The Municipal University of Akron

AKRON, OHIO

MARCH, 1917

ANNUAL CATALOG

1917

PUBLISHED BY
THE MUNICIPAL UNIVERSITY OF AKRON
Fourth Annual Catalog of The Municipal University of Akron

And Forty-Sixth Annual Catalog of Buchtel College

AKRON, OHIO
March, 1917
# TABLE OF CONTENTS

## PART I

*General Information*

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar</td>
<td>7</td>
</tr>
<tr>
<td>Board of Directors</td>
<td>9</td>
</tr>
<tr>
<td>Administrative Officers</td>
<td>9</td>
</tr>
<tr>
<td>General Faculty and Officers</td>
<td>10</td>
</tr>
<tr>
<td>Committees of the Faculty</td>
<td>14</td>
</tr>
</tbody>
</table>

## General Information—

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation</td>
<td>15</td>
</tr>
<tr>
<td>Aim</td>
<td>16</td>
</tr>
<tr>
<td>Departments</td>
<td>16</td>
</tr>
<tr>
<td>Combination Courses</td>
<td>17</td>
</tr>
<tr>
<td>Equipment</td>
<td>18</td>
</tr>
<tr>
<td>Bierce Library</td>
<td>18</td>
</tr>
</tbody>
</table>

## Funds, Prizes and Scholarships—

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine Claypole Loan Fund</td>
<td>19</td>
</tr>
<tr>
<td>Ashton Prizes</td>
<td>19</td>
</tr>
<tr>
<td>Senior Alumni Prize</td>
<td>19</td>
</tr>
<tr>
<td>Tomlinson Prizes</td>
<td>20</td>
</tr>
<tr>
<td>Buchtel College Scholarships</td>
<td>20</td>
</tr>
<tr>
<td>Free Tuition</td>
<td>21</td>
</tr>
<tr>
<td>Student Organizations</td>
<td>21</td>
</tr>
<tr>
<td>Bureau of Student Employment</td>
<td>21</td>
</tr>
<tr>
<td>Phi Sigma Alpha</td>
<td>22</td>
</tr>
<tr>
<td>Athletics</td>
<td>22</td>
</tr>
</tbody>
</table>

## Admission—

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Students</td>
<td>23</td>
</tr>
<tr>
<td>Advanced Standing</td>
<td>24</td>
</tr>
</tbody>
</table>

## Registration—

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Regulations</td>
<td>25</td>
</tr>
<tr>
<td>Fees</td>
<td>26</td>
</tr>
<tr>
<td>Expenses for Living</td>
<td>28</td>
</tr>
</tbody>
</table>

## Self Help—

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>
# PART II

*Buchtel College of Liberal Arts*

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation, Incorporators, Presidents</td>
<td>30</td>
</tr>
<tr>
<td>Endowments</td>
<td>31</td>
</tr>
<tr>
<td>Perpetual Scholarships</td>
<td>32</td>
</tr>
<tr>
<td>Entrance Requirements</td>
<td>33</td>
</tr>
<tr>
<td>Description of Entrance Units</td>
<td>36</td>
</tr>
<tr>
<td>Courses of Study and Degrees</td>
<td>44</td>
</tr>
<tr>
<td>Thesis</td>
<td>47</td>
</tr>
<tr>
<td>Master's Degree</td>
<td>47</td>
</tr>
<tr>
<td>Fees</td>
<td>48</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>49</td>
</tr>
<tr>
<td>Greek</td>
<td>50</td>
</tr>
<tr>
<td>Classical Archeology</td>
<td>50</td>
</tr>
<tr>
<td>Latin</td>
<td>51</td>
</tr>
<tr>
<td>Rhetoric</td>
<td>53</td>
</tr>
<tr>
<td>English Language and Literature</td>
<td>55</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>59</td>
</tr>
<tr>
<td>German</td>
<td>61</td>
</tr>
<tr>
<td>French</td>
<td>67</td>
</tr>
<tr>
<td>Spanish</td>
<td>68</td>
</tr>
<tr>
<td>Mental and Moral Philosophy</td>
<td>69</td>
</tr>
<tr>
<td>Logic</td>
<td>70</td>
</tr>
<tr>
<td>Social Science</td>
<td>70</td>
</tr>
<tr>
<td>History</td>
<td>72</td>
</tr>
<tr>
<td>Mathematics</td>
<td>74</td>
</tr>
<tr>
<td>Astronomy</td>
<td>76</td>
</tr>
<tr>
<td>Geology</td>
<td>76</td>
</tr>
<tr>
<td>Physics</td>
<td>77</td>
</tr>
<tr>
<td>Chemistry</td>
<td>78</td>
</tr>
<tr>
<td>Biology</td>
<td>80</td>
</tr>
<tr>
<td>Physical Education</td>
<td>84</td>
</tr>
<tr>
<td>Schedule of Classes</td>
<td>88</td>
</tr>
</tbody>
</table>
# PART III

