arthur	S	Akron
Magennis, Ruth	C	Akron
McIlwain, Mary	C	Akron
Michel, Robert	S	Akron
Mitchell, Wanda McConkey	C	Akron
Pfahl, Wilbert C.	S	Akron
Ruttman, Carl	S	Akron
Shaffer, Helen	C	Akron
Stump, Walter	C	Akron
Swigart, Clarence	S	Akron
Urpman, Nina	C	Akron
Waldkirch, Earl	S	Akron
Welker, Waldo	S	Akron
Whalen, Charles F.	S	Akron
Williams, Glenn A.	S	Akron
Wilson, Harold	C	Akron

Sophomores—35

FRESHMAN CLASS

Adler, Bernard	Akron
Akers, Marjorie Stanley	Akron
Alexander, Marcella	Akron
Auseon, Frances	Akron
Avery, Bryan	Bedford
Berrodin, Henry C.	Akron
Blackburn, Grace Augusta	Akron
Blower, William	Akron
Brockett, Warren	Akron
Bruner, Byron	Akron
Bruner, Harold E.	Akron
Bunnell, Wilbur J.	Akron
Burkett, Helen	Akron
Carney, Lynn	Akron
Caswell, Edward T.	Akron
Christensen, Chester W.	Akron
Eckert, Herman Kraft	Akron
Franklin, Mitchell	Akron
Frase, Ralph Lewis	Akron
Greenwald, John Jr.	Akron
Greenwood, Martin	Akron
Griffin, Earl	Akron
Groves, Helen	Spartansburg, Pa.
Hamlin, Lucille	Akron
Hansen, Albert W.	Akron
Horn, Dorothy May	Akron
Huren, Genevieve	Cuyahoga Falls
Kaufman, Ruth	Akron
Keating, David	Akron
Keck, Isa Lillian	Akron
Keeney, C. Arthur	Akron

Knowlton, William Hardy	Akron
Kolbe, Karl William	Passaic, N. J.
Kramer, Earl	Akron
Kryder, Kathryn	Akron
Lancaster, Emmer	Akron
Lancaster, Raymond D.	Akron
Leland, Maxine	Akron
Ley, Mary L.	Akron
Martin, Helene Margaret	Akron
Melvin, Willard	Akron
Miles, Agnes M.	Akron
Moore, Chester	Hiawatha, Kan.
Morgenstern, Adolph Doran	Akron
Motz, Caleb P.	Howard
Musser, Harold	Akron
Nighman, Ruth	Akron
Nobil, Louis	Akron
Osterhouse, Helen	Akron
Porosky, Joe A.	Akron
Post, Thomas R.	Cuyahoga Falls
Raipstein, A. Hyman	Akron
Roose, Bernard	Cuyahoga Falls
Rowley, William A.	Akron
Ruple, Paul Joseph	Akron
Saviers, Naomi A.	Akron
Sawyer, Robert Voris	Akron
Schueler, Charles P.	Akron
Shuter, Ralph	Akron
Singer, James Edw.	Akron
Snyder, Harold	Akron
Steiner, Mae Belle	Akron
Stowers, Douglas Hadley	Akron
Strevey, Florence	Akron
Sutliff, Roy C.	East Akron
Sutton, Rodney C.	Akron
Taber, Willian A.	Akron
Timmis, Margaret	Akron
Vaughan, Trevor	Akron
Vaughan, Wilola	Akron
Wagner, Florence	Akron
Wagotter, Doris	Akron
Waltz, Leland	Akron
Washburn, Margaret	Akron
Weaver, Alleyne Virginia	Akron
Wentz, Edward P.	Akron
Williams, Edw. Ralph	Akron
Williams, Hollie	Wilson, Kan.
Williams, Mildred Ruth	Akron
Willyard, Wanner L.	Ravenna
Wilson, Nora Elizabeth	Cuyahoga Falls
Wood, Walter Stouffer	Akron

