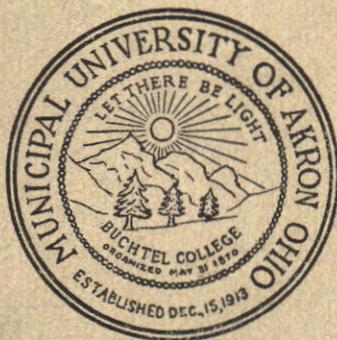


The Municipal University of Akron

Akron, Ohio

May, 1914

Annual Catalog 1914



Published by The Municipal University
of Akron

FIRST
ANNUAL CATALOG

of the MUNICIPAL
UNIVERSITY OF AKRON

and

FORTY-THIRD ANNUAL CATALOG

of

BUCHTEL COLLEGE

AKRON, OHIO

May 1914

TABLE OF CONTENTS

PART I

General Information

	PAGE
CALENDAR	7
BOARD OF DIRECTORS	9
ADMINISTRATIVE OFFICERS	9
GENERAL FACULTY AND OFFICERS	10
ORGANIZATION OF THE FACULTY	14
GENERAL INFORMATION—	
Foundation	15
Aim	16
Departments	16
Combination Courses	17
Equipment	18
Bierce Library	18
Funds, Prizes and Scholarships—	
Katherine Claypole Loan Fund	18
Ashton Prizes	19
Senior Alumni Prize	19
Tomlinson Prizes	19
Buchtel College Scholarships	20
Free Tuition	20
Student Organizations	21
Phi Sigma Alpha	21
Athletics	22
ADMISSION—	22
Special Students	23
Advanced Standing	24
REGISTRATION	24
GENERAL REGULATIONS	25
FEES—	
Resident Students	28
Non-Resident Students	28
EXPENSES FOR LIVING	30
SELF HELP	30

PART II

Buchtel College of Liberal Arts

	PAGE
FOUNDATION	32
INCORPORATORS	32
PRESIDENTS	32
FACULTY	33
ENDOWMENTS	34
PERPETUAL SCHOLARSHIPS	36
ENTRANCE REQUIREMENTS	37
ENTRANCE AT MID-YEAR	39
DESCRIPTION OF ENTRANCE UNITS	40
COURSES OF STUDY—	
Classical Course	50
Philosophical Course	51
Scientific Course	53
DEGREES	54
REGULATIONS ON COURSE OF STUDY	55
FEEES	57
SUBJECTS OF INSTRUCTION	58
Greek	59
Archeology	60
Latin	61
English—	
Rhetoric	64
Language and Literature	67
Public Speaking	70
German	72
French	79
Spanish	81
Mental and Moral Philosophy	81
Logic	83
Social Science	83
History	86
Mathematics	87
Astronomy	90
Geology	90
Mechanical Drawing	91
Physics	93
Chemistry	96
Biology	100
Physical Education	103
SCHEDULE OF CLASSES	106

PART III

The College of Engineering

	PAGE
GENERAL STATEMENT	110

PART IV

The Curtis School of Home Economics

GENERAL INFORMATION—	
Admission	112
Entrance Requirements	112
Course of Study	112
Required Studies	113
Degrees	114
Fees	114
SUBJECTS OF INSTRUCTION—	
English	115
Public Speaking	116
German	117
French	119
Economics and Sociology	120
History	120
Chemistry	121
Biology	122
Bacteriology	123
Mechanical Drawing	123
Home Economics	123
Physical Training	125
SCHEDULE OF CLASSES	126

PART V

Combination Courses

WITH OHIO STATE UNIVERSITY	130
The Arts—Law Course	130
The Arts—Agricultural Course	131
WITH WESTERN RESERVE MEDICAL SCHOOL.....	131
WITH OTHER SCHOOLS	135

PART VI

The Department of Civic Co-operation

	PAGE
SPECIAL ORGANIZATIONS—	
Bureau of City Tests	138
Bureau of Industrial Chemical Research	139
CO-OPERATIVE WORK BY DEPARTMENTS—	
With Board of Health	139
With City Council	140

PART VII

Register of Students, Etc.

SENIOR CLASS OF BUCHTEL COLLEGE	141
JUNIOR CLASS OF BUCHTEL COLLEGE	141
SOPHOMORE CLASS OF BUCHTEL COLLEGE.....	142
FRESHMAN CLASS OF BUCHTEL COLLEGE.....	143
SPECIAL STUDENTS OF BUCHTEL COLLEGE.....	144
SUMMARY	145
DEGREES CONFERRED IN 1913	146
ALUMNI ASSOCIATION	147
ALUMNI PRIZE AWARDS	148
ASHTON PRIZE AWARDS	148
SECONDARY SCHOOL SCHOLARSHIPS	148
GIFTS TO THE UNIVERSITY	149
INDEX	150

UNIVERSITY CALENDAR.

1914

- January 5, Monday, 7:45 A. M.—Class Work resumed.
 January 18, Sunday—Founder's Day.
 January 16 and 19, Friday and Monday—Classification for Second Semester.
 January 26-30—Final Examinations.
 January 30, Friday, 5 P. M.—First Semester closes.
 February 3, Tuesday, 7:45 A. M.—Second Semester begins.
 February 20, Friday—Senior Promenade.
 March 13, Friday, 7:30 P. M.—Sophomore Ashton Speaking Contest.
 April 3, Friday, 5 P. M.—Easter Recess begins.
 April 14, Tuesday, 7:45 A. M.—Class Work resumed.
 May 21, Thursday—General Student Elections.
 May 29, Friday—Tree Day.
 June 6, Saturday, Senior Vacation begins.
 June 8-12—Final Examinations.
 June 12, Friday, 8 P. M.—Senior Class Exercises of Academy.
 June 14, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
 June 15, Monday, 10 A. M.—Senior Class Day Exercises.
 June 15, Monday, 8 P. M.—Junior Hop.
 June 16, Tuesday, 2:30 P. M.—Junior Ashton Speaking Contest.
 June 16, Tuesday, 8 P. M.—President's Reception.
 June 17, Wednesday, 9:30 A. M.—Commencement Exercises.
 June 17, Wednesday, 2 P. M.—Alumni Meeting at Buchtel Hall.
 June 17, Wednesday, 8 P. M.—Alumni Banquet.
 September 14, Monday }
 September 15, Tuesday } Registration and Classification.
 September 16, Wednesday, 7:30 A. M.—Class Work begins.
 September 24, Thursday—Freshman Elections.
 November 26, 27, 28, Thursday, Friday and Saturday—Thanksgiving Recess.

December 4, Friday, 8:00 P. M.—Senior Ashton Contest.
 December 19, Saturday, 12:00 noon—Christmas Holidays
 begin.

1915

January 4, Monday, 7:30 A. M.—Class Work resumed.
 January 18, Monday—Founder's Day.
 January 15 and 18, Friday and Monday—Registration and
 Classification for Second Semester.
 January 25 to 29—Mid-year Examinations.
 January 29, Friday—First Semester ends.
 February 2, Tuesday, 7:30 A. M.—Second Semester
 begins.
 February 12, Friday—Senior Promenade.
 March 12, Friday, 8:00 P. M.—Sophomore Ashton Contest.
 March 27, Saturday, 12:00 noon—Easter Recess begins.
 April 6, Tuesday, 7:30 A. M.—Class Work resumed.
 May —, Friday—Tree Day.
 June 5, Saturday, 12:00 noon—Senior Vacation begins.
 June 7-11, Final Examinations.
 June 13, Sunday, 2:30 P. M.—Baccalaureate Service.
 June 14, Monday, 10:00 A. M.—Senior Class Day Exer-
 cises.
 June 14, Monday, 8:00 P. M.—Junior Hop.
 June 15, Tuesday, 2:30 P. M.—Junior Ashton Speaking
 Contest.
 June 15, Tuesday, 8:00 P. M.—President's Reception.
 June 16, Wednesday, 10:00 A. M.—Commencement Exer-
 cises.
 June 16, Wednesday, 2:00 P. M.—Alumni Meeting, Buchtel
 Hall.
 June 16, Wednesday, 8:00 P. M.—Alumni Banquet.

THE BOARD OF DIRECTORS

Appointed December 15, 1913, by the Mayor of Akron

FRANK A. SEIBERLING	For two years
WILSON A. PUTT	For two years
CLARENCE CARLTON	For two years
FRANK M. COOKE	For four years
JAMES P. LOOMIS	For four years
MARK D. STEVENSON	For four years
WILLIAM B. BALDWIN	For six years
ALBERT A. KOHLER	For six years
PARKE R. KOLBE	For six years

OFFICERS FOR 1914

PARKE R. KOLBE	<i>Chairman</i>
CHARLES R. OLIN	<i>Clerk</i>

COMMITTEES FOR 1914

<i>Committee on Finance:</i>	BALDWIN, LOOMIS, STEVENSON.
<i>Committee on Investments:</i>	COOKE, SEIBERLING, KOHLER.
<i>Committee on Buildings and Grounds:</i>	CARLTON, KOLBE, PUTT.

**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 RINES, 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>
FRANK HAGGERTY, LL. B.	<i>Physical Director</i>
RENA B. FINDLEY	<i>Librarian</i>

GENERAL FACULTY AND OFFICERS

PARKE R. KOLBE, Ph. D.,

*President of the University and Hilton Professor of
German Language and Literature*

President's House

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

Director of the Bureau of Industrial Research

129 S. 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*

128 North Forge Street

ALBERT I. SPANTON, A. M.,

*Pierce Professor of English and Dean of Buchtel Col-
lege*

407 Vine Street

FRANK HAGGERTY, LL. B.,

Director of the Department of Physical Education

620 East Buchtel Avenue

SIDNEY J. LOCKNER, A. M.,

Ainsworth Professor of Mathematics and Physics

201 Spicer Street

HEZZLETON E. SIMMONS, M. S.,

Buchtel Professor of Chemistry

448 Henry Court

EMILY RAY GREGORY, Ph. D.,

Professor of Biology

221 Spicer Street

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

CHARLES BULGER, Ph. B.,

Assistant-Professor of German Language and Literature

74 Mayfield Avenue

On leave of absence 1914-15

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

271 Rosedale Place

M. ALICE RINES, A. M.,

Assistant-Professor of Romance Languages

Curtis Cottage

LLOYD VAN DOREN, Ph. D.,

Assistant-Professor of Chemistry

27 North Union Street

CHARLES O. RUNDELL, B. S.,

Assistant-Professor of German

483 Orchard Court

ARDEN E. HARDGROVE, B. S.,

Assistant-Professor of Chemistry and Director of the Bureau of City Tests

137 Highland Avenue

ELIZABETH A. THOMPSON, A. M.,*

Assistant-Professor of History and Dean of Women

146 South College Street

*To date from Sept. 1914.

CARITA McEBRIGHT, A. B.,

Instructor in Oratory

396 East Market Street

DEAN C. OBER, B. S. in E. E.,
Instructor in Mathematics and Physics
 200 Spicer Street

K. DOLBEER SMITH, B. S.,
*Instructor in Chemistry and Assistant in the Bureau of
 Industrial Research*
 487 East Buchtel Avenue

ELEANOR SCHMIDT, PH. B.,
Instructor in German for 1914-15

ALBERT E. SIDNELL,
Graduate Assistant in Chemistry for 1914-15
 Cuyahoga Falls

CHRISTINE SMITH,
Instructor in Physical Training for Women
 Graduate New Haven Normal School of Gymnastics
 46 North Balch Street

ISABEL A. BRADLEY, M. D.,
Medical Examiner for Women
 221 Ash Street

Lectures on Hygiene for Women were given in 1913-14
 by Dr. Emily Ray Gregory of the Department of Biology.

STUDENT ASSISTANTS, 1913-1914

RILLA BRUEDERLEIN*Biology*
 HELEN WESTLEY*German*
 PAULINE WEAVER*Chemistry*
 ARTHUR RANNEY*Surveying*
 LOUISE MIGNIN*English*
 RALPH JOHNSON*English*

GENERAL STAFF

RENA B. FINDLEY*Librarian*
112 South Maple Street

GLADYS P. WEEKS.....*Secretary to the President*
248 South Balch Street

MRS. LUCY L. DAVIS*Matron at Curtis Cottage*

AMY PAYNE*Matron at Curtis Cottage*
Curtis Cottage

ANNA F. EISENBART.....
.....*Secretary to the Dean of the College of Engineering*
299 Cross Street

MILDRED LAWRENCE*Office Assistant*
Barberton

FRED H. NESTELLE*Janitor and Engineer*
343 Margaret Street

REUBEN DEAN*Fireman*
261 Carroll Street

H. HOOD*Ground Keeper at Athletic Field*
415 Kling Street

**ORGANIZATION OF THE UNIVERSITY
FACULTY**

PARKE R. KOLBE*President*
 OSCAR E. OLIN*Vice President*
 M. ALICE RINES*Secretary*

COMMITTEES OF THE FACULTY

1913-1914

Executive Committee

KOLBE, SPANTON, SIMMONS, RUNDALL

Classification and Records

ROCKWELL, SPANTON, BULGER

Public Speaking

STURTEVANT, McEBRIGHT, VAN DOREN

Library

SPANTON, C. R. OLIN, BULGER

Socials and Holiday Observances

O. E. OLIN, GREGORY, DAVIS, THOMPSON

Athletics

BULGER, KOLBE, C. R. OLIN, HAGGERTY

Buildings and Grounds

C. R. OLIN, KOLBE, LOCKNER

Student Elections

SIMMONS

Secretary of Faculty

RINES

GENERAL INFORMATION*FOUNDATION*

1. 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 not in accordance with the historical meaning of the term "University," i. e., into the four faculties of Physiology, Law, Medicine and Theology, but rather into such schools as may train the High School graduate in various practical and technical callings. Generally speaking, 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

For the school year 1914-1915:

- Buchtel College of Liberal Arts.
- The College of Co-operative Engineering.
- The Curtis School of Home Economics.
- The Department of Municipal Co-operation.

Buchtel College of Liberal Arts

(See page 32)

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 Philosophy and Bachelor of Science.

The College of Co-Operative Engineering

(See page 110)

This College will be opened in September, 1914, and will, during its first year, receive only the entering or first year class. Courses in various branches of engineering will be developed.

The Curtis School of Home Economics

(See page 112)

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

The Department of Civic Co-Operation

(See page 138)

It is the intention 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 departments in every possible manner by expert advice and service. Advanced students will be employed wherever possible in the activities of this department, receiving credit for work thus performed and gaining the additional advantage of a practical training in various phases of municipal affairs.

COMBINATION COURSES

(See page 130)

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.

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, to be used in the future as an Engineering Building; the central heating plant; Curtis Cottage, to be used as the home of the School of Home Economics; and the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000.

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 10,000 volumes, exclusive of public documents, and is at present located in Buchtel 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 me-

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. C. W. Milliken, Chairman Women's Committee, 396 East Market Street, or 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

Through 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 the subject: "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.

Buchtel College Scholarships

(See page 36)

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 President, honorable dismissal will not be granted until full tuition and all other college dues have been paid.

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 can 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 though 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 Men's Glee Club; The Women's Glee Club; The Women's League; The Tel-Buch Association (Junior Class); The College Orchestra; The Buchtelite Association; The Dramatic Study Club; The Y. W. C. A.; 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.

PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary society, founded for the purpose of encouraging high scholarship among the Buchtel College students. Only 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. Beginning with the school year 1914-1915 all teams representing the University will be governed by the rules of the Ohio Conference.

ADMISSION

Each candidate for admission must have had at least a full high school preparation, or college preparatory course, amounting to 15 units and embracing the specific subjects named for college entrance.

No student will be admitted to the freshman class who has an entrance deficiency of more than one unit, or the equivalent of a year's work in one study.

Students coming from other institutions of collegiate rank must furnish certificates of honorable dismissal.

Admission is by examination or on certificate.

In place of entrance examinations the following certificate plans will be accepted :

I. The certificate of principals of approved high schools and academies will admit students to the freshman class on probation, and such statement must be a certification of the specific subjects in which the candidate has passed satisfactory examinations covering the requirements as stated for college entrance. Such certificate must be filed with the Committee on Classification by the candidate on application for entrance. Blank forms for the record of such work will be furnished on application to the President or Secretary of the University.

II. The pass-cards, certificates and academic diploma of the State Board of Regents of New York State for the subjects which they cover will be accepted for college entrance on probation. Such credentials will not, however, be accepted for advanced standing.

Any freshman failing to receive unconditional credit for at least eight term hours at the end of the first semester or of the second semester shall be dropped from the institution, and shall be allowed to re-enter only after passing the entrance examination as specified by the College Entrance Examination Board.

SPECIAL STUDENTS

Students over 21 years of age who have not fulfilled the entrance requirements may be admitted as *special students, not in candidacy for a degree*, to such courses as they are prepared to enter.

ADVANCED STANDING

Students may be admitted to advanced standing on presentation of a certificate of work from an institution of recognized standing, together with a certificate of honorable dismissal.

Applicants for advanced credit, who do not present satisfactory grades from other colleges, shall be examined in the courses in question and receive full credit on the successful passing of such examinations.

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 that it results in a full credit in term hours and also provided that the student shows the ability to carry advanced work.

REGISTRATION

The registration days for the beginning of the school year 1914-1915 will be: Sept. 14 and 15; for the second semester, January 15 and 18.

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.

Candidates for admission to the freshman class are asked to submit a certificate giving details of their High School work as early as possible during the summer preceding entrance to the University. Such certificate should be addressed to the Chairman of the Classification Committee.

Procedure for registration and classification

1. Fill out registration card (main office, Buchtel Hall).

2. Appear before Classification Committee of the school to be entered. New students should have submitted certificate of High School work previously. If this has not been done such certificate must first be presented to the Committee on Entrance.