*The College of Engineering and Department of Business Training*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td>92</td>
</tr>
<tr>
<td>Shop Work</td>
<td>93</td>
</tr>
<tr>
<td>Wages</td>
<td>94</td>
</tr>
<tr>
<td>Admission</td>
<td>94</td>
</tr>
<tr>
<td>Entrance Requirements</td>
<td>95</td>
</tr>
<tr>
<td>Courses of Study</td>
<td>95</td>
</tr>
<tr>
<td>Degrees</td>
<td>97</td>
</tr>
<tr>
<td>Fees</td>
<td>98</td>
</tr>
<tr>
<td>Expense Freshman Year</td>
<td>99</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>100</td>
</tr>
<tr>
<td>Schedule of Classes</td>
<td>114</td>
</tr>
<tr>
<td>Department of Business Training</td>
<td>116</td>
</tr>
</tbody>
</table>

# PART IV

*The Curtis School of Home Economics*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td>122</td>
</tr>
<tr>
<td>Admission</td>
<td>122</td>
</tr>
<tr>
<td>Entrance Requirements</td>
<td>123</td>
</tr>
<tr>
<td>Course of Study</td>
<td>123</td>
</tr>
<tr>
<td>Degrees</td>
<td>124</td>
</tr>
<tr>
<td>Fees</td>
<td>124</td>
</tr>
<tr>
<td>Subjects of Instruction</td>
<td>125</td>
</tr>
<tr>
<td>Schedule of Classes</td>
<td>130</td>
</tr>
</tbody>
</table>

# PART V

*Evening Classes and Lectures*

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission</td>
<td>134</td>
</tr>
<tr>
<td>Registration</td>
<td>134</td>
</tr>
<tr>
<td>Fees</td>
<td>135</td>
</tr>
<tr>
<td>Courses For 1917-1918</td>
<td>135</td>
</tr>
<tr>
<td>Schedule of Classes</td>
<td>147</td>
</tr>
<tr>
<td>The University Lectures</td>
<td>149</td>
</tr>
</tbody>
</table>
PART VI
Combination Courses

At the University of Akron .................. 151
With the Ohio State University .......... 151
  The Arts-Law Course ................... 152
  The Arts-Agriculture Course ............ 153
With Western Reserve Medical School .... 155
With Other Schools ....................... 157

PART VII
Training Course for Teachers

Four-year Combination Course .......... 158
Five-year Combination Course .......... 158

PART VIII
Community Co-operation

Divisions of Co-operative Work .......... 160
  Bureau of City Tests .................. 160
  Co-operative Work by Departments .... 162

PART IX
Miscellaneous

Register of Students
  Buchtel College ....................... 164
  College of Engineering ............... 168
  Curtis School of Home Economics .... 170
  Late Afternoon and Evening Classes .. 172
  Summary ................................ 175
Degrees Conferred ....................... 176
Public Addresses, Prizes and Honors ... 176-177
Alumni Association ..................... 178
Financial Report for 1916 .............. 181
Index ................................ 182
UNIVERSITY CALENDAR