SPECIAL STUDENTS

Babutza, Theodore	Akron
Boyd, Marie	Akron
Burt, Harriet	Akron
Camp, Ferdinand	South Akron
Christy, Robert	Akron
Elstein, M. A.	Akron
Falls, Joseph K.	Akron
Fish, Albert S.	Akron
Foster, Harry R.	Akron
Glatthar, Ruth	Akron
Graves, Lillian Elizabeth	Akron
Guth, Louise	Akron
Hassler, Miriam	Lake
Hilton, Mac	Akron
Hower, Isabel	Akron
Johnson, Harold V.	Akron
Jones, Preston P.	Charlotte, N. C.
Langer, Harriet	Akron
Lehman, Clayton	Columbiana
McKibben, C. L.	Akron
May, Dean F.	Akron
Melikian, Misak	Akron
Miller, Bert	Akron
Miller, W. G.	Akron
Morar, Thomas	Akron
Moul, Wanda Beatrice	Akron
Palmer, Roland F.	Akron
Ridge, Helen	Akron
Rybolt, Ethyl L.	Akron
Sage, Victor	Akron
Smith, Stuart	Akron
Snider, George Earl	Akron
Tanner, Marjorie	Akron
Thomas, Harold	Millersburg
Thomas, Mary	Akron
Turner, Roberta	Akron
Vogt, Walter William	Clyde
Zelner, Thomas	Akron

Special Students—38

COLLEGE OF ENGINEERING

FOURTH YEAR CLASS

Cady, Emerson	Akron
Converse, Lucius F.	Mantua
Gullick, J. Earle	Akron
Joel, Floyd E.	Akron
Judy, Lowell	Kent
Kennedy, John S.	Akron

Purdy, Harold	Akron
Mitchell, Ernest	Akron
Soderlund, Carl	Worcester, Mass.
	Fourth Year—9

PRE-JUNIOR CLASS

Bordner, Robert	Akron
Breen, Leo	Akron
Kuszmaul, Corliss	Akron
Miller, John F.	Akron
Pollock, Lloyd C.	Akron
Siedschlag, Karl	Akron
Thierry, James	Akron
Vogt, Walter H.	Akron
	Pre-Juniors—8

SOPHOMORE CLASS

Braucher, Fred J.	Akron
Carlin, Charles	Kent
Close, Stanford D.	Akron
Dieterich, Harold M.	Tallmadge
Fletcher, Robert F.	Ravenna
Harper, Ivan S.	Akron
Heminger, Harold	Akron
O'Brien, Robert T.	Akron
Robinson, Alfred B.	Akron
	Sophomores—9

FRESHMAN CLASS

Berrodin, Louis F.	Philadelphia, Pa.
Bertele, Louis	Akron
Bowers, Shirley A.	Akron
Burris, Calvin B.	Millersburg
Crawford, George W.	Hoquiam, Wash.
Daggett, Walter N.	Orofino, Ida.
Daniel, Emmett V.	Waverly, Tenn.
Deans, Alvah W., Jr.	Coshocton
Foster, George W.	Pearl River, N. Y.
Gorsuch, Frank L.	Akron
Hoffman, Lorin	Akron
Hungerford, Courtland	Akron
Lloyd, J. Edward	Oak Hill
Lynn, James	Akron
Peterson, Amos A.	Coeur d'Alene, Ida.
Pritchartt, W. Howard	Natchez, Miss.
Thorp, Edgar M.	Ravenna
Trescott, Boyd M.	Berwick, Pa.
Van Oostenbrugge, K. C.	Ulster Park, N. Y.
Warren, Arthur H.	Kingston, N. Y.
Weeks, James A.	Akron
White, Daniel L.	Akron
Zellars, R. J.	New Lexington
	Freshmen—23

SPECIAL STUDENTS

(Not candidates for degree)

Halpern, Philip	Akron
Mager, Ernest	Fararberg, Austria
Torres, Manuel	Vega Baja, Porto Rico
	Special Students—3

CURTIS SCHOOL OF HOME ECONOMICS

GRADUATE STUDENTS

Roach, Alberta	Akron
	Ph. B., Municipal University of Akron.