3. Take classification slip to the Secretary's office, where term bills should be paid.

4. Present classification slip to various instructors at first meeting of class for signature. Give slip to instructor who is last to sign.

GENERAL REGULATIONS

Unit of Instruction—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 Co-operative Engineering.

Change of Course—No student is allowed to drop a study after the opening of a semester nor to enter a new course without the consent of the Committee on Classification.

Required Studies—No student is allowed to postpone a required study or take a study in place of those prescribed, without permission from the Classification Committee.

Failure in Examination—In case of a failure in term examinations the student may have one trial in private examination within two weeks; if he fails in this the subject must be taken over in class in order to obtain credit.

Grades—The scale of grades is as follows: E—90-100; G—80-89; F—70-79; P—70 (passing); D—failed.

*RULES GOVERNING ABSENCES AND CONDITIONS**(In effect the first day of the term)*

Class Absences—Any student having an unexcused absence in any subject shall have five per cent. deducted from his final term grade in that subject for such unexcused absence.

Any student having excused absences in any subject shall have two per cent. deducted from his final term grade in that subject for every such excused absence. This rule, however, shall not be enforced if such absence be explained on the ground of illness by written statement of physician or parents, or if it be excused by the Faculty on written petition by the student.

Three tardinesses shall be counted as equivalent to one absence.

No student shall be excused immediately before or after any recess except by vote of the Faculty. Excuses must be presented to the instructor of the course in which the absence occurs on the *first* reappearance of the student in class.

Any work lost by reason of absences and all omitted written work, laboratory work, tests and examinations must be made up as directed by the instructor.

Assembly Absences—Absences from assembly during any week, in order to be excused, must be explained to the faculty member in charge of assembly absences by Tuesday of the succeeding week or they will stand as unexcused absences. Three unexcused absences from assembly will subject the student to suspension from the University.

Class Conditions—All class conditions incurred previous to the senior year must be made up by the student in a manner satisfactory to the instructor in charge before the end of the first succeeding semester or the subject will have to be taken over in class, or, if elective work, an equivalent credit in term hours may be made in some other course.

Senior Conditions—Students having conditions in subjects taken must remove these by the close of the first month of the last term of the senior year, or they will not be considered candidates for graduation.

RULES REGARDING FAILURE AND CHANGE OF COURSE

Any freshman failing to receive unconditional credit for at least eight term hours at the end of the first semester or of the second semester shall be dropped from the institution, and shall be allowed to re-enter only after passing the entrance examination as specified by the College Entrance Examination Board.

At the time of each report of grades to the office of the Dean, a notice of failure shall be sent to the parents of each student failing in six or more term hours of work, and the student shall be notified by the Dean.

No student will be allowed to drop a study after the opening of a semester, or in any way change his election of studies for any semester without permission of the Committee on Classification.

Election of Subjects in other Schools

No student in the College of Liberal Arts shall be allowed to elect subjects in other schools until all freshman and entrance requirements are satisfied.

Not more than 12 semester hours work elected in other schools, and not catalogued in the Liberal Arts Courses, shall be allowed to apply for graduation in the College of Liberal Arts. 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.

PROMOTIONS

Freshmen will be promoted to the sophomore class whenever they have gained 29 term hours on freshman work and removed all preparatory conditions.

Sophomores will be promoted to the junior class whenever they have gained 61 term hours and removed all freshman conditions.

Juniors will be promoted to the senior class whenever they have gained 96 term hours and removed all conditions.

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 20 of the first semester, or February 10 of the second semester, the fee is \$12.50 per semester. Small fees to cover breakage and materials are also charged to all students in laboratory courses (See various Departments).

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. Small fees to cover breakage and materials are also charged to all students in laboratory courses (See various Departments). If not paid before September 20 of the first semester or February 10 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.

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

Tuition Fee—

For residents of Akron : free.
 For non-residents per semester .

	If paid before Sept. 20 Feb. 10	If paid be- tween Sept. 20 and Nov. 1 or Feb. 10 and April 1
More than 8 hours per week	\$40.00	\$45.00
From 5 to 8 hours per week	25.00	27.50
4 hours or less per week	15.00	17.50

Incidental Fee—

Payable by resident and non-resident students.

	If paid before Sept. 20 Feb. 10	If paid be- tween Sept. 20 and Nov. 1 or Feb. 10 and April 1
More than 8 hours per week	\$10.00	\$12.50
From 5 to 8 hours per week	8.00	10.00
4 hours or less per week	5.00	6.50

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.

Non-resident students, already registered during the school year 1913-1914, will, by special act of the Board of Directors, be allowed to finish their courses on the basis of the rate of tuition charged in that year.

EXPENSES FOR LIVING

Non-resident students at the University of Akron can obtain a good room for \$1.50 to \$2.50 per week. The common price for a single room, occupied by one person, is \$2.00 per week; for a double room, occupied by two persons, \$1.50 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 usual price is from four dollars to five dollars per week.

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 Aid 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, usually, \$100 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.

FACULTY AND INSTRUCTORS

PARKE R. KOLBE, Ph. D.,
President of the University

JOSEPH C. ROCKWELL, Ph. D.,
Professor of Latin and Greek

OSCAR E. OLIN, A. M.,
*Messenger Professor of Economics and Philosophy and
Vice President of the Faculty*

ALBERT I. SPANTON, A. M.,
Pierce Professor of English and Dean of the Faculty

FRANK HAGGERTY, LL. B.,
Director of Physical Education

SIDNEY J. LOCKNER, A. M.,
Ainsworth Professor of Mathematics and Physics

HEZZLETON E. SIMMONS, M. S.,
Buchtel Professor of Chemistry

EMILY RAY GREGORY, Ph. D.,
Professor of Biology

CHARLES BULGER, Ph. B.,
Assistant-Professor of German Language and Literature

CHARLES R. OLIN, M. S.,
Assistant-Professor of Mathematics

FRANK D. STURTEVANT, A. M.,
Assistant-Professor of English

M. ALICE RINES, A. M.,
Assistant-Professor of Romance Languages

LLOYD VAN DOREN, Ph. D.,
Assistant-Professor of Chemistry

BUCHTEL COLLEGE

CHARLES O. RUNDELL, B. S.,
Assistant-Professor of German
 Appointed for 1914-1915

ELIZABETH A. THOMPSON, A. M.,
Assistant-Professor of History and Dean of Women
 Appointed for 1914-1915

CARITA MCEBRIGHT, A. B.,
Instructor in Oratory

DEAN C. OBER, B. S. in E. E.,
Instructor in Mathematics and Physics

K. DOLBEER SMITH, B. S.,
Instructor in Chemistry

CHRISTINE SMITH,
Instructor in Physical Training for Women

ISABEL A. BRADLEY, M. D.,
Medical Examiner for Women

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

Rev. Lotta D. Crosley has established this fund with a gift of \$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 BIRDSELL	.....	Peru
*SAMUEL GRANDIN	.....	Tidioute, Pa.
*N. B. AND A. E. JOHNSON	.....	Mingo
*HENRY AINSWORTH (10)	.....	Lodi

- MR. AND MRS. JOHN MILLER.....Edgerton
- JOHN P. CHAPINNew Philadelphia
- *CHRISTIAN SWANKCreston
- *MRS. S. O. ACOMBTidioute, Pa.
- *MRS. JANE BETZ (2) Hamilton
- *‡MISS HANNAH ALLYNAkron
- *MRS. ROSA G. WAKEFIELDGreen
- *MARTHA A. BORTLE Hamilton
- ‡‡DELIA LORING MORRIS Marietta

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.

Unconditional requirements (all courses) : 15 units.

No student will be admitted to the University who has an entrance deficiency of more than one unit.

A unit is a full year's work in a subject with recitation periods of one hour held four times a week, or 45 minutes held five times a week.

CLASSICAL COURSE.

The candidate must present :

- English (page 40) 3 units
- Mathematics (page 42).....2½ units
- Latin (page 44)..... 4 units
- General History (page 49)..... 1 unit
- Elective (from the subjects on pages 38-39).....4½ units

PHILOSOPHICAL COURSE.

The candidate must present :

English (page 40).....	3 units
Mathematics (page 42).....	2½ units
Foreign Languages (page 44).....	4 units
General History (page 49).....	1 unit
Elective (from the subjects on pages 38-39).....	4½ units

SCIENTIFIC COURSE.

The candidate must present :

English (page 40).....	3 units
Mathematics (page 42).....	3 units
Foreign Languages (page 44).....	4 units
Sciences (page 47) [one unit must be Chemistry or Physics]	2 units
Elective (from the subjects on pages 38-39).....	3 units

In the Philosophical and Scientific Courses 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.

ELECTIVE SUBJECTS.

The elective work for admission to any of the three courses may be made from the following subjects or their equivalents, details of which will be found on the pages referred to:—

Astronomy (page 43).....	½ unit
Botany (page 48).....	1 or ½ unit
Chemistry (page 47).....	1 unit
Civics (page 49).....	½ unit

History, General, 1 or 2 units (page 49)	}	Not more than 3 units
History, English, 1 or ½ unit (page 49)		
History, Advanced U. S., 1 or ½ unit (page 48)		
Physics (page 47)		1 unit
Physical Geography (page 48)		1 or ½ unit
Physiology (page 48)		½ unit
Zoology (page 47)		1 or ½ unit
Language		Not more than 6 units
Domestic Science	}	. . . . . 1 unit
Commercial Law		
Commercial Geography		

Graduates of Manual Training courses in High Schools are allowed a maximum of two units in manual training and mechanical drawing toward entrance to the scientific course.

ENTRANCE AT MID-YEAR.

Students graduating from High Schools in January or February with two or more years of German or four years of Latin may elect from the following subjects if they desire to enter at mid-year.

- Latin 26 (3 h.)
- German 104 (3 h.)
- German 132 (3 h.)
- Hist. of W. Europe 276 (3 h.)
- Federal Govt. 262 (2 h.)
- English 66 (3 h.)
- Chemistry 354 (4 h.)

At the beginning of the following fall the student will be assigned to the regular freshman work of one of the three 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 Units.

The College Entrance Requirements in English, practically uniform throughout the United States, are as follows :

For 1914.

For Study:—Shakespeare's "Macbeth"; Milton's "L'Allegro," "Il Penseroso," and "Comus"; Burke's "Speech on Conciliation with America," or Washington's "Farewell Address" and Webster's "First Bunker Hill Oration"; Macaulay's "Life of Johnson," or Carlyle's "Essay on Burns."

For Reading:—With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units are to be selected, two from each group :

GROUP I.—The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. "The Odyssey," with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII. "The Iliad," with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI. Virgil's "Eneid." ("The Odyssey," "Iliad," and "Eneid" should be read in English translations of recognized literary excellence.) For any unit of this group a unit from any other group may be substituted.

GROUP II.—Shakespeare's "Merchant of Venice," "Midsummer Night's Dream," "As You Like it," "Twelfth Night," "Henry the Fifth," "Julius Cesar."

GROUP III.—Defoe's "Robinson Crusoe," Part I, Goldsmith's "Vicar of Wakefield," Scott's "Ivanhoe" or "Quentin

Durward," Hawthorne's "House of the Seven Gables," Dickens' "David Copperfield" or "Tale of Two Cities," Thackeray's "Henry Esmond," Gaskell's "Cranford," George Eliot's "Silas Marner," Stevenson's "Treasure Island."

GROUP IV.—Bunyan's "Pilgrim's Progress," "The Sir Roger de Coverley Papers" in the Spectator, Franklin's "Autobiography," Irving's "Sketch Book," Macaulay's "Essays on Lord Clive and Warren Hastings," Thackeray's "English Humorists;" Lincoln: Selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's "Oregon Trail," Thoreau's "Walden," or Huxley's "Autobiography" and selections from "Lay Sermons," including the addresses on "Improving Natural Knowledge," "A Liberal Education," and "A Piece of Chalk;" Stevenson's "Inland Voyage" and "Travels with a Donkey."

GROUP V.—Palgrave's "Golden Treasury" (First Series), Books II and III; Gray's "Elegy in a Country Churchyard" and Goldsmith's "Deserted Village;" Coleridge's "Ancient Mariner" and Lowell's "Vision of Sir Launfal;" Scott's "Lady of the Lake;" Byron's "Childe Harold," Canto IV. and "The Prisoner of Chillon;" Palgrave's "Golden Treasury" (First Series), Book IV; Poe's "Raven," Longfellow's "Courtship of Miles Standish," and Whittier's "Snowbound;" Macaulay's "Lays of Ancient Rome" and Arnold's "Sohrab and Rustum;" Tennyson's "Gareth and Lynette," "Lancelot and Elaine," and "The Passing of Arthur;" Selections from Browning.

Equivalent readings may be accepted at the option of the instructor.

Students 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 to the

work. They should also bring note-books or any other evidences of the work done.

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

MATHEMATICS AND ASTRONOMY.

Arithmetic, Algebra and Plane Geometry are required for entrance into all courses. Solid Geometry is required for entrance to the scientific course. Astronomy may be offered as one of the electives in any course, but it is required in none.

Arithmetic.

A thorough, practical acquaintance with Arithmetic is a prerequisite for all work in Mathematics. Accuracy and rapidity in using the four fundamental operations, addition, subtraction, multiplication, and division, upon decimal and common fractions as well as upon whole numbers, is required. It is desirable that the student shall have studied a book that makes some use of algebraic symbols.

Algebra, 1 1/2 Units.

The work in Algebra should include the following subjects: fundamental operations, factors, multiples, fractions, simple equations, methods of elimination, problems, interpretation of solutions, involution, evolution, surds, exponents, complex numbers, quadratic equations, theory of quadratic equations, simultaneous quadratics, binomial theorem for positive integral exponents, ratio, proportion, variation, series and logarithms.

It is suggested that the time spent in preparing to meet this requirement be five 55-minute periods per week for a

year and a half. It is further suggested that the work of the last half-year be done late in the preparatory school course in order that there may be close and ready articulation with the required mathematics of the freshman year in college. It is especially desirable that the student come to his college work with habits of neatness and accuracy well formed, and that he have some sense of mastery over so much of mathematics as he may have studied.

Geometry, 1 1/2 Units.

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 measure of the circle, the relation of lines and planes in space; the properties and measure of prisms, pyramids, cylinders, and cones; the sphere, and the spherical triangle.

From the demonstration of many original propositions and the solution of many original problems, the student should have gained a fair degree of confidence in his own ability to build up a geometrical proof. Accuracy of statement and elegance of form are to be emphasized.

It is suggested that the time spent in preparing in Geometry be one and one-half school years, and that the work of the last half-year come in the third or fourth year of the preparatory course.

Astronomy, 1/2 Unit.

A thorough knowledge of the fundamental facts and principles of Astronomy is required. Familiarity with so much of the science as is contained in Young's Elements of Astronomy will suffice.

FOREIGN LANGUAGES.

Latin. 1, 2, 3 or 4 Units.

Four units of at least four recitations a week are required for entrance to the Classical Course. One, two, three, or four units may be offered for entrance in the Scientific or Philosophical courses, subject to the requirement that at least two units must be offered in some one foreign language.

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.

One or two years of Greek may be offered for entrance.

First Year. Beginners' Lessons in Greek.

Second Year. Xenophon's Anabasis.

German, 1, 2, 3 or 4 Units.

One, two, three or four years of German may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used, and time spent. No stu-

dent will be allowed to enter a higher course than German 104 without examination or personal conference with the instructor in charge of the German Department.

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 and 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, although a less number may be presented if such difficult works as Faust have been attempted. In addition the candidate should have a thoro 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.

One, two, three or four years of French may be offered for admission to the Scientific or Philosophical courses. Candidates must present from former teachers a full statement of work covered, texts used, and time spent. No student will be allowed to enter a higher course than French 154 without examination or personal conference with the instructor in charge of the French Department.

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 writ-

ing 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.

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 per 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.

To count for one unit, the course should extend throughout a year of 36 weeks, four times per week, reciting at least 45 minutes. One-fourth should be laboratory work in dissections and drawings. Drawings and notes should be pre-

sented to show the nature of the work done. Davenport or any good elementary text.

Botany. 1/2 or 1 Unit.

If offered for one unit, it should consist of thirty-six weeks of work, four times per week, at least one-fourth of which should be of the nature of field or experimental work and dissections. Andrew's or Bergen's Botany. Note-book required.

Physiology. 1/2 Unit.

Only work done above the grades will count for entrance. It should consist of eighteen weeks' work, four times per week, of at least 45-minute periods each. Not less than about twenty hours of laboratory work, of dissections, drawings, and experiments should be offered. Martin's Human Body (briefer course) revised by Fitz is recommended as a good text.

Physical Geography or Physiography. 1/2 or 1 Unit.

Four 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-book required.

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

HISTORY AND CIVICS.

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

One year's work with any approved High School text book.

General History. 1 or 2 Units.

The equivalent of one or two years' work in Ancient and Modern History, using any approved High School or Academy text.

English History. 1/2 or 1 Unit.

One year's work in High School or Academy, using any standard text.

Civics. 1/2 Unit.

One half-year's work in Civil Government. Only High School or Academy work accepted.

COURSES OF STUDY.

Three courses of study, each requiring 128 semester hours for graduation, are offered in Buchtel College: the Classical, Philosophical and Scientific (for terms of admission to these courses see page 37.)

The studies of the freshman year are definitely assigned and required in each course. 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, as indicated in the description of the various courses of study. All major and minor work must be beyond the student's freshman requirements. Twenty-four semester hours above the freshman year is the minimum requirement for a major, a semester 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. THE CLASSICAL COURSE.

Freshman Year (required).

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Greek 1.....	4	Greek 2	4
Latin 25	3	Latin 26	3
Mathematics 301	4	Mathematics 302	4
*Chemistry 353, or	4	or English 66.....	3
Chemistry 351, or.....	4	*Chemistry 354, or	4
Zoology 401	4	Chemistry 352, or.....	4
Rhetoric 51	2	Botany 414	4
		Rhetoric 52	2

*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 Zoology 401 and Botany 414.