1917

January 2, Tuesday, 7:30 A. M.—Class Work resumed.
January 18, Thursday—Founder's Day.
January 18, Thursday, 9:15 A. M.—Senior Ashton Prize Contest.
January 19 and 22, Friday and Monday—Classification for Second Semester.
January 29 to February 2—Final Examinations.
February 2, Friday, 5:00 P. M.—First Semester closes.
February 6, Tuesday, 7:30 A. M.—Second Semester begins.
February 16, Friday—Senior Promenade.
February 22, Thursday, Washington's Birthday—a holiday.
March 9, Friday, 9:15 A. M.—Sophomore Ashton Prize Contest.
March 31, Saturday, 12:00 noon—Easter Recess begins.
April 10, Tuesday, 7:30 A. M.—Class Work resumed.
May 17, Thursday—General Student Elections.
May 25, Friday—Tree Day.
May 30, Wednesday—Memorial Day—a holiday.
June 8, Friday, 9:15 A. M.—Junior Ashton Prize Contest.
June 9, Saturday—Senior Vacation begins.
June 11-15—Final Examinations.
June 17, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
June 18, Monday, 10:00 A. M.—Senior Class Day Exercises.
June 18, Monday, 8:00 P. M.—Junior Hop.
June 19, Tuesday, 3:00 P. M.—Out-of-door play by the Dramatic Study Club.
June 19, Tuesday, 8:00 P. M.—President's Reception.
June 20, Wednesday, 9:30 A. M.—Commencement Exercises.
June 20, Wednesday, 8:00 P. M.—Alumni Banquet.
September 17, Monday—Registration and Classification.
September 19, Wednesday, 7:30 A. M.—Class Work begins.
September 27—Freshman Elections.
November 28, 30 and December 1, Thursday, Friday and Saturday—Thanksgiving Recess.
December 19, Wednesday, 5:00 P. M.—Christmas Holidays begin.

1918

January 2, Wednesday, 7:30 A. M.—Class Work resumed.
January 18, Friday—Founder's Day.
January 18, Friday, 9:15 A. M.—Senior Ashton Prize Contest.
January 18 and 21, Friday and Monday—Classification for Second Semester.
January 28 to February 1—Final Examinations.
February 1, Friday, 6:00 P. M.—First Semester closes.
February 5, Tuesday, 7:30 A. M.—Second Semester begins.
February 15, Friday—Senior Promenade.
February 22, Friday, Washington's Birthday—a holiday.
March 8, Friday, 9:15 A. M.—Sophomore Ashton Prize Contest.
March 23, Saturday, 12:00 noon—Easter Recess begins.
April 3, Tuesday, 7:30 A. M.—Class Work resumed.
May 16, Thursday—General Student Elections.
May 24, Friday—Tree Day.
May 30, Thursday—Memorial Day—a holiday.
June 7, Friday, 9:15 A. M.—Junior Ashton Prize Contest.
June 8, Saturday, Senior Vacation begins.
June 10-14—Final Examinations.
June 16, Sunday, 2:30 P. M.—Baccalaureate Service, Crouse Gymnasium.
June 17, Monday, 10:00 A. M.—Senior Class Day Exercises.
June 17, Monday, 8:00 P. M.—Junior Hop.
June 18, Tuesday, 3:00 P. M.—Out-of-door play by the Dramatic Study Club.
June 18, Tuesday, 8:00 P. M.—President's Reception.
June 19, Wednesday, 9:30 A. M.—Commencement Exercises.
June 19, Wednesday, 8:00 P. M.—Alumni Banquet.
THE BOARD OF DIRECTORS