SENIOR CLASS

McConnell, Hazel	Akron
Putt, Hazel M.	Akron
	Seniors—2

JUNIOR CLASS

Durant, Amy Alice	Akron
Hardie, Helen V.	Akron
Kepler, Helen	Akron
Robinson, Irma	Akron
Stevenson, Alta	Akron
Wolf, Cecelia R.	Akron
	Juniors—6

SOPHOMORE CLASS

Frampton, Bertha	Akron
Garver, Katherine	Akron
Kerch, Hazel	Akron
Marshall, Mildred	Barberton
Reynolds, Florence	Akron
	Sophomores—5

FRESHMAN CLASS

Betzler, Alma	Akron
Bierce, Marion Frances	Cuyahoga Falls
Capron, Miriam Rachel	Akron
Carmichael, Frances	Akron
Cunnington, Amy B.	Akron
Donnenwirth, Ruth Katherine	Akron
Freedlander, Rosalind Gertrude	Akron
Frick, Iva Dora	Akron
Galehouse, Alice	Akron
Kepler, Lois	Akron
Kline, Helen B.	Akron

Kraus, Luise	Akron
Looker, Helene Gwynne	Akron
McClain, Mary Arhea	Akron
Schaffner, Dorothy	Akron
Smith, Maude Elaine	Akron
Stevenson, Hazel Allen	Akron
Thomas, Mildred	Akron
Whalen, J. Louise	Akron
Wright, Helen Frances	Akron
Freshmen—20	

SPECIAL STUDENTS

(Not candidates for degree)

Krubbfeldt, Mabel	Akron
Falk, Martha	Wadsworth
Looker, Lucy Ann	Akron
Special Students—3	

SUMMARY OF STUDENTS IN DAY CLASSES

BUCHTEL COLLEGE

	Men	Women	Total
Graduate Students	3	2	5
Senior Class	16	6	22
Junior Class	20	12	32
Sophomore Class	26	9	35
Freshman Class	53	29	82
Specials (entrance requirements completed)	15	13	
Specials (entrance requirements not completed)	9	1	
Total Specials			38
Total Men		2	142
Total Women			72
Total Students in Buchtel College			214

COLLEGE OF ENGINEERING

Fourth Year	9
Pre-Juniors	8
Sophomores	9
Freshmen	23
Specials (not candidates for degree)	3
Total Students in College of Engineering	52

CURTIS SCHOOL OF HOME ECONOMICS

Graduate Students	1
Seniors	2
Juniors	6
Sophomores	5
Freshmen	20
Specials (not candidates for degree)	3
Total Students in Curtis School	37

EVENING CLASSES

Aasen, George	Danner, Fred W.
Adams, J. F.	Danner, Ruby
Alexander, C. P.	Dempsey, Esther
Amer, Bernard	Dempsey, Helen
Amos, Jennie	Dempsey, Ruth
Andreoli, J. A.	Derrig, Dorothea
Ayer, F. E. Mrs.	Dike, Lane
Bakay, Rev. A.	Donnenwirth, Emma
Ballau, Chas. A.	Driesbach, Oliver C.
Barmore, R. A.	Dugan, M. E.
Barry, Mrs. Nellie	Dunn, Ammon
Beachler, C. L.	Durling, G. K.
Beason, Olive	Edmunds, Oliver
Beebe, Paul	Edgerton, Pauline
Betterton, B. C.	Elliott, John A.
Berrodin, L. F.	Ellsworth, Lloyd
Bixby, W. S.	Ely, John
Blank, Arthur C.	Emery, Carl R.
Bleckner, Lillian	Epstein, Bessie R.
Blessman, Freda	Erosky, Mary
Bolin, John W.	Evans, John C.
Boerstler, Russell K.	Fahey, Sarah
Botsford, Laurence C.	Farley, Russell
Boynton, Lyman C.	Farrell, Raymond
Bradley, Francis	Farson, Anna E.
Braver, Jehudah	Farver, Bertha
Brasaemle, Robert M.	Farver, Wm.
Breen, Bertha	Farver, W. E.
Brown, Delbert F.	Fay, W. L.
Brown, Edward	Fisher, Elizabeth
Brown, F. W.	Fisher, Laura
Brown, Mrs. M.	Fitch, Winifred
Brouse, Clara	Fleming, Ina
Bryan, Bessie M.	Flickinger, Todd
Burner, Ludwig	Fogle, Carl F.
Butler, H. K.	Foltz, H. A.
Cable, John	Foltz, William W.
Cahill, Harry C.	Fowls, Carl
Cahoon, Lester	Frase, Alice
Campkin, W. H.	Frese, Lawrence A.
Cardarelli, Elizabeth	Fuller, Percy
Caris, Lila	Fuller, W. A.
Carlton, B. B.	Gardner, Nina
Chalfant, Anna B.	Goertner, G. E.
Charleson, J. T.	Golden, Michael
Chechat, Charles	Goldstein, J.
Chenot, John C.	Grand, D. A.
Chittenden, Leah	Graunkey, H. W.
Chittenden, T. A.	Gray, Elmer
Currell, Trueman	Green, Leonard
Daniel, E. V.	Greenberg, Harry
Daniels, T. E.	Griffin, Walter McRae