MAJORS IN THE CLASSICAL COURSE.

(To be chosen at the end of the freshman year.)

Major Subjects.

1. In Greek.

Twenty-four term hours of Greek above the freshman requirements constitute a major in Greek. The History of Greek Sculpture will count toward this major.

(See page 61).

2. In Greek and Latin.

Of the twenty-four term hours necessary for this major, twelve term hours at least must be in the Greek language above the freshman year.

Required Minor Subjects.

Term Hrs.

English	7
Science	6
Philosophy, or Logic and Economics	6

II. THE PHILOSOPHICAL COURSE.

Freshman Year (required).

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
German	at least 3 hours	German	at least 3 hours
Latin 25	3	Latin 26	3
or French 151	4	or French 152	4
Mathematics 301	4	Mathematics 302	4
*Chemistry 353, or	4	or English 66	3
Chemistry 351, or	4	*Chemistry 354, or	4
Zoology 401	4	Chemistry 352, or	4
Rhetoric 51	2	Botany 414	4
		Rhetoric 52	2

*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 Zoology 401 and Botany 414.

MAJORS IN THE PHILOSOPHICAL COURSE.

(To be chosen at the end of the freshman year.)

Major Subjects.

1. In German.
Twenty-four hours required above freshman work.
2. In Romance Languages.
Twenty-four hours required above freshman work.
3. In English Literature.
Twenty-four hours required above freshman work.
4. In Philosophy and Economics.
Twelve hours each.
5. In Economics and History.
Twelve hours each.
6. In History and Philosophy.
Twelve hours each.

Required Minor Subjects

For Major in German or Romance Languages:

	Term Hrs.
English	7
Science	6
Philosophy, or Logic and Economics.....	6

For Major in English Literature:

	Term Hrs.
Science	6
English History	6
Philosophy, or Logic and Economics.....	6

For Major in Philosophy and Economics, in Economics and History or in History and Philosophy:

	Term Hrs.
Science	6
English	7
Foreign Language	6

III. THE SCIENTIFIC COURSE

Freshman Year (required)

First Semester	Term Hrs.	Second Semester	Term Hrs.
Rhetoric 51	2	Rhetoric 52	2
German.....	at least 3	German.....	at least 3
Mathematics 301	4	Mathematics 302	4
*Chemistry 353, or	4	*Chemistry 354, or	4
Chemistry 351, or	4	Chemistry 352, or	4
Zoology 401	4	Botany 414	4
Mechanical Drawing 331.....	4	Descriptive Geometry 332.....	4
or French 151	4	or French 152	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 Zoology 401 and 414.

MAJORS IN THE SCIENTIFIC COURSE.

(To be chosen at the end of the freshman year.)

Major Subjects.

1. In Chemistry.
Twenty-four hours above the freshman year.
2. In Physics.
Twenty-four hours.
3. In Mathematics and Physics.
Calculus, ten hours.
Surveying, two hours.
Physics, twelve hours.
4. In Biology.
Twenty-four hours above the freshman year.

Required Minor Subjects.

For Major in Chemistry:

	Term Hrs.
English	7
Biology	8
Philosophy, or Logic and Economics	6
Physics	12

For Major in Physics:

	Term Hrs.
English	7
Biology	8
Philosophy, or Logic and Economics	6
Chemistry	12

For Major in Mathematics and Physics:

	Term Hrs.
English	7
Science	6
Mod. Lang., or Philosophy, or Economics and Logic.....	6

For Major in Biology:

	Term Hrs.
English	7
Chemistry or Physics	6
Philosophy, or Logic and Economics	6

DEGREES

The degree of Bachelor of Arts will be conferred on students who have completed the Classical Course.

The degree of Bachelor of Philosophy will be conferred on those who have completed the Philosophical Course.

The degree of Bachelor of Science will be conferred on those who have completed the Scientific Course.

A thesis showing original research by the student may be presented for graduation. Credit in term hours will be allowed for such work if accepted by the Department to which it is presented.

Master's Degree

The degree of A. M. may be conferred upon those who have acquired the degree of A. B. or Ph. 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 under-graduate, 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.

REGULATIONS ON COURSE OF STUDY

1. Required for degree, 128 term hours; one term hour meaning one recitation or at least two hours of laboratory work per week for one semester.
2. The graduating thesis, if presented, 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.
3. Sixteen hours a semester are counted full work for a student.

4. No student is allowed to take more than 18 hours nor less than 14 hours a week without consent of the Faculty.

5. Students to be allowed to take more than 18 hours of work must have made an *E grade in at least three-fourths of their work the previous year. No student will be allowed to take more than 20 hours of work in any semester.

6. No credit will be given toward graduation for less than a full year's work in beginning languages, and first year chemistry.

7. To prevent an aimless dissipation of time and energy each student is required to choose, at the beginning of the sophomore year, his **major** group of studies with its required minors. The professor of the department in which the major is given will be the personal adviser of the student choosing that **major** in planning the remainder of his course.

8. No student is allowed to drop a study after the opening of a semester without the consent of the Committee on Classification.

9. No student will be allowed to postpone a required study, or take a study in place of those prescribed, without permission of the Classification Committee.

10. No student will be allowed to change his election of studies for any semester without permission of the Committee on Classification.

Students are advised to take fundamental studies early in the course, i. e., in the sophomore year,—such studies as are required in preparation for further work; also to follow lines of work rather than isolated studies.

11. In case of failure in term examinations, the student may have one trial in private examination within *E—90 per cent. or above.

two weeks; if he fails in this the subject must be taken over in class, or the grade made in some equivalent course.

12. The thesis for graduation, if presented, shall be handed to the instructor in charge on or before the beginning of the senior vacation.

FEES

For general statement see page 28. 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 343 and 344 each	\$ 2.50
Botany 413 and 414 each	2.50
Zoology 401 and 403 each	2.50
Embryology 404	2.50
Physiology 407 and 408 each	3.50
Histology 411 and 412 each	3.50
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, will 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 and Geology	401-450
Physical Training	

SUBJECTS OF INSTRUCTION

	PAGE		PAGE
Analytical Mechanics ...	94	Hygiene	103
Astronomy	90	Latin	61
Botany	100	Logic	83
Chemistry	96	Mathematics	87
Classical Archeology....	60	Mechanical Drawing ...	91
Classical Mythology	61	News Writing	66
Dynamos and Motors... 96		Physical Training.....	103
Economics	84	Physics	93
Embryology	101	Physiology	102
English Language and Literature.....	67	Political Science	84
Ethics	82	Psychology	81
French	79	Public Speaking	70
Geology	90	Rhetoric	64
German	72	Sociology	84
Greek	59	Spanish	81
Greek Sculpture	60	Steam and Gas Engines. 95	
Histology	102	Strength of Materials... 94	
History	86	Surveying	89
Hydraulics	95	Zoology	100

GREEK.

PROFESSOR ROCKWELL.

Major: The elective courses in Greek are 3 to 6. Twenty-four hours elected above freshman year constitute a major, in Greek. Courses in Classical Archeology 17, 18 will count towards a major.

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.

Courses 1 and 2 will count for college credit.

In the advanced courses the great masterpieces of prose and poetry are studied in their proper historical and literary setting, and the effort will be made during the three years' rotation of courses for the student to become more thoroly acquainted with the lives and works of a small number of selected authors. As far as is admissible, some attention is given in connection with the regular work to Greek Private Life.

1. *Goodwin's Greek Grammar and Xenophon's Anabasis*—
(*First Semester.*)
M., Tu., W., Th., 10:15. (Four term hours.)
2. *Xenophon (Anabasis, 3 books.)*—(*Second Semester.*)
M., Tu., W., Th., 10:15. (Four term hours.)
3. *Homer (Iliad Selections.)*—(*First Semester.*)
M., W., F., 7:30. (Three term hours.)
4. *Homer (Iliad Continued): (New Testament Greek.)*—
(*Second Semester.*)
M., W., F., 7:30. (Three term hours.)
5. *Plato (Apology and Crito); Homer (Odyssey Selections.)*—(*First Semester.*)
M., W., F., 7:30. (Three term hours.)

6. *Demosthenes (De Corona.)—(Second Semester.)*
M., W., F., 7:30. (Three term hours.)
7. *Sophocles (Oedipus Rex.)—(First Semester.)*
M., W., F., 7:30. (Three term hours.) Not given
1913—1914.
8. *Thucydides (Book VI); Aristophanes Birds (with special reference to Greek Private Life.)*
M., W., F., 7:30. (Three term hours.) Not given
1913—1914.

CLASSICAL ARCHEOLOGY.

PROFESSOR ROCKWELL.

These courses are open to all students above the freshman year. Courses 17 and 18 will count toward a major in either Greek or Latin.

17. *History of Greek Sculpture.—(First Semester.)*
Tu. Th., 7:30. (Two term hours.) Not given 1914
—1915.

This has been planned as a general course and will not require work in Greek or Latin. It will consist largely of lectures. There will be a short introduction setting forth the relation of Greek Art to the Art of Egypt, Assyria and Phœnicia, and this will be followed by a discussion of the various periods and schools of Greek Sculpture and the more important artists. The subject will be illustrated by photographs and lantern-slides. Richardson's Greek Sculpture will be made the basis of the course, and some collateral reading in histories of art will be required. The ability to read German, though not absolutely necessary, will be decidedly advantageous. Note-books of the students will be examined by the instructor from time to time.

18. (*Second Semester.*)
 Tu., Th., 7:30. (Two term hours.) Continuation of
 Course 17. Not given 1914—1915.
19. *Classical Mythology.—(First Semester.)*
 Tu., Th., 7:30. (Two term hours.)
- A careful study will be made of the Greek myths and also
 how they are represented in vase paintings and in sculpture.
 Special reference will be made to the use of these myths in
 English poetry.
20. *General course in Classical Archeology.—(Second
 Semester.)*
 Tu., Th., 7:30. (Two term hours.)

LATIN.

PROFESSOR ROCKWELL.

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

The elective courses are 27, 28, 31 to 34, 37 and 38.

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

The following arrangement of courses is suggested:

Sophomore year: Latin 27 and 28 (six hours.)

Junior year: Latin 31 and 32 (six hours), and one lec-
 ture course, 37 and 38 (four hours.)

Senior year: Latin 29 and 30 (six hours), and one lec-
 ture course, 35 and 36 (four hours.)

The remaining hours may be taken in a lecture course, the
 History of Greek Sculpture, or Latin Prose Composition.

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., 8:25. (Three term hours.) Required of classical freshmen.

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., 8:25. (Three term hours.) Required of classical freshmen.

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

M., W., F., 11:10. (Three term hours.) Courses 27 and 28 are open to students who have completed 25 and 26.

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

M., W., F., 11:10. (Three term hours.)

29. *Cicero (De Officiis, Selections.)*—(*First Semester.*)

Tu., Th., S., 8:25. (Three term hours.) Open to students who have completed 27 and 28. Not given 1914—1915.

30. *Virgil (Eclogues and Georgics, Selections.)*—(*Second Semester.*)

Tu., Th., S., 8:25. (Three term hours.) Not given 1914—1915.

31. *Suetonius.*—(*First Semester.*)
Tu., Th., S., 8:25. (Three term hours.)
32. *Horace Satire and Juvenal, Selections.*—(*Second Semester.*)
Tu., Th., S., 8:25. (Three term hours.)
33. *Latin Prose Composition.*—(*First Semester.*)
F., 10:15. (One term hour.)

During the first half-year a systematic study will be made of the Latin sentence and paragraph, but in the second half-year there will be the translation into Latin of connected passages of classic English.

34. *Latin Prose Composition.*—(*Second Semester.*)
Continuation of Course 33.
35. *History of Roman Literature.*—(*First Semester.*)
Tu., Th., 11:10. (Two term hours.) Not given
1914—1915.

First there will be a short survey of the laws in accordance with which the Latin language developed. Then the different forms and periods of Roman literature will be set forth by lectures. These will be supplemented by class readings from different authors.

36. *History of Roman Literature.*—(*Second Semester.*)
Continuation of Course 35. Not given 1914—1915.
37. *Roman Private Life and Social Institutions.*—(*First Semester.*)
Tu., Th., 11:10. (Two term hours.) Prerequisite:
Latin 25 and 26.

A course of lectures supplemented by some collateral reading of original and secondary authorities. Special subjects will be assigned for investigation.

38. *Roman Private Life and Social Institutions.*—(Second Semester.)

Continuation of Course 37.

39 and 40. *Vocational Course.*—*The teaching of Latin.*—
—(Throughout the year—two term hours.)

This course is given alternate years. It includes lectures on the different methods (German, English, American) of teaching Latin, discussions of the different beginner's books, and the principles and characteristics of the leading Latin Grammars. Practical exercises are given based on the authors read during the course.

41. *Roman Law.*—(Two term hours—time to be arranged.)

This course treats more especially of the law of things. A careful study is made of the terminology and of the extent to which the present American Law is based upon the Roman rather than upon the English Common Law. Prerequisite: Latin 25 and 26.

ENGLISH.

PROFESSOR SPANTON.

ASSISTANT-PROFESSOR STURTEVANT.

ASSISTANT-PROFESSOR THOMPSON FOR 1914-15.

RHETORIC.

ASSISTANT-PROFESSOR STURTEVANT.

ASSISTANT-PROFESSOR THOMPSON.

51. *Freshman Rhetoric.*—(First Semester.)

Section a, Tu., Th., 7:30; Section b, Tu., Th., 10:15;

Section c, M., F., 11:10. (Two term hours.)

Required of all freshmen. A thorough review of the principles of style. Two themes each week. Monthly read-

ing of short stories. Frequent conferences with instructors in regard to work in composition. At the end of the first semester, any student whose work proves to be defective in the elementary, but important, details covered by this course will not be allowed to pursue Course 52.

52. *Freshman Rhetoric.*—(*Second Semester.*)

Section a, Tu., Th., 7:30; Section b, Tu., Th., 10:15;
Section c, M., F., 11:10. (Two term hours.)

Required of all freshmen. The forms of prose discourse, especially narration, description, and exposition. Weekly themes. Much higher grade of work than that done in Course 51 insisted upon. Clearness and effectiveness of expression emphasized. Conference work continued. Reading of selected novels and modern plays. Text-book: Some collection of prose selections illustrating the forms of discourse.

53. *Argumentation.*—(*First Semester.*)

Tu., Th., 11:10. (Two term hours.)

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. Weekly debates upon practical questions submitted by the members of the class. No student is excused from debating, and reading from manuscript is not allowed. Text-book: Cushing's Manual of Parliamentary Practice (Revised edition).

54. *Argumentation.*—(*Second Semester.*)

Required of all sophomores. Continuation of Course 53. Study of correct form for resolutions and reports. The drafting of a Constitution and By-laws. Careful study of the principles of argumentation. Weekly debates as in the

first semester, but much more thorough and more finished work is demanded.

55. *Advanced Composition.—(First Semester.)*

(Two term hours.)

Required of all students taking a major in English. Prerequisite: Courses 51, 52, 53, 54. 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 given 1914-1915.)

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 given 1914-1915.)

59. *News Writing.—(First Semester.)*

S., 7:30. (Two term hours.)

Recitation and practice work. A practical course in the characteristics of news style, in the writing of the lead, and in the most effective arrangement of material within the "story." As far as time permits, the student will do actual reporting on a "beat" assigned to him.

60. *News Writing.—(Second Semester.)*

Continuation of 59.

Writing of heads, special articles, reviews, and editorial articles. Practice work as in course 59, and in the effective arrangement of the news stories upon the printed page. The purpose of courses 59 and 60 is not to make the student a finished reporter, but to give him an appreciation of the demands of the profession of journalism, and to prepare him best to meet them.

LANGUAGE AND LITERATURE.

PROFESSOR 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 unless they have had a course in the history of English literature at high school, in which case they will take American Literature 75 and 76.

Majors. The minimum for a major in English Literature is twenty-four term hours. Students choosing a major in English Literature must elect Courses 55 and 56 in Advanced Composition.

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.

All students taking their majors in English Literature are recommended to elect, in the sophomore year if possible Doctor Rockwell's course in Classical Mythology. (See Course 19.)

65. *General Introduction to English Literature—(First Semester.)*

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

The work includes:

(a) The history of English Literature. Text-book: Long's English Literature. Students will find other text-

books helpful—Brooke, Pancoast, Simonds, Halleck, Johnson, Moody and Lovett. Especially valuable for supplementary reading is Green's Shorter History of the English People.

(b) The reading of masterpieces illustrating literary types and representing the main movements in English Literature. Much reading is required; still more is recommended. Text-book: Newcomer and Andrews' Twelve Centuries of English Prose and Poetry.

66. *General Introduction to English Literature.*—(Second Semester.)

Section a, M., W., Th., 9:20, for freshmen who do not elect Mathematics; Section b, M., W., F., 10:15, for sophomores. (Three term hours.)

A continuation of 65. Courses 65 and 66 cover in outline the entire field of English Literature, and they or their equivalent must precede the more advanced courses.

67. *Chaucer.*—(First Semester.)

M., W., F., 8:25. (Three term hours.)

A close study of the best of the Canterbury Tales, and a rapid reading of some other portions of Chaucer's work.

68. *Word Study.*—(Second Semester.)

M., W., F., 8:25. (Three term hours.)

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Students who have had but little Latin and Greek will find this course very helpful. Text-book: Greenough and Kittredge's Words and Their Ways.

69. *Shakespeare.*—(First Semester.)

M., W., Th., 9:20. (Three term hours.)

A general study of the English drama to the death of Shakespeare. Twenty or more of Shakespeare's plays are read; also the tragedies of Marlowe, and selections from the works of other predecessors and early contemporaries of Shakespeare.