F. M. Cooke .. Term expires 1918
James P. Loomis .. Term expires 1918
J. Asa Palmer .. Term expires 1918
F. M. Harpham .. Term expires 1920
Albert A. Kohler .. Term expires 1920
Parke R. Kolbe .. Term expires 1930
P. W. Litchfield .. Term expires 1930
W. H. Eager .. Term expires 1930
Clyde F. Beery .. Term expires 1930

OFFICERS FOR 1916

F. M. Cooke .. Chairman
Charles R. Olin .. Clerk

COMMITTEES FOR 1916

Committee on Finance: Loomis, Harpham, Palmer.
Committee on Investments: Cooke, Kohler, Beery.
Committee on Buildings and Grounds: Kolbe, Litchfield, Eager.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

Parke R. Kolbe, Ph. D .. President of the University
Charles R. Olin, M. S .. Secretary of the University
Oscar E. Olin, A. M .. Vice President of the Faculty
M. Alice Rines, A. M .. Secretary of the Faculty
Albert I. Spanton, A. M .. Dean of Buchtel College of Liberal Arts
Fred E. Ayer, C. E .. Dean of the College of Engineering
Sarah E. Stimmel, B. S .. Director of the School of Home Economics
Elizabeth A. Thompson, A. M .. Dean of Women
Frederick Sefton, B. S .. Physical Director
Rena B. Findley .. Librarian
Gladys P. Weeks .. Registrar
GENERAL FACULTY AND OFFICERS

1916-1917

PARKE R. KOLBE, Ph. D.,
President of the University and Lecturer in Department of German Language and Literature.
President's House

CHARLES M. KNIGHT, A. M., Sc. D.,
Professor Emeritus of Chemistry
129 South Union Street

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

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

ALBERT I. SPANTON, A. M.,
Pierce Professor of English and Dean of Buchtel College
407 Vine Street

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

HEZZLETON E. SIMMONS, M. S.,
Buchtel Professor of Chemistry
448 Henry Court

FRED E. AYER, C. E.,
Professor of Civil Engineering and Dean of the College of Engineering
401 Brown Street

SARAH E. STIMMEL, B. S.,
Director of the School of Home Economics
169 Rhodes Avenue
UNIVERSITY OF AKRON

FREDERICK SEPTON, B. S.,
Director of the Department of Physical Education
803 West Market Street

CHARLES L. BULGER, A. M.,
Hilton Professor of German Language and Literature
72 Mayfield Avenue

AMON B. PLOWMAN, Ph. D.,
Professor of Biology
126 South Maple Street

MAX B. ROBINSON, M. E.,
Professor of Mechanical Engineering
286 Brown Street

M. ALICE RINES, A. M.,
Professor of Romance Languages
362 East Buchtel Avenue

ELIZABETH A. THOMPSON, A. M.,
Professor of History and Dean of Women
146 South College Street

CHARLES R. OLIN, M. S.,
Assistant-Professor of Mathematics and Secretary of the University
421 Spicer Street

FRANK D. STURTEVANT, A. M.,
Assistant-Professor of English
112 South Maple Street

ARDEN E. HARDGROVE, B. S.,
Assistant-Professor of Chemistry and Director of the Bureau of City Tests
137 Highland Avenue

WM. F. ZIMMERLI, Ph. D.,
Assistant-Professor of Chemistry
84 Kirkwood Street

GEORGE E. BENNETT, A. B., LL. B.,
Assistant-Professor of Business Training
362 Carroll Street

CARITA McEBRIGHT, A. B.,
Instructor in Oratory
396 East Market Street

J. S. MATHEWSON, M. E.,
Instructor in Engineering
283 East Buchtel Avenue
Edward von Janinski, A. M.,
Instructor in German
483 Orchard Court

Albert Phelps Tuller, A. B.,
Instructor in Classics and French
197 Speer Street

*Henri Morin, B. Com. Sci.,
Instructor in Romance Languages
75 Nebraska Street

Robert L. Sibley, A. M.,
Instructor in Chemistry
840 Ruth Avenue

Max Morris, A. M.,
Instructor in Mathematics
663 Mallison Avenue

*Julius Boenisch,
Instructor in Architectural Drawing
30 North Summit Street

Luke S. Brickley, A. B.,
Instructor in English and Faculty Manager of Athletics
259 Brown Street