Gulick, Martha
 Haas, Elma
 Haberkost, Lillian
 Halpin, John W.
 Hardman, Bert
 Harrington, Vera M.
 Harris, Robert
 Harkins, Katherine
 Harkins, Mrs. Sarah
 Harkins, Dr. T. W.
 Haroutunian, J.
 Hartzell, John
 Hazen, Raymond
 Hedden, Ralph Jay
 Heddesheimer, Lydia
 Hensel, Minnie
 Herman, Virna
 Herndon, Maude
 Hibbs, Albert S.
 Hickey, Wm. Mark
 Hines, Paul
 Hirtleman, Grace
 Hitchcock, Georgia
 Hitchcock, Helen
 Holloway, Harold
 Holmwood, Walter
 Hood, Norval
 Horkey, Joseph
 Horning, Cloe
 Hunsicker, C. S.
 Huntley, R. E.
 Huntley, Vesta
 Hutchison, R. B.
 Jackson, Bernice
 Jamison, Edward H.
 Jenney, C. W.
 Johnson, R. A.
 Jones, Carl H.
 Julian, Cornelius
 Karlson, Mabelle
 Karnaghan, Ruth
 Kempel, Caroline B.
 Kempel, E. J.
 Kelley, Isabelle
 Kelley, William F.
 Kennedy, Dorothy
 Kennedy, Ruth
 Kenney, J. C.
 Kidd, B. M.
 Kincaid, Charles S.
 Kittredge, John W.
 Kittredge, Mrs. J. W.
 Koonts, Raymond R. 100
 Kraus, John A.
 Kress, A. R.
 Kroeger, Katherine
 Laher, Margaret
 Lampson, E. J.
 Legs, Dr. Lucy
 LeChot, Charles
 Lehman, W. J.
 Leiby, Edward O.
 Lelansky, Ross
 Leonard, Shirley
 Leonhiser, Wilomine
 Lloyd, J. Edw.
 Lewis, Freda G.
 Lewis, L. D.
 Lewis, Lucy A.
 Long, H. C.
 Lump, Edith
 Lynn, Arthur D.
 McBride, Fred
 McCarley, Mr.
 McCarthey, Nora
 McCaughey, E. D.
 McClay, Wilbur H.
 McDowell, W. E.
 McGary, Mary
 Makman, Saul
 Martin, Julia
 Materna, William C.
 Mathews, June
 Marks, Lloyd
 Maxwell, Guy M.
 Means, Margaret
 Menke, L.
 Messenger, Virgil S.
 Miller, Francis J.
 Minrow, Kathryn
 Mirviss, Jacob
 Mitchell, H.
 Mitchell, William
 Moore, Ruth I.
 Mosley, Arthur R.
 Mueller, G. E.
 Mumbower, Leonard
 Munn, Mary
 Murphy, Irene
 Nash, Edith
 Neustadt, R. M.
 Neustadt, Mrs.
 Oakes, Linnie
 O'Brien, Robert
 O'Hara, Marie
 Olin, Mrs. C. R.
 Olin, Stella
 Orr, Lowell P.
 Paddington, Horace
 Palmer, Helen
 Pardee, Mrs. Martha
 Parke, Elmer
 Parsons, A. R.
 Partridge, Edith H.
 Pearson, J. L.
 Peguesse, Mary
 Penland, F.
 Phillips, Oscar B.
 Platt, Raymond
 Pope, Harold
 Price, G.
 Queberg, J. C.
 Ramsey, A. R.
 Ranck, Miss
 Raub, Susie
 Redinger, Mary
 Reeder, W. B.
 Riddle, Mrs. G.
 Rigel, A. L.
 Roach, Alberta
 Robb, Isabelle
 Robe, T. S.
 Roberts, J. R.
 Rockwell, Bennett
 Roe, Estelle
 Rogers, Henry
 Rohrer, P. C.
 Rose, O. Grace
 Roskuski, Charles
 Ryan, C. R.
 Sabin, F. G.
 Salyards, J.