71. *The English Bible as Literature.*—(First Semester.)

M., W., F., 8:25. (Three term hours.) Not given 1914—1915.

To the student of literature the Bible has a two-fold interest, entirely apart from its religious value: (1) It is itself noble literature; (2) It has influenced the literature of the English-speaking world more profoundly than has any other book. The object of this course is to help the student to see the beauty and the power of the Bible as literature—its narrative, its oratory, its exposition, its poetry and song.

72. *English Prose of the Nineteenth Century.*—(Second Semester.) Not given 1914—1915.

M., W., F., 8:25. (Three term hours.)

A study of selections from the great prose writers, exclusive of writers of fiction; especially Macaulay, Lamb, DeQuincey, Carlyle, Ruskin, Newman, Arnold.

73. *English Poetry of the Nineteenth Century.*—(First Semester.)

M., W., F., 11:10. (Three term hours.)

Studies in Wordsworth, Coleridge, Scott, Byron, Shelley, Keats.

74. *Continuation of Course 73.*—(Second Semester.)

Studies in Tennyson, the Brownings, Arnold, Landor, Clough, Rossetti, Morris, Swinburne.

75. *American Literature.—(First Semester.)*

Tu., Th., 8:25. (Two term hours.)

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.)*

A continuation of Course 75.

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

79. *Prose Fiction.—(First Semester.)*

M., W., 7:30. (Two term hours.)

The development of prose fiction to 19th century. Study of the evolution of the novel as a distinct literary type as illustrated in the stories popular in Saxon, Medieval, Elizabethan, Puritan, and Restoration Periods. The 18th century novel. Reading of important works.

80. *Prose Fiction.—(Second Semester.)*

Continuation of Course 79.

Study of 19th and 20th century fiction with special emphasis upon the work of living writers.

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 man-

ner of speech, are all valuable assets in the business, educational and social world. "Tune your heart, mind and voice for public service."

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

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

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.)*

Tu., Th., 11:10. (Two term hours.)

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

94. *(Second Semester.)*

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

95. *Dramatic Study (First Semester.)*

Time of reciting to be arranged when class meets.
(One term hour.)

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. Nothing but productions worth study and effort are permitted.

96. (*Second Semester.*)

Course 95 continued.

Instruction will be given those students who enter the Oratorical and Prize Speaking Contests.

GERMAN LANGUAGE AND LITERATURE.

PRESIDENT KOLBE.

ASSISTANT-PROFESSOR BULGER.

On leave of absence 1914-1915.

ASSISTANT-PROFESSOR RUNDELL.

MISS SCHMIDT.

The object of this department is to enable the student to acquire rapidly a practical knowledge of German. Special attention is given to pronunciation and the training of the ear for the sounds of the German language. The German language is used in the class room as the medium of teaching. This method consistently pursued during a four-years' course, not only guarantees to the faithful student an accurate and comprehensive knowledge, furnishing the key to the vast field of German literature, but it recognizes also the practical claims of the German language in a country where millions of German-speaking people live, where business relations and demands, in their various forms, call for an actual and practical use of this language, and where, therefore, this language, above all, should become, as far as possible, a living language in the mouth of the student. In thus combining theory with practical work it is thought that the greatest good will come to the student in the pursuit of the German language through the means indicated.

The following course is suggested as the proper order in which a major in German should be taken by those who enter unprepared in this language. For those who have

studied modern languages in secondary schools, a personal conference with the instructor will be found necessary in planning major work.

Requirements for German Major.

A minimum of 24 term hours *above* the freshman year constitutes a major. The following courses are required for a major and must be included: 105, 106, 111, 112 and at least two semesters' work to be selected from the following courses: 107, 108, 115, 116, 123.

Order of Courses.

Students Beginning German in College should take the introductory courses in the following order:

Freshman Year.

Courses 101 and 102.

Sophomore Year.

Courses 103 and 104.

Courses 105 and 106.

(Students whose work in the first year has been graded below G are advised to defer Courses 105 and 106 until the third year.)

The advanced courses may be selected as follows:

Course 104 admits to 105, 108, 115 and 119.

Course 106 admits to 108, 115 and 119.

Course 108 (or 116 or 124) admits to 117.

Course 110 admits to 115, 117 and 119.

Students presenting German from Secondary Schools are admitted as follows:

Those presenting one year are advised to enter 101.

Those presenting two 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 Semester.*)(a) M., W., Th., S., 9:20. (b) M., W., F., S., 11:10.
(Four term hours.)*Beginners' Course.*

Joynes-Meissner's Shorter German Grammar; written grammar exercises from English into German. Stories and poems. Simple conversation. Students with one or more years of secondary school German may elect this course but will receive only half credit (2 hours).

102. (*Second Semester.*)(a) M., W., Th., S., 9:20. (b) M., W., F., S., 11:10.
(Four term hours.)*Beginners' Course.*

Review of grammar; rapid oral translation of English sentences into German; Storm's Immensee, Hillern's Hoeheralts die Kirche or Gerstaecker's Germelshausen.

103. (*a) (First Semester.)*

M., W., F., 8:25. (Three term hours.)

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 easier prose or poetical works. Students with two years of secondary school German must elect this course or 103 b.

104. (*a) (Second Semester.)*

M., W., F., 8:25. (Three term hours.)

Course 104 carries out in the second semester the work of Course 103. An easier classic, such as Wilhelm Tell, may be attempted.

103. (b) (*First Semester.*)

M., W., F., 11:10. (Three term hours.) A parallel course to 103 a, with equivalent work.

104. (b) (*Second Semester.*)

M., W., F., 11:10. (Three term hours.) A parallel course to 104 a, with equivalent work.

105. (*First Semester.*)

Tu., Th., 7:30. (Two term hours.)

The work of this course is intended primarily for those who have completed courses 101 and 102 (with a grade no lower than G), or courses 103 and 104. The work will consist of lectures, dictated in German, on the history of German literature, and of a review of Joynes-Meissner's Grammar.

106. (*Second Semester.*)

Tu., Th., 7:30. (Two term hours.)

The nature of this course is the same as that of course 105. For the grammar review of course 105 a study of German history will be substituted.

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

Tu., Th., 8:25. (Two term hours.)

Pre-requisite: 105 or 131.

130. (*Second Semester.*)

Continuation of 129.

131. (*First Semester.*)

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

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 translation.

132. (*Second Semester.*)

A continuation of course 131.

ADVANCED COURSES.

First Semester.

1914—1915.

123. *Lessing*. M., W., Th., at 9:20. Prerequisite: Course 104.

A study of his life and a limited number of selected dramas.

1915-1916	107. M., W., Th., at 9:20. Prerequisite: Course 104. Goethe's Youth.
1916-1917	115. M., W., Th., at 9:20. Prerequisite: Course 104. Schiller's early dramas.

Second Semester.

1914-1915.

124. *Post Classical Writers*. M., W., Th., at 9:20. Prerequisite as for course 123.

The work of the semester will be devoted to the successors of the classical period with reading from their works.

1915-1916	108. M., W., Th., at 9:20. Prerequisite: As for 107. Goethe in Weimar.
1916-1917	116. M., W., Th., at 9:20. Prerequisite: As for Course 115. 115. A continuation of the work of Course 115.

First Semester.

1914—1915.

109. *Modern German Literature*. M., W., F., at 10:15. Prerequisite: Course 106, 108 or 131.

This course is intended to develop an ability to read modern German easily and rapidly and to converse.

1915-1916	117. Goethe's Faust. M., W., F., at 10:15. Prerequisite: Any one of the following 108, 118, 115, 123, 111. Only juniors and seniors may elect this course.
1916-1917	109. M., W., F., at 10:15. As described for 1914-1915.

Second Semester.

1914—1915.

110. M., W., F., at 10:15. Prerequisite: as for Course 109. A continuation of Course 109.

1915-1916	118. M., W., F., at 10:15. Prerequisite. As for 117. Modern Drama. Rapid reading and discussion of selected works.
1916-1917	110. M., W., F., at 10:15. As described for 1914-1915.

First Semester.

1914-1915.

111. *History of German Literature.* Tu. and Th., at 8:25. Prerequisite: Course 116 or 118.

Interpretation of early texts from translations with particular view to their literary value. A study of the great literary movements of the middle ages. Texts: Kluge, Vogt und Koch.

1915-1916.	119. Tu. and Th., at 8:25. Prerequisite: Course 104 or 131. A Study of German life and customs.
1916-1917	111. Tu. and Th., at 8:25. As described for 1914-1915.

Second Semester.

1914-1915.

112. Tu. and Th., at 8:25. Prerequisite: Course 111. A continuation of the work of 111.

1915-1916

120. Tu. and Th., at 8:25. Prerequisite: As for 119. Advanced theme writing and conversation.

1916-1917

112. Tu. and Th., at 8:25. As described for 1914-1915.

First Semester.

1915—1916.

125. *German Seminar*. Tu. at 10:15. For advanced students only. Personal application must be made to the instructor.

Goethe and Schiller. A study of their lives with special attention to their influence upon one another.

1915-1916

113. Tu. at 10:15. For advanced students only. Personal application must be made to the instructor. *German Teachers' Course*. Theories and methods of teaching German. Criticism of grammars and texts. Elements of Phonetics.

1916-1917

121. For advanced students only. Time will be arranged when the class meets. Gothic. (Two term hours.)

127. Tu. at 10:15. For advanced students only. Old High German.

Second Semester.

1914-1915.

126. Tu. at 10:15. Prerequisite: 125. A continuation of 125.

1915-1916

114. Tu. at 10:15. A continuation of the work of 113.

1916-1917

122. Tu. at 10:15. Middle-High German.

128. A continuation of 127, but for two term hours. Time for meeting of class will be arranged.

FRENCH.

ASSISTANT-PROFESSOR RINES.

- 151a. (*First Semester.*)
M., W., Th., S., 9:20. Fraser and Squair's French Grammar. Reader, François and Giroud's Simple French.
- 152a. (*Second Semester.*)
M., W., Th., S., 9:20. Fraser and Squair's French Grammar continued. Labiche and Martin's Voyage de M. Perrichon. Dictation, memorizing and conversation.
- 151b. (*First Semester.*)
M., W., F., S., 10:15. The course is a duplicate of 151a.
- 152b. (*Second Semester.*)
M., W., F., S., 10:15. The course is a duplicate of 152a.
153. (*First Semester.*)
M., W., F., 7:30. Fraser and Squair's Grammar, Part II. Selected readings.
154. (*Second Semester.*)
Continuation of 153. Grammar work continued. Moliere's Le Bourgeois Gentilhomme and L'Avare.
155. (*First Semester.*)
The Short Story in French literature. Daudet, Coppee, Gauthier, Bazin, de Maupassant. Not given in 1914-1915.
156. (*Second Semester.*) Course 155 continued. Not given 1914-1915.

157. (*First Semester.*)
Tu., Th., 8:25. Modern prose and poetry.
158. (*Second Semester.*)
Course 157 continued.
159. (*First Semester.*)
Tu., Th., 7:30. Study of the Classic Period. Plays of Corneille selected from *Le Cid*, *Horace*, *Cinna*, *Polyeucte*, *Le Menteur*.
160. (*Second Semester.*)
Course 159 continued. Plays of Racine; *Phedre*, *Andromaque*, *Esther*.
161. (*First Semester.*)
The plays, novels and poems of Victor Hugo. Study of his times. Not given in 1914-1915.
162. (*Second Semester.*)
Course 161 continued. Not given in 1914-1915.
163. (*First Semester.*)
Tu., Th., 11:10. History of France studied and recited in French.
164. (*Second Semester.*)
Course 163 continued.
165. (*First Semester.*)
French Diary. 150-200 words in French to be entered daily in notebook. (Bi-weekly half hour conferences with the instructor. No class room work. One term hour).
166. (*Second Semester.*)
Course 165 continued.

SPANISH.

ASSISTANT-PROFESSOR RINES.

171. (*First Semester.*)
M., W., F., 11:10. Hills and Ford's Spanish Grammar. Harrison's Elementary Spanish Reader.
172. (*Second Semester.*)
Course 171 continued.

MENTAL AND MORAL PHILOSOPHY.

PROFESSOR O. E. OLIN.

Major: Philosophy may be combined for two majors, Philosophy and Economics, and Philosophy and History, twelve term hours required in each subject.

201. *Psychology.*—(*First Semester.*)
M., W., F., 8:25. (Three term hours.) 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. From time to time such topics as Habit, Memory, Imagination, Illusion, Hallucination, and Alternating Personality are assigned, and the student is referred to authorities in the library and expected to write papers which are read and discussed in the class, the purpose being to familiarize the student with the library method of study and investigation, and to stimulate him to think for himself. Original problems in observation are worked out by the students, reports discussed in class and note-books kept.

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. (Three term hours.) 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. Text-books are used as guides, but the aim is to encourage individual research and original thought; to that end, topics are assigned at intervals during the course, and students are referred to a library of wide and well chosen reference books. Papers are written and discussed on the doctrine and influence of such men as Socrates, Plato, Kant, Berkeley, and others, and on the systems of thought advanced by the Stoics, Epicureans, Cynics, and Ascetics. The theoretical bearing of the contemporaneous problems of Education, Charities, Penology, Temperance, and Sociology is introduced and the fullest discussion invited.

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. The object of this course is to lead the student carefully to observe the phenomena of Nature, to trace their causes to their creative source, and to read from them the power, wisdom and beneficence of God. 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. (Three term hours.) The textbook, Jevon's *Advanced Logic*. Any other logic is good for reference, Mill, Bain, Hibben, Davis, Robinson, and others.

Logic is the study, on the thought side, of concepts, judgments, inferences; on the language side of terms, propositions, arguments; in other words, the study of correct processes of thought. It analyzes induction, traces its steps from observation, comparison, inference, proof, to the generalization of truths; it is the scientific method.

It passes not only from the particular to the general, but from the general to the particular, and points out in each case both the right way and the wrong.

It would 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. Also with History for a major, Economics and History, 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., W., Th., 9:20. (Three term hours.) 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., W., Th., 9:20. (Three term hours.) Text-book: Fairbank's 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., 11:10. (Three term hours.)

This course will be an application of the principles brought out in Sociology to a few of the problems of society. For the first semester of the coming year the questions of Housing, Sanitation, and Welfare Work, of the City of Akron will be taken up, and the class will work in close connection with the Board of Health and the Charities Organization of the city. The work will be lecture and research, with two hours of field work each week.

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

Tu., Th., 11:10. (Two term hours.)

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.

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

Tu., Th., 10:15. (Two term hours.) 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., 10:15. (Two term hours.)

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.)*

Tu., Th., 8:25. (Three term hours.)

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

ASSISTANT-PROFESSOR THOMPSON.

Major.—History may be combined for two majors. One, History and Economics, 12 term hours each; the other, Philosophy and History, 12 term hours each.

273. *History of England to the seventeenth century.*—
(*First Semester.*)

M., W., F., 11:10. (Three term hours.)

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 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 Western Europe. Medieval civilization, the Renaissance and the Reformation period.*—
(*First Semester.*)

M., W., F., 8:25. (Three term hours.)

276. *History of Western Europe from the eighteenth century to the present time.*—(*Second Semester.*)

Continuation of 275.

277. *History of the United States to 1830.*—(*First Semester.*) (Three term hours.)

Not given 1914—1915.

278. *History of the United States from 1830 to the present time.*—(Second Semester.) (Three term hours.)

Continuation of 277. Not given, 1914-1915.

History 273-274, 275-276, 277-278, are the introductory college courses, and are prerequisites for advanced courses in history to be announced later.

MATHEMATICS—PURE AND APPLIED.

PROFESSOR LOCKNER.

ASSISTANT-PROFESSOR OLIN.

MR. OBER.

Major in Mathematics and Physics.

Calculus, ten term hours.

Surveying, two term hours.

Physics, twelve term hours.

Total twenty-four term hours.

301. *Plane and Spherical Trigonometry.*—(First Semester.)

In three sections. Sections a and b, Tu., W., Th., F., at 7:30. Section c, Tu., W., Th., F., at 8:25. (Four term hours.) Required of all freshmen.

During the first four weeks a review is given in college algebra. This review includes quadratics with graphical representations, variation, inequalities, progressions, partial fractions, logarithms and the general theory of equations. Text: Reitz and Crawthorne.

This preliminary work in college algebra is followed by the regular work in trigonometry. This work includes goniometry, trigonometric equations, solution of plane and spherical triangles and construction of tables. Text: Rothrock.

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

In three sections. Sections a and b, Tu., W., Th., F., at 7:30. Section c, Tu., W., Th., F., at 8:25. (Four term hours.) Prerequisite for the course, Plane and Spherical Trigonometry. Required of all scientific students; elective for all others. Text: Nichols.

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, parametric equations, 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 8:25. (Five term hours.) Five times a week. M., Tu., W., Th., F. Text: Osborne. Prerequisite: Courses 301 and 302.

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

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

At 8:25. (Five term hours.) Five times a week. M., Tu., W., Th., F. Text: Osborne. Prerequisite: Courses 301, 302 and 305.

The work includes integration of standard forms, constant of integration, integration of rational fractions, integration

of irrational fractions, trigonometric forms, integration by parts, integration by substitution, summation and the definite integral, application to curves and simple volumes of revolution, moments of inertia, center of gravity of any solid, application to pressure of fluids, force of attraction, etc. The solution of ordinary differential equations of the first and higher orders.

304. *Elementary Surveying.*—(*Second Semester.*)

(Two term hours.) One recitation each week, F., 10:15, 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: Merriman and Brooks' Handbook for Surveyors.

308. *Advanced Surveying.*—(*Second Semester.*)

(Two term hours.) One recitation each week, Friday 10:15, to be accompanied by at least forty hours of field work to be put in during the afternoons and Saturday mornings if necessary. Prerequisite course, 304.