Bernard W. Adams, B. S. in Engineering,
Instructor in Mathematics and Physics
433 Vine Street

Burt H. Yacker, B. S.,
Graduate Assistant in Chemistry
545 East Buchtel Avenue

*Mary H. Stedds,
Instructor in Physical Training for Women, Graduate
of New Haven Normal School of Gymnastics
777 Rhodes Avenue

Isabel A. Bradley, M. D.,
Medical Examiner for Women
221 Ash Street

Lectures on Hygiene for women were given in 1916-17
by Dr. A. B. Plowman of the Department of Biology.

The University acknowledges with gratitude the kindness
of Mr. W. R. Stuart, B. A., LL. B., of Youngstown, in presenting in the Department of Economics a series of lectures on Life Insurance.

*Part time instructors.
**STUDENT ASSISTANTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bruce McAadoo</td>
<td>Biology</td>
</tr>
<tr>
<td>Carl Schaeffer</td>
<td>Biology</td>
</tr>
<tr>
<td>Hubert Squibbs</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Esther Olin</td>
<td>Economics</td>
</tr>
<tr>
<td>Josephine Cushman</td>
<td>English</td>
</tr>
<tr>
<td>Martin Schmidt</td>
<td>English</td>
</tr>
<tr>
<td>Hazel Simms</td>
<td>German</td>
</tr>
<tr>
<td>Kenneth Darrah</td>
<td>Latin and Greek</td>
</tr>
<tr>
<td>Josephine Cushman</td>
<td>Library</td>
</tr>
<tr>
<td>Ira Poules</td>
<td>Library</td>
</tr>
<tr>
<td>Julia Hardie</td>
<td>Library</td>
</tr>
<tr>
<td>Robert Rowse</td>
<td>Physics</td>
</tr>
<tr>
<td>Lois Hull</td>
<td>Romance Languages</td>
</tr>
<tr>
<td>Elliott Geisinger</td>
<td>Bureau of City Tests</td>
</tr>
<tr>
<td>Aubrey Wendt</td>
<td>Bureau of City Tests</td>
</tr>
<tr>
<td>Earl Gudikunst</td>
<td>Bureau of City Tests</td>
</tr>
</tbody>
</table>
COMMITTEES OF THE FACULTY

1916-1917

Executive Committee
Kolbe, O. E. Olin, Spanton, Ayer

Classification and Records
Buchtel College—Rockwell, Spanton, Bulger,
Simmons, Sidley, Morris

College of Engineering—Rockwell, Ayer

Curtis School of Home Economics—Rockwell, Stimmel

Public Speaking
Mathewson, Brickley, McEbright

Socials and Holiday Observances
Thompson, Stimmel, Zimmerli

Athletics
Bulger, von Janinski, Septon, C. R. Olin, Brickley

Buildings and Grounds
C. R. Olin, Robinson

Assembly Observance
Flowman, O. E. Olin

Student Council
Simmons, Zimmerli, Tuller

Library
Sidley, Spanton, Findley

Evening Courses
Lockner, Bennett

Extension Lectures
Rockwell

Faculty Representatives for Student Activities
Buchtelite ....................................... Sturtevant
Elections ........................................ Simmons
Athletics .......................................... Brickley
Men's Club Room ............................... Zimmerli
Women's Club Room ............................ Thompson
GENERAL INFORMATION

FOUNDATION

The Municipal University of Akron was created by an ordinance of the Akron City Council, passed on August 26, 1913. This ordinance accepted in behalf of the city the offer of the Trustees of Buchtel College to give to the city the entire plant and endowment of the college as the nucleus of a municipal university, the Council promising in behalf of the city to support properly the new institution thus created. After the transfer of property had been completed by President Kolbe and Secretary Olin for the Trustees of Buchtel College, Mayor Rockwell on December 15, 1913, together with City Solicitor Taylor, accepted the deeds of transfer in behalf of the city and appointed nine citizens of Akron as members of the Board of Directors of the Municipal University of Akron.