Sanders, N. B.	Sturtevant, Mrs. F. D.
Schaefer, E. O.	Sullivan, Margaret
Schill, H. W.	Tecuwen, W.
Schmidt, Eleanor	Thee, W. E.
Schoenduve, George	Thiesen, Jos. A.
Schwab, N. L.	Tier, Anna
Schwartz, Charlotte	Towers, H. L.
Schwalbach, Gertrude	Van Brimmer, E.
Schwin, Helen	Vandersall, Clara
Schwindling, Matilda	Vanica, H. G.
Sebring, Harry M.	Vessey, E. W.
Sebring, Louise	Von Guinther, W. E.
Seiberling, Mrs F. A.	Vincke, Ferdinand N.
Seiberling, Irene	Vly, Lattimore
Sessions, J. A.	Voris, Marion
Seymour, Ruth	Vocek, Miss
Shackett, Lillian	Waldo, Kenneth
Sidwell, Arthur	Walsh, C. J.
Simmons, Mrs. H. E.	Ward, Janet C.
Silverstein, A. W.	Watkins, James A.
Simpson, William	Watson, R. W.
Smetts, Adah	Weilbrenner, Marie
Smith, G. H.	Wells, George B.
Snider, George	Wertz, Grace
Spalding, Warren R.	White, Roan R.
Spanton, Mrs. A. I.	Wilson, L. B.
Spuller, Jos	Wilson, William
Squier, Mary J.	Wilt, Roy
Stahl, John M.	Wolfe, Ernest
Statler, H. W.	Wolverton, Grace B.
Steidle, Albert	Wolverton, Ruth
Steidle, Walter	Wondrack, Anthony
Sterley, Mary J.	Wood, T. B.
Stevens, Maude	Woodward, J. C.
Stockdale, Carl	Yost, Elizabeth
Stone, Walter L.	Zimmerman, Allen O.
Stump, Walter H.	Zook, D. B.
Stuart, P. A.	

Total	321
Students regularly enrolled in University taking evening courses, deduct	18
Total Evening Students	303

201
114
182

SUMMARY OF ALL STUDENTS IN UNIVERSITY

	Men	Women	Total
Graduate Students	3	3	6
Total Seniors	16	8	24
Total Fourth Year (Engineering)	9		9
Total Juniors	20	18	38
Total Pre-Juniors (Engineering)	8		8
Total Sophomores	35	14	49
Total Freshmen	76	49	125
Specials (candidates for degree).....	15	13	28
Specials (not candidates for degree)	12	4	16
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Total Men			194
Total Women			109
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Total in Day Classes			303
Total in Evening Classes	303		
(On basis that five evening students are equivalent to one full-time student)			60
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Total Full-time Students in University			363

SUMMARY OF GEOGRAPHICAL DISTRIBUTION

(Exclusive of Evening Classes)

Akron	246
Summit County outside of Akron	13
Ohio outside of Summit County	21
Other States	23
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	303

DEGREES CONFERRED

BUCHTEL COLLEGE

Class of 1917

BACHELOR OF PHILOSOPHY

✓ Azar, Robert I.	Akron
✓ Brown, Donald Emerson	Cuyahoga Falls
Chain, Faye Thompson	Akron
Cushman, Josephine Amanda	Akron
✓ Parrah, David	Akron
✓ Frederick, Inez Anna	Copley
✓ Hardie, Julia Elizabeth	Akron
✓ Olin, Esther Ellene	Akron
✓ Pfahl, Helen Agnes	Akron
✓ Quinlan, Dorothy Anne	Akron