Field practice is given in topographical methods, stadia traversing and triangulation; in a study of the elements of railroad reconnaissance and location, including details of curves and turnouts; and in selected problems in geodesy, which will include the determination of time, latitude and azimuth with ordinary instruments.

ASTRONOMY AND GEOLOGY.

PROFESSOR LOCKNER.

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

Three times a week: M., W., Th., 9:20. (Three term hours.)

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.

Before taking up the historical geology a brief lecture course is given in systematic zoology in order that the student may become somewhat familiar with various forms of animal life.

320. *Descriptive Astronomy.*—(*Second Semester.*)

Three times a week: M., W., Th., 9:20. (Three term hours.) 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. Study one evening a week, demonstration at equatorial, meridian circle and other instruments of the observatory.

322. *Practical Astronomy.*—(*Second Semester.*)

Time to be arranged. (Three term hours.) Elective for those who have completed Mathematics 301 and 302, Astronomy 320, and Physics 341. Text: Campbell's Practical Astronomy.

Preliminary work with accessory instruments, such as: micrometer, level, reading, microscope, etc. Theory of as-

tronomical instruments, observations with engineers' transiti, sextant, and meridian circle. Determination of time, latitude, longitude, right ascension and declination of stars by differential method.

MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY.

ASSISTANT-PROFESSOR C. R. OLIN.

Each year the demand has been stronger that it be made possible for a student to obtain such work in his Literary Course, as to shorten his course in a Technical School by two years. Buchtel College intends to continue distinctly as a College of Liberal Arts and Letters, but it has seemed wise to yield to the demand to a certain extent. One year's work in Mechanical Drawing and Descriptive Geometry has been added. This work will be such as will be accepted at full value by any Technical School.

A student looking forward to a Technical course after finishing the Literary course should make it known to the Classification Committee and the instructors in charge, that a proper selection and election of work to this end may be made.

331. *Elementary Mechanical Drawing.*—(First Semester.)

(a) M., Th., F., 1-3:40; (b) Tu., W., Th., 1-3:40.
(Four term hours.) Two and one-half hours' drafting or recitation each day. Text: French's Engineering Drawing.

Drawing Outfit includes Set of Drafting Instruments, drawing board, T-square, triangles, curve ruler, triangular scale, etc., and costs about \$10 for a satisfactory outfit. Good work cannot be expected with an inferior set of tools.

The work includes: Use of drawing instruments, elementary geometrical drawing, lettering, orthographic projections, tracing, blue-printing, etc.

Courses 331 and 332 are elective in place of French for Scientific Freshmen.

332. *Descriptive Geometry.—(Second Semester.)*

(a) M., Th., F., 1-3:40; (b) Tu., W., Th., 1-3:40. (Four term hours.) Two and one-half hours' drafting or recitation each day. Text: Smith, Descriptive Geometry. Prerequisites: Solid Geometry and Drawing Course 331.

The work includes: Representation of points, lines, planes, and intersections in orthographic projection; curved lines, tangents, development and intersection of surfaces, and simple pattern-making.

334. *Mechanical Drawing. Same as Course 331.—(Second Semester.)*

For students entering College the second semester. Same days as Course 332. (Four term hours.)

335. *Descriptive Geometry. Same as Course 332.—(First Semester.)*

For students entering as freshmen with Mechanical Drawing taken in High School. Same days as Course 331. (Four term hours.)

336. *(Second Semester.)*

For students completing Course 335 a course in machine design, architectural drawing and design, or other similar work will be offered. Same days as Course 332. (Four term hours.)

PHYSICS.

PROFESSOR LOCKNER.

MR. OBER.

Major in Mathematics and Physics.

Physics, twelve term hours.

Surveying, two term hours.

Calculus, ten term hours.

Total, twenty-four term hours.

Major in Physics.

Physics, twenty-four term hours.

The courses in this department have been planned to serve two purposes:

First: Courses 341, 342, 343 and 344 provide the broad general training in Physics which has become a necessary part of every liberal education.

Second: The advanced Courses 345, 346, 347, 348, 349 and 350 are of a purely technical nature, being designed especially for those students who wish to make a profession of engineering.

These courses, together with those required for a major in Mathematics and Physics, will furnish the student with sufficient technical training to earn a fair compensation in ordinary engineering work.

341. *General Physics.—(First Semester.)*

Four recitations a week: M., Tu., W., Th., 10:15.

(Four term hours.) Text: Loney. The work includes elementary mechanics, wave motion and sound.

Required of all scientific students, elective for all others.

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

342. *General Physics (Continued.)—(Second Semester.)*
Text: Kimball. Required of all scientific students, elective for all others. The work includes light, heat, electricity and magnetism. Prerequisite: Course 341.
343. *General Physics, Laboratory.—(First Semester.)*
Two three-hour laboratory periods on two afternoons of each week. (Two term hours.) Required of all scientific students in connection with Course 341, elective for all others.
344. *General Physics, Laboratory.—(Second Semester.)*
Continuation of 343. Required of all scientific students in connection with Course 342, elective for all others.
345. *Analytical Mechanics.—(First Semester.)*
Three recitations a week: M., W., F., 11:10. (Three term hours.) Text: Martin. Prerequisites: Calculus and one year of College Physics.

The work includes the rectilinear motion of a particle with applications, relative motion, simple harmonic motion, the curvilinear motion of a particle, the motion of rigid bodies, the kinetics of a particle and of the mass center of a rigid body, constrained motion, the kinetics of a rigid body, work, energy and the applications to machines, impact, and also the solution of numerous problems involving the principles of mechanics.

Omitted in 1914-1915.

346. *Strength of Materials.—(Second Semester.)*
Three recitations a week: M., W., F., 11:10 (Three term hours.) Text: Merriman. Prerequisites: Calculus and one year of College Physics.
- The work includes stress, strain, tension and compression, shearing force, torsion, bending, shearing and combined

stresses, curves for shearing stresses and bending moments, the slope and deflection of beams, columns and struts, stress on members of frames, framed structures and miscellaneous problems involving an application of the general theory of the subject.

Omitted in 1914-1915.

347. *Hydraulics.*—(*First Semester.*)

Three recitations a week: M., W., F., 11:10. (Three term hours.) Prerequisite courses: Calculus and one year of College Physics.

The course consists of the solution of numerous problems covering hydrostatic and hydrodynamic pressure, the flow of water thru orifices, over weirs and thru pipes and open channels, losses from friction and other causes. This course is supplemented by a detailed study of some water power plant upon which the student is required to make a written report.

348. *Steam and Gas Engines.*—(*Second Semester.*)

Three recitations a week: M., W., F., 11:10. (Three term hours.) Prerequisite courses: Calculus and one year of College Physics.

The course includes a study of the general laws of thermodynamics; isothermal and adiabatic expansion; temperature-entropy diagrams; the design of the steam engine and its parts including valves, link motions, governors, fly-wheels, etc.; the various types of internal combustion engines; carbureation, ignition, governing, etc., and the adaptability of the different types.

349. *Dynamos and Motors.*—(*First Semester.*)

Two recitations a week: Tu., Th., 11:10. (Two term hours.) Prerequisites: Calculus and one year of College Physics. Text: Sheldon.

This course includes a study of magnetism; a study of applications of Ohm's laws; the theory of commutation; and the theory and characteristics of direct current generators and motors, including series, shunt, and compound wound machines.

350. *Dynamos and Motors.*—(Second Semester.)

Continuation of 349.

The course includes a preliminary study of the sine wave as applied to alternating currents and of circuits containing resistance, inductance, and capacity; and a study of the characteristics of single-phase and polyphase generators and motors, the induction motor, the synchronous motor, and the transformer.

CHEMISTRY.

PROFESSOR SIMMONS.

ASSISTANT-PROFESSOR VAN DOREN.

MR. SMITH.

MR. SIDNELL 1914-1915.

Major: Twenty-four term hours in Chemistry above the Freshman year and courses in Physics 341-344 inclusive, are the minimum requirements for a major in Chemistry and Physics.

351. *General Chemistry.*—(First Semester.)

Text: Alex. Smith. A study of the newer theories of Chemistry. Six hours per week. Section a—recitations M., W., 9:20; laboratory, 1-3:00 M. and F. Section b—recitation Tu., Th., 11:10; laboratory 3:00-5:00 M. and F. (Four term hours.)

353. *General Chemistry.*—(First Semester.)

Text: Remsen. Six hours per week. Tu. and Th., 10:15; Tu. and W., 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 Preparation; Blow-pipe Analysis.
354. *General Chemistry.*—(*Second Semester.*)
Six hours per week. Continuation of 353. (Four term hours.) Inorganic Preparations.

The elements of inorganic chemistry are taught by recitation, lectures and practical work in the laboratory. Each student is assigned a desk in the laboratory, furnished with apparatus and chemicals, and it is required that most statements shall be confirmed by experiment and illustrated before the class; each student is further required to manufacture one or more salts under each basic element, and to explain fully the process and principles involved and exhibit to the class the result of the work.

An elementary course of blow-pipe analysis is given in connection with the study of the metallic elements and their occurrence in ores and minerals.

365. *Qualitative Analysis.*—(*First Semester.*)
Lecture F., 2:00. Laboratory M., W., F., 3:00-5:00. (Three term hours.) A study of the separation and identification of the bases and identification of the acids. 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.) The identification of the acids, and the separation and identification of the bases and acids in unknown inorganic mixtures.
357. *Organic Chemistry.*—*Recitations and Laboratory Practice.*—(*First Semester.*)
Six hours per week, M., W., 9:20; Th., 1:00 to 5:00. (Three term hours.) A study of the aliphatic series

of hydrocarbons and their derivatives. Laboratory study of the methods of purification and of the methods for determining the purity; also, of the methods used in the preparation of characteristic compounds. Required of all students who select Chemistry as their Major subject.

358. *Organic Chemistry*.—(*Second Semester*.)
(Three term hours.) A continuation of Course 357.
359. *Quantitative Analysis*.—(*First Semester*.)
M., W., F., 3:00 to 5:00. (Three term hours.) Begins with the analysis of simple salts and minerals and then introduces technical problems.
360. *Quantitative Analysis*.—(*Second Semester*.)
A continuation of 359. In this course the student is made familiar with both gravimetric and volumetric methods of analysis and their applications to technical problems.
363. *Chemistry of India Rubber*.—(*First Semester*.)
F., 7:30; Tu. and Th., 1:00-5:00. (Three term hours.) The study will cover the various crude gums, solvents, and methods of analysis of soft-cured rubbers.
364. *Chemistry of India Rubber*.—(*Second Semester*.)
Continuation of 363. This course continues the study of analysis. Theories of vulcanization. Compounding and curing of samples. Theories of reclaiming and their practical application.

A second year is planned for students who desire to take up research work in rubber chemistry.

The first year course supposes a previous course of a year of organic chemistry and a half-year of quantitative analysis.

Various reference books are used. Recitations are required, lectures given and reviews of articles in periodicals assigned. Ability to read German and French is helpful.

Students themselves do all the work of manipulating the rubber. Mixing rolls, calender rolls and vulcanizers are provided.

While the full course occupies two college years, students can select any part for which they are qualified or omit any part.

Certificates of work accomplished will be given students whenever they leave.

367. *Advanced Organic Chemistry.—Lectures, Recitations and Laboratory Practice.—(First Semester.)*

Six hours per week. Tu., 1:00 to 5:00; Tu., Th., 10:15. (Three term hours.) A study of the Aromatic series of hydrocarbons and their derivatives. Laboratory study of important compounds; especial attention being given to the preparation of dyestuffs. (Required of students who major in Chemistry.)

368. *Advanced Organic Chemistry.—(Second Semester.)*

A continuation of Course 367. The laboratory practice will deal with the methods used for the quantitative determination of the constituents of an organic compound, and for the determination of molecular weights. (Required of students who major in Chemistry.)

Industrial Chemistry is taught by lectures and laboratory practice. Whenever possible, actual products are exhibited to the students and the manufacturing processes reproduced in miniature. The great losses by imperfect methods of manufacture and by waste products are pointed out and the student is taught to see the true economy of production. Illustrative of the topics studied, visits are made to various

manufacturing establishments and an opportunity is given to see manufacturing operations in actual working. Akron and the neighboring city of Barberton afford a varied field for the study of chemistry applied in the industries, as shown in a partial list of prominent manufactories:

The making of pottery and various clay products.

The manufacture of India rubber products, both hard and soft.

The manufacture of paper and straw-board.

The manufacture of artificial ice.

The making of soda ash.

The manufacture of paints and varnishes.

BIOLOGY.

PROFESSOR GREGORY.

Twenty-four term hours constitute a major. The required minors are: English, seven hours; Chemistry, six; Philosophy, or Logic and Economics, six.

401. *Invertebrate Zoology.*—(*First Semester.*)

Tu., Th., 8:25 and 1:00-3:00; F., 11:10. (Four term hours.)

The time will be devoted to a study of the fundamental principles and processes common to plants and animals, and of the distinctions which separate them, followed by a study of the structure, relationships, habits and economic value of different types of invertebrate animals. Two lectures, two laboratory periods, and one recitation each week. Open to freshmen and sophomores.

414. *Botany.*—(*Second Semester.*)

Tu., Th., 8:25 and 1:00-3:00; F., 11:10. (Four term hours.)

The time will be given to a study of the structure and relationships of types of the various groups of the plant kingdom, with outlines of the principles of physiology, ecology, and distribution. The economic uses of plants will also be kept in view. Several field trips will be taken. Two lectures, two laboratory periods, and one recitation each week. Open to freshmen and sophomores.

Courses 401 and 414 give an understanding of the principles of General Biology and have been arranged with special reference to the needs of the general student, as a part of a liberal education, and as a preparation for Psychology and Sociology. They should be taken as early as possible by prospective medical students, who can then follow them with Vertebrate Zoology, Physiology and Embryology. (Students needing Biology as a minor should take 401 and 414 in their freshman or sophomore year.)

413. Another semester of work in Botany will be arranged for students wishing to take the combined Arts—Agriculture Course at the Ohio State University.

403. *Comparative Zoology of Vertebrates.*—(First Semester.)

Alternates with 407. Not given 1914-1915. (Four term hours.)

A study of the structure and relationships of the various groups of Vertebrates, their life-habits and economic value. It will include a discussion of evolution. Lectures, laboratory, and recitations. Open to sophomores, juniors and seniors. Courses 401 and 414 are recommended in preparation.

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

Alternates with 408. Not given 1914-1915. (Four term hours.)

Prerequisites: 401, 414, 403. Open to sophomores, juniors and seniors.

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

M., W., Th., 9:20; Laboratory, M., W., 1:00-3:00.
(Four term hours.)

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

Continuation of 407.

Prerequisites for 407 and 408 are Courses 401 and 414, one year of College Chemistry, and Elementary Physics. Open to sophomores, juniors and seniors.

411. *Methods in Histology.*—(*First Semester.*)

Hours to be arranged with the instructor. (Four term hours.)

A course in the preparation of tissues for microscopical study, with some study of normal tissues, will be arranged for advanced students desiring such work.

Prerequisite 401 and 414. Prerequisite, or taking, 403 and 404. Open to juniors and seniors.

412. *Methods in Histology.*—(*Second Semester.*)

Continuation of 411.

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

W., 8:25. (One term hour.) Lectures on Municipal Hygiene and Sanitation, and Preventive Medicine. Open to juniors and seniors.

416. *Heredity.*—(*Second Semester.*)

M., W., 8:25 for the first-half of the semester. (One term hour.)

A course of lectures explaining the bases of heredity in Biology and Embryology and including a discussion of the principles of environment. Open to junior and senior women students.

Lectures on Hygiene for Freshmen Women.—(First Semester to Thanksgiving.)

W., 3:00-4:00. (One term hour with Gymnasium work.)

PHYSICAL EDUCATION.

MR. HAGGERTY, DIRECTOR.

Physical education is conducted under the direct supervision of an experienced physical director, who is a member of the college faculty. He is assisted by an associate director for women. The main floor of the gymnasium (90 by 50 feet) is well equipped with modern gymnastic apparatus. It is used by the men on Tuesday, Wednesday, and Thursday, and by the women on Monday and Friday afternoons.

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.

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 male 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.

PHYSICAL TRAINING FOR MEN.

MR. HAGGERTY.

All first-year men are required to take the following work, beginning September, 1914: 32 hours of out-door work;

24 hours in-door class work ; 8 hours lecture work (hygiene, dietetics and exercises).

For this work they are to receive one hour credit.

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.

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 diamonds, and football fields with bleachers to accommodate 4000 spectators.

The intercollegiate sports are under the government of 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 are scheduled subject to the approval of the faculty.

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.

PHYSICAL TRAINING FOR WOMEN.

MISS SMITH.

The regular work in physical training for women will begin about the middle of November and will continue for eighteen weeks. The work is required of all first year students, and may be elected by others.

The course will include gymnastics, dancing, and athletics.

On certain afternoons, the exclusive use of the gymnasium is reserved for women. Athletic sports, in basket ball and lawn tennis, are encouraged.

DR. GREGORY.

First-year women are also required to attend a course of lectures on hygiene, given by Dr. Gregory.

A credit of one semester hour will be given for the completion of both of the above courses.

SCHEDULE FOR FIRST SEMESTER.