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

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

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

AIM OF THE UNIVERSITY

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

- Buchtel College of Liberal Arts.
- The College of Engineering.
- The Curtis School of Home Economics.

BUCHTEL COLLEGE OF LIBERAL ARTS

(See page 30)

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

THE COLLEGE OF ENGINEERING

(See page 92)

This College was opened in September, 1914, and during its first year received only the entering or first year class.
Courses in various branches of engineering are being developed. Courses are also offered in business training on the co-operative plan.

**THE CURTIS SCHOOL OF HOME ECONOMICS**  
(See page 122)

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

**EVENING COURSES**  
(See page 134)

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

**COMBINATION COURSES**  
(See page 151)

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

A course for the preparation of teachers has also been arranged in combination with the City (Perkins) Normal School. (See page 158.)

**COMMUNITY CO-OPERATION**  
(See page 160)

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

**EQUIPMENT**

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

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

**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 recog-
nition of this early gift the Library has been called the Bierce Library. It embraces about 13,000 volumes, exclusive of public documents, and occupies the Carl F. Kolbe Hall.

Funds, Prizes and Scholarships

The Katherine Claypole Loan Fund

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

The principal of the fund is loaned to students “who in mid-term, as often happens, find themselves without sufficient means to complete the year's work.” Applications should be addressed to Mrs. 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 Lib-
eral Arts who has completed the regular four-year course with the highest average grade. Only students who have spent their entire course at Buchtel College are eligible.

The Tomlinson Prizes

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

Buchtel College Scholarships

(See page 32)

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

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

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

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

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

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

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

STUDENT ORGANIZATIONS

The following student organizations have been formed in the University:

The Athletic Association; the Women's League; the Tel-Buch Association (Junior Class); the College Orchestra; the Buchtelite Association; the Dramatic Study Club; the Chemistry Club; the Modern Authors' Club; the Engineer's Club; the Camera 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.

THE BUREAU OF STUDENT EMPLOYMENT

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

**PHI SIGMA ALPHA**

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

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

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

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

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

The colors of the fraternity are green and silver.

**ATHLETICS**

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

**ADMISSION**

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, and no student from the Akron High Schools will be admitted with less than 16 units without the recommendation of the Superintendent of Schools.

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 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 examinations as specified by the Faculty.

**SPECIAL STUDENTS**

Students over 21 years of age who have not fulfilled the entrance requirements may be admitted as *special*

*Examinations will be required in subjects presented for admission with grades below 70%.*
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, will 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 1917-1918 will be Sept. 17 and 18; for the second semester, January 18 and 21.

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 required 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 Registrar.

*Procedure for registration and classification*

1. Fill out registration card.

---

*This refers to registration for all work except evening classes. For these see page 134.*
2. a. If a new student, present yourself to the Committee on Entrance; then see the Classification Committee of the school to be entered.

   b. If not a new student, take registration card to the Classification Committee of the school to be entered.

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

GENERAL REGULATIONS

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

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

Freshman Failure—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 examinations as specified by the Faculty.

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

Curtis School of Home Economics—Students in Buchtel College may elect a maximum of twenty hours' work in the Curtis School to be applied toward the requirements for graduation from Buchtel College.
College of Engineering—Students in the scientific course in Buchtel College may elect the following subjects in the College of Engineering to be applied toward the requirements for graduation from Buchtel College. The subjects must be elected in groups of two:

- Mechanical Drawing 811 ........... 4 hours
- Descriptive Geometry 812 ........ 4 "
- Strength of Materials 815 ........ 3 "
- Applied Mechanics 816 ............ 3 "
- Electricity 833, 834 ................ 6 "
- Electricity Lab. 835, 836 .......... 4 "
- Hydraulics 820 .................... 3 "

Total .................................. 27 hours

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

FEES

Resident Students—All students who are residents of the City of Akron according to the rules adopted by the Board of Directors (see "Free Tuition," page 21), or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay an incidental fee of $10.00 per semester, covering registration, incidentals and student activity fee. If not paid before September 25 of the first semester, or February 12 of the second semester, the fee is $12.50 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. (See pages 48, 99, 124.)