Richardson, Marion S.	Cuyahoga Falls
Roth, Samuel	Akron
Sammarone, Salvan	Akron
Santom, Thomas Baldwin	Akron
Shea, Joseph B.	Akron
Simms, Hazel Prestage	Akron
Thornton, Dwight G.	Akron

BACHELOR OF SCIENCE

Carlton, Clinton Arbie	Medina
Freeder, Arthur	Akron
Gable, Norris Leroy	Akron
Geisinger, Elliott E.	Akron
Hugi, William Edgar	Clarington
Kasch, Richard M.	Akron
Kittelberger, Fred W.	Akron
Knowlton, John A.	Akron
Mertz, Raymond A.	Akron
Poules, Ira C.	Akron
Schaeffer, Carl H.	Akron
Squibbs, Hubert S.	Akron
Stansfield, Percy W.	Akron

CURTIS SCHOOL OF HOME ECONOMICS

BACHELOR OF SCIENCE

Burkmann, Anne C.	Akron
Wleaver, Josephine	Akron
Fleming, Rachael E.	Akron
Mallery, Helen M.	Cuyahoga Falls
Tobin, Honora	Akron

*In combined Arts-Law course with Ohio State University.

PUBLIC ADDRESSES

January 5	Mr. C. S. Weaver—"The Y. M. C. A. in the Business World."
January 10	Prof. John A. Lomax—"Cowboy Poetry."
January 26	Mr. R. M. Neustadt—"Corporation Welfare Work."
February 9	Mr. Vincent S. Stevens—"The Smith One Per Cent Law."
February 23	Mr. Roy Young—"Birds and Bird Music."
March 2	Pres. P. R. Kolbe—"Social Welfare Agencies of Akron."
March 9	Dr. C. E. Manchester—"McKinley."
March 16	Mr. J. W. Taylor—"The Boy Scout Movement."
March 23	Pres. Stowe, Toledo University—"Our Country's Call to her Liberally Educated Sons and Daughters."

March 30	Rev. Martin Fereshetian—"From the Fifth to the Twentieth Century."
April 13	Professors DeLeone and McLean—Recital.
April 20	Mr. C. L. Knight—"The Food Problem and the World War."
April 27	Rev. Peter Ainslie—"Reason as against War."
April 30	Dr. C. S. Curtis—"Medical Work of the Grenfell Mission."
May 11	Miss Mildred Winship—"The Work of a City Y. W. C. A."
May 18	Serg't Carl Kavenagh—"The Army."
June 1	Dean A. I. Spanton—"The Nature and Purpose of a Liberal Education."
June 17	Rev. L. N. D. Wells, 1st Church of Christ—Baccalaureate Sermon.
June 20	Dr. Washington Gladden, Commencement Address—"Planetary Politics."
June 20	Former Senator Charles Dick—"Events of Present Day Interest."
September 28	Dr. Sowers, Bureau of Municipal Research—"Problems in City Government."
October 5	Judge E. D. Fritch—"New Charter Commission."
October 19	Mrs. Smeath, Tiffin, Ohio—"Liberty Bonds."
October 26	Chester McTammany—"Akron Press Advertising."
November 16	Mr. Chas. J. Woodbury—"Emerson."
November 23	Dean A. I. Spanton—Tribute to Aunty Brown.
December 7	Dr. Edgar Banks—"Archæological Stories."

PRIZES AND HONORS

The Alumni Board of Trustees appropriates annually \$100.00 from the Alumni Prize Fund for a Alumni speaker, under the auspices of the Alumni Association; also a cash prize of \$50.00 to be awarded to that member of the graduating class who attains the highest average standing during the four-year course. The prize for 1917 was awarded to Hazel Prestige Simms.

The Tomlinson Prizes on The Municipal University

First Prize: David Darrah; second prize, not awarded.