1914-1915

	MONDAY	TUESDAY	WEDNESDAY
	Homer 3 Plato 5	Class. Myth. 19	Homer 3 Plato 5
7:30	Prose Fiction 79 Sec. Yr. French 153 Logic 205	Fresh. Rhet. 51a German 105 French Cl. Per. 159 Fresh. Math. 301a and b	Prose Fiction 79 Sec. Yr. French 153 Logic 205 Fresh. Math. 301a and b
	Fresh. Latin 25 Chaucer 67 German 103a	Suetonius 31 Amer. Lit. 75 Germ. Lit. 111 Sci. Germ. 129 French Mod. Prose 157	Fresh. Latin 25 Chaucer 67 German 103a
8:25	Psychology 201 Hist. West. Eur. 275 Calculus 305	Fresh. Math. 301c Calculus 305 Inv. Zool. 401	Psychology 201 Hist. West. Eur. 275 Fresh. Math. 301c Calculus 305 Adv. Hyg. 415
	Shakespeare 69 First Yr. Germ. 101a Lessing 123 First Yr. French 151a Econ. 251 Geol. 323 Fresh. Chem. 351a Org. Chem. 357 Physiol. 407	Assembly	Shakespeare 69 First Yr. Germ. 101a Lessing 123 First Yr. French 151a Econ. 251 Geol. 323 Fresh. Chem. 351a Org. Chem. 357 Physiol. 407
10:15	Greek 1 Soph. Lit. 65 Mod. Germ. Lit. 109 German 131 First Yr. French 151b Ethics 203 Physics 341	Greek 1 Fresh. Rhet. 51b Elem. Pub. Sp. 91 Germ. Sem. 125 Pol. Sci. 261 Physics 341 Fresh. Chem. 353 Adv. Org. Chem. 367	Greek 1 Soph. Lit. 65 Mod. Germ. Lit. 109 German 131 First Yr. French 151b Ethics 203 Physics 341
11:10	Livy 27 Fresh. Rhet. 51c 19th Cent. Poetry 73 First Yr. Germ. 101b German 103b Spanish 171 Hist. of Eng. 273 Hydraulics 347	Rom. Priv. Life 37 Soph. Rhet. 53 Adv. Pub. Sp. 93 French 163 Sociol. Prob. 253 Dyn. and Mot. 349 Fresh. Chem. 351b	Livy 27 19th Cent. Poetry 73 First Yr. Germ. 101b German 103b Spanish 171 Hist. of Eng. 273 Hydraulics 347
	AFTERNOON		
1:00 to 3:00	Fresh. Chem. 351a Physiol. 407	Fresh. Chem. 353 Rub. Chem. 363 Adv. Org. Chem. 367 Inv. Zool. 401	Fresh. Chem. 353 Physiol. 407
1:00 to 3:40	Mech. Dr. 331a Descr. Geom. 335a	Mech. Dr. 331b Descr. Geom. 335b	Mech. Dr. 331b Descr. Geom. 335b
3:00 to 5:00	Fresh. Chem. 351b Qual. Anal. 365 Quant. Anal. 359	Rub. Chem. 363 Adv. Org. Chem. 367	Qual. Anal. 365 Quant. Anal. 359 Fresh. Hygiene (3:00-4:00)

ADDITIONAL STUDIES

The time for the following studies will be arranged to suit the convenience of instructor and students: Latin Teachers' Course 39 (two term hours), Roman Law 41 (two term hours), Dramatic

SCHEDULE FOR FIRST SEMESTER.

1914-1915

	THURSDAY	FRIDAY	SATURDAY
	Class. Myth. 19 Fresh. Rhet. 51a	Homer 3 Plato 5	
7:30	German 105 French Cl. Per. 159 Fresh. Math. 301a and b	Sec. Yr. French 153 Logic 205 Fresh. Math. 301a and b Rub. Chem. 363	News Writing 59
8:25	Suetonius 31 Amer. Lit. 75 Germ. Lit. 111 Sci. Germ. 129 French Mod. Prose 157 Fresh. Math. 301c Calculus 305 Inv. Zool. 401	Fresh. Latin 25 Chaucer 67 German 103a Psychology 201 Hist. West. Eur. 275 Fresh. Math. 301c Calculus 305	Suetonius 31
9:20	Shakespeare 69 First Yr. Germ. 101a Lessing 123 First Yr. French 151a Econ. 251 Geol. 323 Physiol. 407	Assembly	First Yr. Germ 101a First Yr. French 151a
10:15	Greek 1 Fresh. Rhet. 51b Elem. Pub. Sp. 91 Pol. Sci. 261 Physics 341 Fresh. Chem. 353 Adv. Org. Chem. 367	Lat. Prose Comp. 33 Soph. Lit. 65 Mod. Germ. Lit. 109 German 131 First Yr. French 151b Ethics 203	Elem. Pub. Sp. 91 First Yr. French 151b
11:10	Rom. Priv. Life 37 Soph. Rhet. 53 Adv. Pub. Sp. 93 French 163 Sociol. Prob. 253 Dyn. and Mot. 349 Fresh. Chem. 351b	Livy 27 Fresh. Rhet. 51c 19th Cent. Poetry 73 First Yr. Germ. 101b German 103b Spanish 171 Hist. of Eng. 273 Hydraulics 347 Inv. Zool. 401	First Yr. Germ. 101b
AFTERNOON			
1:00 to 3:00	Org. Chem. 357 Rub. Chem. 363 Inv. Zool. 401	Fresh. Chem. 351a	
1:00 to 3:40	Mech. Dr. 331a and b Descr. Geom. 335a and b	Mech. Dr. 331a Descr. Geom. 335a	
3:00 to 5:00	Org. Chem. 357 Rub. Chem. 363	Fresh. Chem. 351b Qual. Anal. 365 (2:00-5:00) Quant. Anal. 359	

Study Club 95 (one term hour), French Diary 165 (one term hour),
General Physics Laboratory 343 (two term hours), Histology 411
(four term hours), Botany 413.

SCHEDULE FOR SECOND SEMESTER.

1914-1915

	MONDAY	TUESDAY	WEDNESDAY
7:30	Homer 4 Demosthenes 6 Prose Fiction 80 Sec. Yr. French 154	Class. Arch. 20 Fresh. Rhet. 52a German 106 French Class. Per. 160 Fresh. Math. 302a and b	Homer 4 Demosthenes 6 Prose Fiction 80 Sec. Yr. French 154 Fresh. Math. 302a and b
8:25	Fresh. Latin 26 Word Study 68 German 104a Psychology 202 Hist. West. Eur. 276 Calculus 306 Hereditiy 416	Horace 32 Amer. Lit. 76 Germ. Lit. 112 Sci. Germ. 130 French Mod. Prose 158 Mun. Org. and Man. 264 Fresh. Math. 302c Calculus 306 Botany 414	Fresh. Latin 26 Word Study 68 German 104a Psychology 202 Hist. West. Eur. 276 Fresh. Math. 302c Calculus 306 Hereditiy 416
9:20	Fresh. Lit. 66a First Yr. Germ. 102a Germ. Post. Class. 124 First Yr. French 152a Sociology 252 Astronomy 320 Fresh. Chem. 352a Org. Chem. 358 Physiol. 408	Assembly	Fresh. Lit. 66a First Yr. Germ. 102a Germ. Post. Class. 124 First Yr. French 152a Sociology 252 Astronomy 320 Fresh. Chem. 352a Org. Chem. 358 Physiol. 408
10:15	Greek 2 Soph. Lit. 66b Mod. Germ. Lit. 110 German 132 First Yr. French 152b Ethics 204 Physics 342	Greek 2 Fresh. Rhet. 52b Elem. Pub. Sp. 92 Germ. Sem. 126 Fed. Gov. 262 Physics 342 Fresh. Chem. 354 Adv. Org. Chem. 368	Greek 2 Soph. Lit. 66b Mod. Germ. Lit. 110 German 132 First Yr. French 152b Ethics 204 Physics 342
11:10	Terence 28 Fresh. Rhet. 52c 19th Cent. Poetry 74 First Yr. Germ. 102b German 104b Spanish 172 Hist. of Eng. 274 Steam and Gas Eng. 348	Rom. Priv. Life 38 Soph. Rhet. 54 Adv. Pub. Sp. 94 French 164 Econ. Prob. 254 Dyn. and Mot. 350 Fresh. Chem. 352b	Terence 28 19th Cent. Poetry 74 First Yr. Germ. 102b German 104b Spanish 172 Hist. of Eng. 274 Steam and Gas Eng. 348
AFTERNOON			
1:00 to 3:00	Fresh. Chem. 352a Physiol. 408	Fresh. Chem. 354 Rub. Chem. 364 Adv. Org. Chem. 368 Botany 414	Fresh. Chem. 354 Physiol. 408
1:00 to 3:40	Descr. Geom. 332a Mech. Drawing 334a Drawing 336a	Descr. Geom. 332b Mech. Drawing 334b Drawing 336b	Descr. Geom. 332b Mech. Drawing 334b Drawing 336b
3:00 to 5:00	Fresh. Chem. 352b Qual. Anal. 366 Quant. Anal. 360	Rub. Chem. 364 Adv. Org. Chem. 368	Qual. Anal. 366 Quant. Anal. 360

ADDITIONAL STUDIES

The time for the following studies will be arranged to suit the convenience of instructor and students: Latin Teachers' Course 40 (two term hours), Dramatic Study Club 96 (one term hour), French

SCHEDULE FOR SECOND SEMESTER.

1914-1915

	THURSDAY	FRIDAY	SATURDAY
	Class. Arch. 20	Homer 4 Demosthenes 6	
7:30	Fresh. Rhet 52a German 106 French Class. Per. 160 Fresh. Math. 302a and b	Sec. Yr. French 154 Fresh. Math. 302a and b Rub. Chem. 364	News Writing 60
8:25	Horace 32 Amer. Lit. 76 Germ. Lit. 112 Sci. Germ. 130 French Mod. Prose 158 Mun. Org. and Man. 264 Fresh. Math. 302c Calculus 306 Botany 414	Fresh. Latin 26 Word Study 68 German 104a Psychology 202 Hist. West. Eur. 276 Fresh. Math. 302c Calculus 306	Horace 32
9:20	Fresh. Lit. 66a First Yr. Germ. 102a Germ. Post. Class. 124 First Yr. French 152a Sociology 252 Astronomy 320 Physiol. 408	Assembly	First Yr. Germ. 102a First Yr. French 152a
10:15	Greek 2 Fresh. Rhet. 52b Elem. Pub. Sp. 92 Fed. Gov. 262 Physics 342 Fresh. Chem. 354 Adv. Org. Chem. 368	Lat. Prose Comp. 34 Soph. Lit. 66b Mod. Germ. Lit. 110 German 132 First Yr. French 152b Ethics 204 Elem. Surv. 304 Adv. Surv. 308	Elem. Pub. Sp. 92 First Yr. French 152b
11:10	Rom. Priv. Life 38 Soph. Rhet. 54 Adv. Pub. Sp. 94 French 164 Econ. Prob. 254 Dyn. and Mot. 350 Fresh. Chem. 352b	Terence 28 Fresh. Rhet. 52c 19th Cent. Poetry 74 First Yr. Germ. 102b German 104b Spanish 172 Hist. of Eng. 274 Steam and Gas Eng. 348 Botany 414	First Yr. Germ. 102b
AFTERNOON			
1:00 to 3:00	Org. Chem. 358 Rub. Chem. 364 Botany 414	Fresh. Chem. 352a	
1:00 to 3:40	Descr. Geom. 332a and b Mech. Draw. 334a and b Drawing 336a and b	Descr. Geom. 332a Mech. Drawing 334a Drawing 336a	
3:00 to 5:00	Org. Chem. 358 Rub. Chem. 364	Fresh. Chem. 352b Qual. Anal. 366 (2:00-5:00) Quant. Anal. 360	

Diary 166 (one term hour), Practical Astronomy 322 (three term hours), General Physics Laboratory 344 (two term hours), Histology 412 (four term hours).

COLLEGE OF ENGINEERING

FRED E. AYER, C. E., DEAN

The College of Engineering was established by the Directors of the Municipal University in 1914 and will occupy the building now used by the Academy. Applicants will be assigned to shop work in July, 1914, and accepted as students in September, 1914.

The College of Engineering of the Municipal University of Akron has adopted the "Cincinnati plan" and offers a five-year co-operative course in engineering.

Fred. E. Ayer, formerly Associate Professor of Civil Engineering in the University of Cincinnati, has been appointed Dean of the College of Engineering. Professor Ayer has been associated with Dean Schneider in the operation of the Co-operative Engineering courses for the past seven years and is thoroly acquainted with the details of the work.

The "Cincinnati plan" requires the practice of engineering to be learned under actual commercial conditions, and the science underlying this practice to be taught in the University by trained educators. Its aim is to give the student a thoro training in both the theory and the practice of engineering. The students are grouped in two sections, one of which is at work and the other in attendance at the University. Thus, during any weekly or bi-weekly period, one-half the students are at the University and one-half are in the shops. At the end of the period, those who were at the University go to the shops, and those who were in the shops go to the University.

Five years of eleven months each are required to complete the course. Each student is allowed a vacation of one week at Christmas time and three weeks in the latter part of the summer.

The number of students which can be accepted in the fall of 1914 is limited both by the positions open in the factories of Akron and by the facilities of the University; therefore, applications for admission should be filed with the Dean of the Engineering College before July 1, 1914. Students applying after that date will be admitted if any positions remain open or if any vacancies occur 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 the same 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. There are over six hundred colleges and universities in the United States and less than fifty 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. No other courses in engineering will be offered.

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

Complete information will appear in a separate publication.

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 will be opened to students in September, 1914, and will occupy 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. The building is equipped with parlors, dining room, kitchen, laundry, bedrooms, etc., besides the necessary laboratories for work in Home Economics.

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.

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.

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. Especial attention will be given to providing training for those who may wish to become teachers of the subject.

OUTLINE OF REQUIRED STUDIES

First Year

First Semester.	Term hrs.	Second Semester.	Term hrs.
Chemistry 351 or 353.....	4	Chemistry 352 or 354.....	4
English 51	2	English 52	2
Modern Language.....	3 or 4	Modern Language.....	3 or 4
Designing 601	1	Designing 602	1
Textiles 603	2	Textiles 604	2
Public Speaking 619.....	3	Public Speaking 620.....	3
Physical Training	1		
	<u>16 or 17</u>		<u>15 or 16</u>

Second Year

Organic Chemistry 621.....	3	Organic Chemistry 622.....	3
Zoology 401	4	Botany 414	4
Foods 605	4	Foods 606	4
Modern Language	3	Modern Language	3
Mechanical Drawing 625.....	2	House Planning 626	2
	<u>16</u>		<u>16</u>

Third Year

Household Chemistry 623.....	3	Household Chemistry 624.....	3
Physiology 407	4	Physiology 408	4
Hist. Western Europe 275.....	3	Hist. Western Europe 276.....	3
Bacteriology 627	2	Bacteriology 628	2
Art 607	2	Sanitation 612	3
Dress 609	3		
	<u>17</u>		<u>15</u>

Fourth Year

Dietetics 613	5	Seminar 618	2
English 65	3	English 66	3
Economics 251	3	Sociology 252	3
The House 615.....	3	The House 616.....	3
	<u>14</u>		<u>11</u>

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

Degrees

For the completion of the four-year course in Home Economics (128 semester 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.

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 351, 352, 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.

Zoology 401	\$2.50
Botany 414	2.50
Physiology 407, 408, per semester	3.50
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.

ENGLISH.

PROFESSOR SPANTON.

ASSISTANT-PROFESSOR STURTEVANT

51. *Freshman Rhetoric.*—(*First Semester.*)

Section a, Tu., Th., 7:30; Section b, Tu., Th., 10:15;
Section c, M., F., 11:10. (Two term hours.)

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. At the end of the first semester, any student whose work proves to be defective in the elementary, but important, details covered by this course will not be allowed to pursue Course 52.

52. *Freshman Rhetoric.*—(*Second Semester.*)

Section a, Tu., Th., 7:30; Section b, Tu., Th., 10:15;
Section c, M., F., 11:10. (Two term hours.)

Required of all freshmen. The forms of prose discourse, especially narration, description, and exposition. Weekly themes. Much higher grade of work than that done in Course 51 insisted upon. Clearness and effectiveness of expression emphasized. Conference work continued. Reading of selected novels and modern plays. Text-book: some collection of prose selections illustrating the forms of discourse.

65. *General Introduction to English Literature.—(First Semester.)*

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

The work includes:

(a) The history of English Literature. Text-book: Long's English Literature. Students will find other text-books helpful—Brooke, Pancoast, Simonds, Halleck, Johnson, Moody and Lovett. Especially valuable for supplementary reading is Green's Shorter History of the English People.

(b) The reading of masterpieces illustrating literary types and representing the main movements in English Literature. Much reading is required; still more is recommended. Text-book: Newcomer and Andrews' Twelve Centuries of English Prose and Poetry.

66. *General Introduction to English Literature.—(Second Semester.)*

Section a, M., W., Th., 9:20; Section b, M., W., F., 10:15. (Three term hours.)

A continuation of 65.

PUBLIC SPEAKING.

MISS MCEBRIGHT.

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

Tu., Th., S., 8:25. (Three term hours.)

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

620. (*Second Semester.*) Continuation of 619.

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

GERMAN.

ASSISTANT-PROFESSOR RUNDELL.

MISS SCHMIDT.

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.

101. (*First Semester.*)

(a) M., W., Th., S., 9:20. (b) M., W., F., S., 11:10.
(Four term hours.)

Beginners' Course.

Vos' Essentials of German; written grammar exercises from English into German. Stories and poems. Simple conversation. Students with one or more years of secondary school German may elect this course but will receive only half credit (2 hours).

102. (*Second Semester.*)

(a) M., W., Th., S., 9:20. (b) M., W., F., S., 11:10. (Four term hours.)

Beginners' Course.

Review of grammar; rapid oral translation of English sentences into German; Storm's Immensee, Hillern's Hoehel als die Kirche or Gerstaecker's Germelshausen.

103. (a) (*First Semester.*)

M., W., F., 8:25. (Three term hours.)

This course is intended for those who have completed courses 101 and 102, or their equivalent. The time will be divided between prose composition and reading of easier prose or poetical works. Students with two years of secondary school German must elect this course or 103 b.