Non-resident Students—The tuition for non-resident students is $40.00 per semester in the College of Liberal Arts and the School of Home Economics, in addition to the incidental fee of $10.00 per semester. The tuition for co-operative students in engineering is $30.00 per semester plus the
regular incidental fee of $10.00 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. If not paid before September 25 of the first semester or February 13 of the second semester the tuition fee is $35.00 in the Engineering College and $45.00 in other departments and the incidental fee is $12.50.

SUMMARY OF FEES

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

Tuition Fee—
For residents of Akron: free.
For non-residents per semester:

<table>
<thead>
<tr>
<th>Hours per Week</th>
<th>If paid before Sept. 25</th>
<th>If paid between Sept. 25 and Nov. 1 or Feb. 12 and April 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 8 hours per week</td>
<td>$40.00</td>
<td>$45.00</td>
</tr>
<tr>
<td>From 5 to 8 hours per week</td>
<td>25.00</td>
<td>27.50</td>
</tr>
<tr>
<td>3 or 4 hours per week</td>
<td>15.00</td>
<td>17.50</td>
</tr>
<tr>
<td>1 or 2 hours per week</td>
<td>8.00</td>
<td></td>
</tr>
</tbody>
</table>

Incidental Fee—
Payable by resident and non-resident students.

<table>
<thead>
<tr>
<th>Hours per Week</th>
<th>If paid before Sept. 25</th>
<th>If paid between Sept. 25 and Nov. 1 or Feb. 12 and April 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 8 hours per week</td>
<td>$10.00</td>
<td>$12.50</td>
</tr>
<tr>
<td>From 5 to 8 hours per week</td>
<td>8.00</td>
<td>10.00</td>
</tr>
<tr>
<td>3 or 4 hours per week</td>
<td>5.00</td>
<td>6.50</td>
</tr>
<tr>
<td>1 or 2 hours per week</td>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>
All persons registering for work after the specified days of registration will be charged a fee of $1.00 for the first day and twenty-five cents for each additional day of delay in registration.

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

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

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

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

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

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

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

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

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

* J. S. Cantwell, D. D.
* Col. Geo. T. Perkins.
* Henry Blandy.
  Rev. 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

E. L. Rexford, D. D. .......................... 1878-1880
* Orello Cone, D. D. .......................... 1880-1896
C. M. Knight, Sc. D. (ad interim) .......... 1896-1897
I. A. Priest, D. D. ............................ 1897-1901
* A. B. Church, D. D., LL. D. ............... 1901-1912
P. R. Kolbe, Ph. D. ............................ 1913-

* Deceased.
ENDOWMENTS

Messerger 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.
BUCHTEL COLLEGE

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.
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, and no student from the Akron High Schools will be admitted on less than 16 units without the recommendation of the Superintendent of Schools. Examinations will be required in subjects presented for admission with grades below 70 per cent.
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.