Phi Sigma Alpha

(An honorary society for the purpose of encouraging high scholarship. Three students are chosen for membership from each senior class.)

1917

Hazel P. Simms, Arbie Clinton Carlton, Inez Anna Frederick.

BUCHTEL COLLEGE ALUMNI ASSOCIATION

Organized July, 1874

Incorporated October 19, 1899

OFFICERS FOR 1917-1918

President, C. R. OLIN, '85	Akron
Vice-Presidents, JOHN GRIMM, '03	Akron
MRS. J. C. ROCKWELL, '98	Akron
Secretary, MARION VORIS, '14	Akron
Treasurer, A. E. HARDGROVE, '11	Akron

ALUMNI BOARD OF TRUSTEES

Officers

C. R. OLIN, '85	President ex-officio
MARION VORIS, '14	Secretary ex-officio
A. E. HARDGROVE, '11	Treasurer ex-officio

Term Expiring June, 1918

F. S. GOEHRING, '08	Akron
CARL M. MYERS, '08	Akron
MRS. H. E. SIMMONS, '06	Akron
BERNICE CARTER, '15	Akron

Term Expiring June, 1919

MRS. SUSIE C. COLE, '73	Akron
LEROY BARNETT, '14	Akron
EVA ROHNER, '16	Akron
ROBERT WILSON, '14	Akron

Term Expiring June, 1920

RACHEL FLEMING MERTZ, '17	Akron
F. GLENN ALEXANDER, '14	Akron
MRS. E. W. BARTON, '98	Akron
CHARLES JAHANT, '09	Akron

Annual meeting of the Association during Commencement.

Stated meetings of the Alumni Board of Trustees: the Thursday evening of the week following Commencement week, the third Thursday evening of November, February and May.

SUMMARY OF ALUMNI

NUMBER OF GRADUATES

Men	308
Women	258
Total	566

Geographical Distribution

Deceased	51
Unknown	4
In California	13
In Colorado	4
In Connecticut	1
In Florida	1
In Georgia	3
In Idaho	3
In Illinois	9
In Indiana	14
In Iowa	3
In Massachusetts	10
In Michigan	12
In Minnesota	1
In Mississippi	1
In Missouri	3
In Montana	1
In Nebraska	2
In N. Carolina	1
In N. Dakota	1
In New Jersey	2
In New Mexico	1
In New York	28
In Ohio	360
In Oklahoma	1
In Oregon	2
In Pennsylvania	20
In Tennessee	1
In Texas	1
In Utah	1
In Vermont	3
In Washington	2
In Wisconsin	1
In Wyoming	1
In Alaska	1
In Panama	2
In France	1

Occupations of Alumni

Actors	2
Architects	1
Artists	1
Authors	3
Bankers	4
Charity Organization Work	1
Chemists	28
Clergymen	11
Clerical Work	19
Commercial Work	42
Contractors	1
Decorators	1
Engineers	12
Farmers	9
Forestry	1
Government Employ	8
Insurance and Real Estate	9
Lawyers	42
Librarians	3
Living at Home	43
Lyceum Bureau Work	1
Manufacturers	4
Married	82
Merchants	4
Musicians	4
Newspaper Work	6
Nurses	4
Physicians	18
Promoters	4
Public Service	2
R. R. Agents	1
Salesmen	7
Secretarial Work	11
Students	15
Teachers and Professors	98
Unknown	9
Dietitians	4

FINANCIAL REPORT FOR 1917

Current Income and Expense for January 1 to December 31, 1917.

INCOME

Tax Levy	\$69,587.51
Students' Fees	9,810.71
Interest on Endowment	2,955.17
Rents	1,036.00
Miscellaneous	202.50
	<hr/>
Total Income	\$83,591.89

EXPENSE

Personal Service	
Administration	\$ 8,000.81
Instruction	44,526.46
Bureau of City Tests	2,224.79
Labor	4,716.54
	<hr/>
	\$59,468.60
Supplies	9,293.74
Contractual Services	2,742.26
Membership in Societies	75.00
Maintenance	3,518.03
Annuities	2,940.15
Outlays	7,548.55
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	\$85,586.33

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