104. (a) (*Second Semester.*)
M., W., F., 8:25. (Three term hours.)

Course 104 carries out in the second semester the work of Course 103. An easier classic, such as Wilhelm Tell, may be attempted.

103. (b) (*First Semester.*)
M., W., F., 11:10. (Three term hours.) A parallel course to 103 a, with equivalent work.

104. (b) (*Second Semester.*)
M., W., F., 11:10. (Three term hours.) A parallel course to 104 a, with equivalent work.

105. (*First Semester.*)
Tu., Th., 7:30. (Two term hours.)

The work of this course is intended primarily for those who have completed courses 101 and 102 (with a grade no lower than G), or courses 103 and 104. The work will consist of lectures, dictated in German, on the history of German literature and of a review of Joynes-Meissner's Grammar.

106. (*Second Semester.*)
Tu., Th., 7:30. (Two term hours.)

The nature of this course is the same as that of course 105. For the grammar review of course 105 a study of German history will be substituted.

131. (*First Semester.*)
M., W., F., 10:15. (Three term hours.)

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 translation.

132. (*Second Semester.*)

A continuation of course 131.

FRENCH.

ASSISTANT-PROFESSOR RINES.

151a. (*First Semester.*)

M., W., Th., S., 9:20. Fraser and Squair's French Grammar. Reader, Francois and Giroud's Simple French.

152a. (*Second Semester.*)

M., W., Th., S., 9:20. Fraser and Squair's French Grammar continued. Labiche and Martin's Voyage de M. Perrichon. Dictation, memorizing and conversation.

151b. (*First Semester.*)

M., W., F., S., 10:15. The course is a duplicate of 151 a.

152b. (*Second Semester.*)

M., W., F., S., 10:15. The course is a duplicate of 152 a.

153. (*First Semester.*)

M., W., F., 7:30. Fraser and Squair's Grammar, Part II. Selected readings.

154. (*Second Semester.*)

Continuation of 153. Grammar work continued. Moliere's *Le Bourgeois Gentilhomme* and *L'Avare*.

ECONOMICS AND SOCIOLOGY.

PROFESSOR O. E. OLIN.

251. *Political Economy.*—(*First Semester.*)

M., W., Th., 9:20. (Three term hours.) 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., W., Th., 9:20. (Three term hours.) Text-book: Fairbank's *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.

HISTORY.

ASSISTANT-PROFESSOR THOMPSON.

275. *History of Western Europe, Medieval civilization, the Renaissance and the Reformation period.*—(*First Semester.*)

M., W., F., 8:25. (Three term hours.)

276. *History of Western Europe from the eighteenth century to the present time.*—(*Second Semester.*)

Continuation of 275.

CHEMISTRY.

PROFESSOR SIMMONS.

ASSISTANT-PROFESSOR VAN DOREN.

351. *General Chemistry.—(First Semester.)*
Text: Alex. Smith. A study of the newer theories of Chemistry. Six hours per week. Section a—recitations, M., W., 9:20; laboratory, 1-3:00 M. and F. Section b—recitations, Tu., Th., 11:10; laboratory 3:00-5:00 M. and F. (Four term hours.)
353. *General Chemistry.—(First Semester.)*
Text: Remsen. Six hours per week. Tu. and Th., 10:15; Tu. and W., 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 Preparation; Blow-pipe Analysis.
354. *General Chemistry.—(Second Semester.)*
Six hours per week. Continuation of 353. (Four term hours.) Inorganic Preparations.

The elements of inorganic chemistry are taught by recitation, lectures and practical work in the laboratory. Each student is assigned a desk in the laboratory, furnished with apparatus and chemicals, and it is required that most statements shall be confirmed by experiment and illustrated before the class; each student is further required to manufacture one or more salts under each basic element, and to explain fully the process and principles involved and exhibit to the class the result of the work.

An elementary course of blow-pipe analysis is given in connection with the study of the metallic elements and their occurrence in ores and minerals.

621. *Organic Chemistry.—(First Half-Year.)*
Five hours per week. Tu. and Th., 11:10; M., 1:00-4:00. (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. M., W., F., 3:00 to 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.

PROFESSOR GREGORY.

401. *Invertebrate Zoology.—(First Semester.)*

Tu., Th., 8:25 and 1:00-3:00; F., 11:10. (Four term hours.)

The time will be devoted to a study of the fundamental principles and processes common to plants and animals, and of the distinctions which separate them, followed by a study of the structure, relationships, habits and economic value of different types of invertebrate animals. Two lectures, two laboratory periods, and one recitation each week.

414. *Botany.—(Second Semester.)*

Tu., Th., 8:25 and 1:00-3:00; F., 11:10. (Four term hours.)

The time will be given to a study of the structure and relationships of types of the various groups of the plant kingdom, with outlines of the principles of physiology, ecology, and distribution. The economic uses of plants will also be kept in view. Several field trips will be taken. Two lectures, two laboratory periods, and one recitation each week.

407. *Physiology.—(First Semester.)*

M., W., Th., 9:20; Laboratory, M., W., 1:00-3:00.
(Four term hours.)

408. *Physiology.—(Second Semester.)*

Continuation of 407.

Prerequisites for 407 and 408 are Courses 401 and 414, one year of College Chemistry, and Elementary Physics.

BACTERIOLOGY.

ASSISTANT-PROFESSOR HARDGROVE.

627. *Bacteriology.—(First Semester.)*

F., 7:30; Tu., 1:00-4:00. (Two term hours.)

A general course in Bacteriology consisting of lectures and laboratory work.

628. *Bacteriology.—(Second Semester.)*

Continuation of 627.

MECHANICAL DRAWING.

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

M., W., 3:00-5:00. (Two term hours.)

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

M., W., 3:00-5:00. (Two term hours.)

HOME ECONOMICS.

MISS STIMMEL.

601. *Designing.—(First Semester.)*

Th., 1:00-3:00. (One term hour.)

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

602. *Designing.*—(Second semester.)

Continuation of 601.

603. *Textiles.*—(First Semester.)

Lecture, M., 7:30; laboratory, Th., 3:00-5:00. (Two term hours.)

Concurrent Designing. A study of fibres and fabrics. Laboratory work includes the proper selection of materials, the making of suitable designs and the making of wearing apparel.

604. *Textiles.*—(Second Semester.)

Continuation of 603.

605. *Foods.*—(First Semester.)

Lecture hours, Tu., Th., 10:15; Laboratory, W., F., 1:00-3:00. (Four term hours.)

Prerequisite, Chemistry 351-2 or 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.

607.* *Art.*—(First Semester.)

(Two term hours.)

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

609.* *Dress.*—(First Semester.)

(Three term hours.)

Prerequisite, Textiles 603-4; concurrent, Art 607. The making of a simple unlined dress. Modification of pattern; selection and combination of suitable materials.

*Courses starred will not be given 1914-15.

612. *Sanitation.*—(Second Semester.)

M., W., F., 11:10. (Three term hours.)

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

613.* *Dietetics.*—(First Semester.)

(Five term hours.)

Prerequisites, Food 605-6, Physiology 407-8, Household Chemistry 361-2. A study of the chemical, physical and physiological value of the nutrients. Dietary standards, infant and invalid cookery.

615.* *The House.*—(First Semester.)

(Three term hours.)

Prerequisite, Art 607, Economics 251, Home Economics 605-6, Home Economics 603-4. The care and management of the home in relation to its purpose and its arrangement and decoration from a practical and attractive standpoint.

616.* *The House.*—(Second Semester.)

A continuation of 615.

618.* *Seminar.*—(Second Semester.)

Open only to seniors.

*Courses starred will not be given 1914-15.

PHYSICAL TRAINING.

The regular work in physical training for women will begin about the middle of November and will continue for eighteen weeks. Freshman students in Home Economics are also required to attend a course of lectures on hygiene given by Dr. Gregory. One term hour credit will be given for the completion of both of the above courses.

SCHEDULE FOR FIRST SEMESTER.

1914-1915

	MONDAY	TUESDAY	WEDNESDAY
7:30	Textiles 603 French 153	Fresh. Rhet. 51a German 105	French 153
8:25	German 103a Hist. West. Eur. 275	Public Speaking 619 Invert. Zool. 401	German 103a Hist. West. Eur. 275
9:20	Chem. 351a German 101a French 151a Lessing 123 Physiol. 407 Economics 251	Assembly	Chem. 351a German 101a French 151a Lessing 123 Physiol. 407 Economics 251
10:15	German 131 French 151b English 65	Chem. 353 Fresh. Rhet. 51b Foods 605	German 131 French 151b English 65
11:10	Fresh. Rhet. 51c German 101b German 103b	Chem. 351b Org. Chem. 621	German 101b German 103b
AFTERNOON			
1:00 to 3:00	Fresh. Chem. 351a Organ. Chem. 621	Fresh. Chem. 353 Invert. Zool. 401 Bacteriology 627	Fresh. Chem. 353 Foods 605
3:00 to 5:00	Fresh. Chem. 351b Mech. Draw. 625 Household Chem. 623	Bacteriology 627 (till 4 o'clock)	Meth. Draw. 625 Household Chem. 623

SCHEDULE FOR FIRST SEMESTER.

1914-1915

	THURSDAY	FRIDAY	SATURDAY
7:30	Fresh. Rhet. 51a German 105	French 153 Bacteriology 627	
8:25	Public Speaking 619 Invert. Zool. 401	German 103a Hist. West. Eur. 275	Public Speaking 619
9:20	German 101a French 151a Lessing 123 Physiol. 407 Economics 251	Assembly	German 101a French 151a
10:15	Chem. 353 Fresh. Rhet. 51b Foods 605	German 131 French 151b English 65	French 151b
11:10	Chem. 351b Org. Chem. 621	Fresh. Rhet. 51c German 101b German 103b Invert. Zool. 401	German 101b
AFTERNOON			
1:00 to 3:00	Designing 601 Invert. Zool. 401	Fresh. Chem. 351a Foods 605	
3:00 to 5:00	Textiles 603	Fresh. Chem. 351b Household Chem. 623	

SCHEDULE FOR SECOND SEMESTER.

1914-1915

	MONDAY	TUESDAY	WEDNESDAY
7:30	Textiles 604 French 154	Fresh. Rhet. 52a German 106	French 154
8:25	German 104a Hist. West. Eur. 276	Pub. Sp. 620 Botany 414	German 104a Hist. West. Eur. 276
9:20	Chem. 352a German 102a French 152a Germ. Post Class. 124 Physiology 408 Sociology 252	Assembly	Chem. 352a German 102a French 152a Germ. Post Class. 124 Physiology 408 Sociology 252
10:15	German 132 French 152b English 66	Chem. 354 Fresh. Rhet. 52b Foods 606	German 132 French 152b English 66
11:10	Fresh. Rhet. 52c German 102b German 104b Sanitation 612	Chem. 352b Org. Chem. 622	German 102b German 104b Sanitation 612
AFTERNOON			
1:00 to 3:00	Fresh. Chem. 352a Org. Chem. 622	Fresh. Chem. 354 Botany 414 Bacteriology 628	Fresh. Chem. 354 Foods 606
3:00 to 5:00	Fresh. Chem. 352b House Planning 626 Househ. Chem. 624	Bacteriology 628 (Till 4 o'clock)	House Planning 626 Househ. Chem. 624

SCHEDULE FOR SECOND SEMESTER.

		1914-1915		
		THURSDAY	FRIDAY	SATURDAY
7:30	Fresh. Rhet. 52a German 106		French 154 Bacteriology 628	
8:25	Pub. Sp. 620 Botany 414		German 104a Hist. West. Eur. 276	Pub. Sp. 620
9:20	German 102a French 152a Germ. Post Class. 124 Physiology 408 Sociology 252		Assembly	German 102a French 152a
10:15	Chem. 354 Fresh. Rhet. 52b Foods 606		German 132 French 152b English 66	French 152b
11:10	Chem. 352b Org. Chem. 622		Fresh. Rhet. 52c German 102b German 104b Inv. Zool. 402 Sanitation 612	German 102b
AFTERNOON				
1:00 to 3:00	Designing 601 Botany 414		Fresh. Chem. 352a Foods 606	
3:00 to 5:00	Textiles 604		Fresh. Chem. 352b Househ. Chem. 624	

COMBINATION COURSES.*I. WITH THE OHIO STATE UNIVERSITY.*

By special arrangement concluded with the Ohio State University on January 27, 1914, 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 or Bachelor of Philosophy 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 Uni-

versity of Akron for at least three years and who has not gained at least 96 semester 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 semester 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 or Bachelor of Philosophy.

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 semester 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	2	English 52	2
Mod. Lang.	3 or 4	Mod. Lang.	3 or 4
Chem. 351 or 353	4	Chem. 352 or 354	4
Mech. Draw. 331	4	Desc. Geom. 332	4
Mathematics 301	4	Mathematics 302	4
	<hr/>		<hr/>
	17 or 18		17 or 18

Second Year

First Semester		Second Semester	
English 53	2	English 54	2
Invert. Zool. 401	4	Botany 414	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
	<hr/>		<hr/>
	15 or 16		15 or 16

Third Year

First Semester	Second Semester
Polit. Economy 251.....3	Sociology 252 .....3
Physics 341 .....4	Physics 342 .....4
Vert. Zool. 403 .....4	Botany 413 .....4
Geology 323 .....3	Astronomy 320 .....3
14	14

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
Agronomy .....4
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 throughout the year, from any of the courses related to the previous year's work in the College of Agriculture.

2. *WITH WESTERN RESERVE MEDICAL SCHOOL
THE ARTS-MEDICINE COMBINATION COURSE*

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 and at the end of seven years, the degree of Doctor of Medicine will be given by Western Reserve University.

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

(If one year of High School physics has been presented for college entrance, then one-half of the above college physics will fulfill the requirements.

(C) Biology; Zoology and Botany: The equivalent of at least one year of collegiate work of a value of not less than 8 semester hours, of which at least 2 (or 4) 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 9 semester hours, all in one of these subjects. One unit of High School work may be counted as three semester hours of this requirement, but at least six semester 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., 12 hours, German or French sufficient to make with freshman work a total of at least 9 semester 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.)

3. COMBINATION COURSES WITH OTHER SCHOOLS

With Medical Schools

The University of Akron will enter into combination courses with any of the Medical Schools in the A Plus class, as fixed by the standards of the American Medical Association. These schools are: Leland Stanford, Uni-

versity of California, Yale, Northwestern University, Rush, Indiana University, University of Iowa, Tulane, Johns Hopkins*, Harvard, University of Michigan, University of Minnesota, Washington University, Columbia, Cornell, University and Bellevue Hospital Medical College of New York, Syracuse University, University of Cincinnati, Reserve, University of Pennsylvania, University of Texas, University of Virginia.

With Other Professional and with Technical Schools.

The University of Akron is willing to give the opportunity for Combination Courses with any graduate or professional school of the first class. 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.

While the University of Akron maintains a College of Engineering with five year courses on the co-operative plan (Cincinnati plan), yet the College of Liberal Arts will gladly offer opportunity to students who desire to enter upon a combination course with regular four year technical schools. Such a course usually requires five years' time, three years at the University of Akron and two years at the technical school. In these combination courses, however, the degree of the University of Akron is not given until the end of the fifth year.

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 com-

*Johns Hopkins requires a college degree for entrance.

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.

DEPARTMENT OF CIVIC CO-OPERATION

The Department of Civic Co-operation has been established 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 such 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. This help is meant to supplement and guide the work of such city departments (or even private enterprises) as may find expert or technical advice of value in conducting their work.

While the Department is not primarily organized as a teaching unit of the University, yet one of its main 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 of the University for purely theoretical work. The Department considers this training as one of the most important branches of its activity.

DIVISIONS OF THE DEPARTMENT.

The work of the Department 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 has assumed entire charge of the testing work of the city. This work covers chemical and physical tests for various city departments and bacteriological tests for the Board of Health and the Water Department.

The Bureau is located in the Knight Chemical Laboratory and will co-operate with the Department of Chemistry in bringing students in advanced courses in chemistry into touch with city work by giving them the actual problems of the city for solution as a part of their regular class work. The Bureau will also offer a course in bacteriology in the School of Home Economics.

The Bureau of Industrial Chemical Research.

CHARLES M. KNIGHT, A. M., SC. D., DIRECTOR.

K. DOLBEER SMITH, B. S.

The organization of this Bureau is now being perfected and active work will be begun in September, 1914. The scope of its activities will include the solution of chemical problems of general civic interest and of problems submitted by manufacturers and private individuals. To these a small charge, covering time and materials, will be made.

It is believed that intelligent co-operation along these lines will be of benefit not only to the city at large, but also to individuals and small manufacturers whose business does not warrant the establishment of a private laboratory.

*II. CO-OPERATIVE WORK BY DEPARTMENTS
OF THE UNIVERSITY WITH THE CHARITY
ORGANIZATION AND BOARD OF HEALTH.*

Under the joint direction of the Head of the Department of Economics and Political Science and the Director of City Charities, work is being carried out by University stu-

dents in investigating housing conditions in Akron's congested districts. Such work is counted as laboratory practice in certain courses offered by the above department. The results are tabulated by the card system and submitted to the Board of Health, which has requested that a complete survey of the city be made in this manner. The Board of Health has found the information thus gained to be of practical value in directing the work of its inspectors and of the Building Inspection Department and has added to the value of student workers by conferring on them the legal powers of sanitary inspectors.

With the Akron City Council.

At the request of the Akron City Council a comprehensive survey of paving conditions in the city will be made by the College of Engineering during the present year. The work will embrace reports on the present condition, cost and durability of the pavements of the City of Akron; the advisability of adopting the direct method of pavement construction; the cost and adaptability to various classes of traffic of the different pavement types now in general use.

REGISTER OF STUDENTS OF BUCHEL COLLEGE

For 1913-1914.

Students whose names are starred are not in full class standing.

SENIOR CLASS.

Alexander, Glenn F.	P.....	Wadsworth
Allen, Juliette	P.....	Akron
Barnette, Leroy T.	S.....	Akron
Bruederlein, Rilla M.	S.....	Akron
Caswell, Earle Warren	S.....	Perry, N. Y.
Curtice, Nelia	C.....	Akron
Harter, Ruth Belden	P.....	Akron
Herriff, Dene	P.....	Kent
*Hockensmith, Farlin L.	S.....	Wadsworth
Jarvis, Ellen Douglas	P.....	Akron
Joy, Mildred	P.....	Akron
Kraus, Charles M.	P.....	Akron
*Miller, Eva Irene	P.....	Akron
Roach, Alberta	P.....	Akron
Sidnell, Albert Edward	S.....	Cuyahoga Falls
*Stauffer, Velma Pauline	P.....	Sharon Center
Theiss, Lily May	C.....	Akron
Voris, Marion	P.....	Akron
*Weber, Lyman	S.....	Hudson
Westley, Helen I.	P.....	Corry, Pa.
Wilson, Robert F.	S.....	Akron

Seniors—21

JUNIOR CLASS.

Adams, Charles H.	S.....	Lisbon
Bowman, Eleanor Margaret	P.....	Akron
Bruner, George	S.....	Akron
Carter, J. Bernice	S.....	Akron
Conger, Sidney	S.....	Akron
Cooper, William	S.....	Akron
Crisp, Park	S.....	Akron
Dowell, Leora Isabelle	S.....	Warwick
Ellis, Harold	S.....	Canton
Fleming, Ina	P.....	Akron
*Foltz, Will W.	S.....	Akron
Hanna, Lloyd	S.....	Akron
*Hillman, Harry	P.....	Akron
*Limbert, Clinton	S.....	Akron
Miller, Gertrude	P.....	Massillon
*Moutes, George	S.....	Wadsworth
Murphy, Effie	P.....	Akron
Ranney, Arthur	S.....	Akron

Sammarone, Salvan	P.....	Akron
Spencer, Elmer L.	S.....	Akron
Strandberg, Carl	P.....	New Lyme
Taylor, Raymond S.	S.....	Akron
Thomas, Joseph	P.....	Akron
Tomlinson, Sprague	S.....	Perry, N. Y.
Waldsmith, Ralph G.	S.....	Akron
Weaver, Pauline	P.....	Wadsworth
Wilhelm, Ruth	P.....	Akron

Juniors—27

SOPHOMORE CLASS.

Allen, Ann E.	P.....	Akron
Barnhart, Alfred	P.....	Akron
*Cahill, George Frederick	S.....	Akron
*Chisnell, Carl Clarence	S.....	Akron
Crawford, Porter H.	S.....	Seville
Dresher, Elizabeth	P.....	Akron
*Dwyer, Helen G.	P.....	Akron
Frese, Lawrence	S.....	Akron
Frick, Carl E.	S.....	Akron
Glock, Clementine	P.....	Akron
Goodyear, Clarence	C.....	Akron
Grismer, Karl H.	S.....	Akron
*Hardman, Bert	S.....	Leavittsburg
Heath, Mabelle	P.....	Cuyahoga Falls
*Hower, John B.	S.....	Akron
Hull, Lois	P.....	Akron
*Hunsinger, Lucetta	P.....	Barberton
Johnson, David J.	S.....	Akron
Johnson, Ralph Winslow	S.....	Akron
Joy, Josephine Tremont	C.....	Akron
Mairot, Edna	P.....	Akron
Marlow, Roy Glenn	S.....	Kent
Mignin, Louise A.	P.....	Stryker
*Miller, Rhea Kathryn	P.....	Akron
Motz, Hubert W.	S.....	Cuyahoga Falls
Musser, Philip Sumner	C.....	Akron
Palmer, Clarence	S.....	Akron
Pfahl, Eva	P.....	Akron
*Pfeiffer, Don	S.....	Akron
Pouchot, Arthur	S.....	Akron
*Roach, Leonard N.	S.....	Clinton
Roßner, Eva M.	P.....	Akron
*Schaeffer, Carl H.	S.....	Akron
*Schubert, Minerva	P.....	Barberton
*Shea, Joseph	S.....	Akron
Sickler, Clement	P.....	Barberton
*Smith, Eleanor	P.....	Akron
*Smith, Willson	P.....	Akron
Sours, Harold	S.....	Barberton
Stump, Nellie Ruth	P.....	Akron

Taylor, George Irvin	S.....	Akron
*Tibbitts, Marion	P.....	Akron
Warner, Raymond	S.....	Barberton
Willson, Irene	P.....	Akron
Yackee, Bert	S.....	Barberton

Sophomore—45

FRESHMAN CLASS.

Arbogast, Frederick	S.....	Akron
Azar, Robert Isaiah	S.....	Akron
Babcock, Mabel	P.....	Akron
Barnes, Winifred Rosamund	P.....	Tallmadge
Bauman, Cleon	P.....	Akron
Bishop, Mildred	P.....	Akron
Bradley, George	S.....	Kent
Bridgewater, Ernest	P.....	Akron
Brown, Donald	S.....	Cuyahoga Falls
Buckingham, Edward	P.....	Akron
Burkman, Anne	P.....	Akron
Carlton, Clinton A.	S.....	Medina
Cleaver, Josephine	P.....	Akron
Conger, Helen	P.....	Akron
Conrad, Don	S.....	Akron
Cramer, M. Paul	P.....	Akron
Darrab, David Harley	P.....	Akron
Driesbach, Charles Oliver	S.....	Akron
Duff, David Franklin	S.....	Cambridge
Duncan, Ruth	P.....	Akron
Dunn, Elvira Inez	P.....	Akron
Eberhardt, Ernest	S.....	Barberton
Farst, Helen	P.....	Akron
Feederle, Carl P.	S.....	Akron
Fleming, Rachel	P.....	Akron
Freeder, Arthur	P.....	Pittsburgh, Pa.
Freedlander, Samuel	C.....	Akron
Frederick, Inez	P.....	Copley
Gable, Norris Leroy	S.....	Akron
Geer, Wilford	P.....	Akron
Geisinger, Elliott	S.....	Akron
Gillen, Francis	C.....	Akron
Grandin, Louise	P.....	Westfield, N. Y.
Hammond, R. Merrill	C.....	Corry, Pa.
Happoldt, Russell	P.....	Cuyahoga Falls
Hardie, Julia	P.....	Akron
Holcombe, Albert	P.....	Akron
James, Julius Max	S.....	Cuyahoga Falls
Kasch, Richard	S.....	Akron
Kittelberger, Fred	S.....	Akron
Kneale, Sterling E.	S.....	Akron
Knowlton, John	S.....	Akron
Kuntz, Harry	P.....	Akron
Lawson, Roy M.	P.....	Akron
Lelansky, Kenneth	S.....	Akron

Magennis, Frank	S	Akron
Malaney, Edward	S	Wadsworth
Mallory, Helen	P	Cuyahoga Falls
Mellin, Clifton	P	Stowe
Mertz, Ray	S	Akron
Morar, Lucretia	P	Akron
Nollan, Ralph	S	Akron
Olin, Esther Eileen	P	Akron
Owen, Carl	S	Akron
Palmer, Russell	S	Akron
Patton, Cuyler S.	S	Akron
Pfahl, Helen	P	Akron
Pokras, Samuel	P	Akron
Poules, Ira	S	Akron
Quinlan, Dorothy	P	Akron
Raymond, Ralph	P	Akron
Reed, J. Brooke	S	Mt. Vernon
Richardson, Marion	P	Cuyahoga Falls
Rood, De Forest	S	Akron
Roth, Samuel	S	Cleveland
Santom, Baldwin	S	Akron
Schieb, Ray Kenneth	S	Akron
Simms, Mrs. Hazel	P	Akron
Slabaugh, Harold	P	Akron
Smith, Arnold	S	Akron
Sperry, Marian	P	Tallmadge
Squibbs, Hubert	S	Mantua
Stansfield, Percy	S	Akron
Sturgeon, Frances	P	Akron
Swinehart, Park	S	Akron
Thierry, James	S	Akron
Thornton, Dwight G.	P	Akron
Tobin, Dorothy M.	P	Akron
Tobin, Honora	P	Akron
Vanderhoof, M. Pauline	P	Wadsworth
Wagner, Earl	S	Akron
Walters, Clyde S.	P	Hicksville
Weeks, Conrad S.	S	Canton
Wellock, T. Howard	S	Akron
Wells, Margaret	P	Creston
Weltner, Adolph	S	Cuyahoga Falls
Weygandt, Frances	P	Akron
White, Dorothy	P	Akron
Wilhelm, Walter Charles	P	Akron
Work, Ray	S	Akron
Yeager, Frederick C.	S	Girard, Pa.

Freshmen—91

SPECIAL STUDENTS.

Anderson, Ellen	Oil City, Pa.
Boyd, Marie	Akron
Chinery, Willett S.	Staten Island, N. Y.

Easton, M. Lucille	Akron
Harpham, Lois Emma	Akron
Higgs, John L.	Moundsville, W. Va.
Hugi, William Edgar	Marietta
Kasch, Ruth	Akron
Mapes, George Chandler	Akron
Murphy, Irene Veronica	Akron
Neff, Mrs. Katherine S.	Akron
Phelps, Arthur Lee	Cleveland
Ross, Donald	Akron
Seger, Gaylord	Kent
	Specials—14

SUMMARY

	Men	Women	Total
Senior Class	8	13	21
Junior Class	19	8	27
Sophomore Class	27	18	45
Freshman Class	64	27	91
Special Students	7	7	14
Total Men			125
Total Women			73
Total Students			198

DEGREES CONFERRED.

CLASS OF 1913

Bachelor of Arts

HATTIE B. BASTIAN Cuyahoga Falls
HELEN MARIE PARKER Akron

Bachelor of Philosophy

EVELYN CHURCH Akron
CLARA VERE ESGATE Akron
RUTH FIEBEGER Akron
GLADYS JANET GARY Akron
JOHN C. GRIMM Akron
HELEN MOORE HACKETT Akron
HARRY A. INSKEEP Cuyahoga Falls
SARAH ESTELLA OLIN Akron
RUTH HALL PRIEST Akron
MAY I. RINEHART Akron
HARRIETT ADELE SIMMONS Leroy
PETER PAUL VITTEL Medina
MILDRED LETITIA WAY Akron

Bachelor of Science

MYRTLE A. ALTON Watertown, Canada
WALTER D. GILBERT Atwater
KIMBALL DOLBEER SMITH Perry, N. Y.
MAX MORRIS Billaya Tezerkov, Russia
JOSEPH ULRICH Akron
In combination with Western Reserve Medical School
GUY ZIMMERMAN Akron

DEGREES IN ABSENTIA

Bachelor of Science

CLARENCE E. MANKIN (in combination with Case School)
..... Wadsworth
VERNE READ (in course) Akron

Master of Science.

ELVAH H. GRAFTON (in course) Barberton

BUCHTEL COLLEGE ALUMNI ASSOCIATION.

Organized July, 1874.

Incorporated October 19, 1899.

OFFICERS FOR 1913-1914

President, DR. E. B. FOLTZ, '96.....Akron
 Vice Presidents, WILLIAM P. PUTNAM, '93Detroit, Mich.
 JAMES FORD, '86Washington C. H.
 Secretary, AGNES WHITON SIMMONS, '06.....Akron
 Treasurer, HAZEL L. COLE, '09.....Akron

ALUMNI BOARD OF TRUSTEES

Officers

DR. E. B. FOLTZ, '96.....President ex-officio
 AGNES WHITON SIMMONS, '06Secretary ex-officio
 HAZEL L. COLE, '09Treasurer ex-officio

Term Expiring June, 1914

MRS. E. F. VORIS, '77Akron
 CHARLES O. RUNDELL, '98Akron
 ARTHUR E. WARNER, '03Akron
 HOWARD ROHAN, '10Akron

Term Expiring June, 1915

DR. PARKE R. KOLBE, '01Akron
 FRANK GOEHRING, '08Akron
 CLARA F. BROUSE, '06Akron
 MAUDE HERNDON, '01Akron

Term Expiring June, 1916

MRS. SUSIE C. COLE, '73Akron
 CLARENCE C. CARLTON, '04Akron
 MRS. A. A. KOHLER, '93Akron
 DR. L. R. C. EBERHARD, '93Akron

Annual meeting of the Association, June 17, 1914, 2:00 P. M.

Stated meetings of the Alumni Board of Trustees; the third Thursday evening of November, February and May.

PRIZES.

THE ALUMNI PRIZES

Awarded for excellence in scholarship.

1912-1913.

In Senior Preparatory Class to Dwight Thornton.
 In Freshman Class to George I. Taylor.
 In Sophomore Class to Eleanor Bowman.
 In Junior Class to Lily Theiss.

THE OLIVER C. ASHTON PRIZES

Awarded for excellence in declamation.

1912-1913.

In the Junior Class; First prize to Rilla Bruederlein; second prize to Glenn Alexander.

1913-1914

In Senior Class: No contest.
 In Sophomore Class: First prize to R. Kathryn Miller; second prize to David Johnson.
 Junior Contest held after date of publication.

SECONDARY SCHOOL SCHOLARSHIPS.

Awarded for excellence in scholarship.

June, 1913

Akron Central High to Arnold Smith and Kenneth H. Lelansky.
 Buchtel Academy to Robert Azar.
 Cuyahoga Falls to Helen Mallory.
 Stowe to Clifton Mellin.
 Mantua to Hubert Squibbs.
 Copley to Inez Frederick.

GIFTS AND DONATIONS.

CASH DONATIONS

Endowment subscriptions\$20,000

GIFTS TO THE LIBRARY, 1913-1914

	Vol.
American Bar Association	1
Chemical Publishing Co.	1
Ebbert, Miss Dessa	2
Government, United States	17
Gregory, Dr. Emily Ray	1
Library of Congress	3
Morris, Rev. Edward—Estate	125
Ohio Constitutional Convention	1
Ohio, State of	5
Rockwell, Dr. J. C.	12
Spanton, Dean A. I.	10
Stebbins, Mrs. M. J.	4
Sturtevant, Prof. F. D.	5
Thompson, Mrs. E. A.	1
U. S. Brewer's Association	1
Stebbins, Mrs. M. J., four subscriptions to magazines for 1914.	
Tomlinson, Irving C., three subscriptions to magazines for 1914.	
Messrs. Tomlinson, Walker and Herberich, subscription to Christian Science Monitor.	

INDEX.

SUBJECT	PAGE
Absence Rules	26
Administrative Officers	9
Admission to University	22
Admission to School of Home Economics	112
Advanced Standing	24
Aim	16
Alumni Association	147
Analytical Mechanics	94
Ashton Prizes	19
Astronomy	90
Athletics	22
Bacteriology	123
Bierce Library	18
Biology	100, 122
Board of Directors	9
Botany	100
Buchtel College	16, 32
Bureau of City Tests	138
Bureau of Industrial Chemical Research	139
Calendar	7
Change of Course	27
Chemistry	96, 121
Civic Co-operation	17, 138
Classical Archeology	60
Classical Course	50
Classical Mythology	61
College of Engineering	17, 110
Combination Courses	17, 130
" " with Ohio State Univ.	130
" " " W. R. U. Medical School...	133
" " " other schools	135
Committees of Faculty	14
Conditions	26
Co-operative Work by Univ. Depts.	139
Courses of Study in Buchtel College	50
Course of Study (Home Economics)	112
Curtis School of Home Economics	17, 112
Degrees Conferred in 1913	146
Degrees in Buchtel College	54
Degrees in Home Economics	114
Departments of Instruction (Buchtel College)	58

SUBJECT	PAGE
Departments of University	16
Description of Entrance Units	40
Dynamos and Motors	96
Economics	84, 120
Election in Other Schools	27
Elective Subjects	38
Embryology	101
Endowments	34
Engineering College	17, 110
English	67, 115
Entrance at Mid-year	39
Entrance Requirements	37, 112
Equipment	18
Ethics	82
Expenses	30
Faculty, General	10
Faculty of Buchtel College	33
Failure	27
Fees, General Statement	28
Fees in Buchtel College	57
Fees in Home Economics	114
Foundation	15
Free Tuition	20
French	79, 119
Funds	18
General Information	15
General Staff	13
Geology	90
German	72, 117
Gifts	149
Greek	59
Greek Sculpture	60
Histology	102
History	86, 120
Home Economics	17
Home Economic Subjects	123
Hydraulics	95
Hygiene	103
Incorporators of Buchtel College	32
Katherine Claypole Fund	18
Latin	61

SUBJECT	PAGE
Logic	83
Master's Degree	54
Mathematics	87
Mechanical Drawing	91, 123
News Writing	66
Organization of Faculty	14
Philosophical Course	51
Phi Sigma Alpha	21
Physical Training	103, 125
Physics	93
Physiology	102
Political Science	84
Presidents of Buchtel College	32
Prizes	18
Prizes Awarded in 1913	148
Promotion	28
Psychology	81
Public Speaking	70, 116
Register of Students	141
Registration	24
Regulations	25, 55
Required Studies	50, 113
Rhetoric	64
Schedule of Classes in Buchtel College	106
Schedule of Classes (Home Economics School)	126
Scholarships	20, 36
Scientific Course	53
Self Help	30
Senior Alumni Prize	19
Sociology	84, 120
Spanish	81
Special Students	23
Steam and Gas Engines	95
Strength of Materials	94
Student Organizations	21
Subjects of Instruction (Buchtel College)	58
Subjects of Instruction (Home Econ. School)	115
Surveying	89
Table of Contents	2
Tomlinson Prizes	1
Zoology	1