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

A. B. COURSE

The candidate must present:
English (page 36) ........................................... 3 units
Mathematics (page 36) ................................. 2½ units
*Foreign Languages (page 38) .................... 4 units
General History (page 43) ......................... 1 unit
Elective (from the subjects on pages 34 and 35) 4½ units

B. S. COURSE

The candidate must present:
English (page 36) ........................................... 3 units
Mathematics (page 38) ................................. 3 units
Foreign Languages (page 43) ....................... 4 units
Sciences (page 41) [one unit must be Chemistry or Physics] ................................. 2 units
Elective (from the subjects on pages 34 and 35) 3 units

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 38) ...................................... ½ unit
Botany (page 42) ......................................... 1 or ½ unit
Chemistry (page 41) ....................................... 1 unit
Civics (page 43) ........................................... ½ unit

*For a major in Latin, or in Greek and Latin (see page 45) four years of Latin are required for entrance.
History, General, 1 or 2 units (page 43) ........................... Not more than 3 units
History, English, 1 or ½ unit (page 43) ........................... Not more than 3 units
History, Advanced U.S., 1 or ½ unit (page 43) ........................... Not more than 3 units

Physics (page 41) ........................................... 1 unit
Physical Geography (page 42) ................................ 1 or ½ unit
Physiology (page 42) ........................................... ½ unit
Zoology (page 42) ........................................... 1 or ½ unit
Language ......................................................... Not more than 6 units

Domestic Science ............................................ 1 unit
Manual Training ................................................ 1 unit
Commercial Law ............................................... 1 unit
Commercial Geography ........................................ 1 unit

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 at mid-year with two or more years of German or four years of Latin may elect from the following subjects if they desire to enter at once:

- Latin 26 (4 h.)
- German 104 (3 h.)
- German 132 (4 h.)
- Federal Govt. 262 (2 h.)
- English 65 or 66 (3 h.)
- Rhetoric 51 (3 h.)
- Mathematics 301 (4 h.)

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

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

**ENGLISH, 3 Units**

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

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

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

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

**MATHEMATICS AND ASTRONOMY**

Algebra and Plane Geometry are required for entrance to 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.
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 Major I or II of the A. B. Course (see page 45). One, two, three, or four units may be offered for entrance to any other major of either the A. B. or B. S. course, 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, Poët 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 either the A. B. or the B. S. Course, except in the case of Majors I and II (see page 45). Candidates must present from former teachers a full statement of work covered, texts used, and time spent. No student will be allowed to enter an advanced course without examination.

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 Hoheer als die Kirche. The candidate should be able to pronounce German correctly, to understand and form simple sentences, and to write German script.

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

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

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

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

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

French, 1, 2, 3 or 4 Units

One, two, three or four years of French may be offered for admission to either the A. B. or the B. S. Course, except in the case of Majors I and II (see page 45). 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 151 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 thorough knowledge of the leading principles of French grammar as set forth, for instance, in Fraser and Squair; an accurate acquaintance with the more common irregular verbs; the ability to translate easy English prose
into French and to read easy French at sight; the ability to pronounce French, and the careful reading of two hundred pages of less difficult French.

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

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

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

SCIENCES

Physics, 1 Unit.

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

Chemistry, 1 Unit

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

**Zoology, 1/2 or 1 Unit**

To count for one unit, the course should extend throughout a year of 36 weeks, five times per week, reciting at least 45 minutes. One-fourth should be laboratory work in dissections and drawings. Drawings and notes should be presented 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, five times per week, at least one-fourth of which should be of the nature of field or experimental work and dissections. Coulter, or Bergen and Caldwell, is recommended as a text-book. Note-book required.

**Physiology, 1/2 Unit**

Only work done above the grades will count for entrance. It should consist of eighteen weeks’ work, five 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**

Five times per week for one-half year. A good textbook, 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.
BUCHTEL COLLEGE

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 AND DEGREES

Two courses of study, each requiring 128 term hours for graduation, and leading respectively to the degrees A. B. and B. S., are offered in Buchtel College. (For terms of admission to these courses see page 33.)

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

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

FRESHMAN STUDIES (required)

1. The A. B. Course

<table>
<thead>
<tr>
<th>First Half-Year</th>
<th>Term Hrs.</th>
<th>Second Half-year</th>
<th>Term Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 53</td>
<td>3</td>
<td>Rhetoric 52</td>
<td>3</td>
</tr>
<tr>
<td>†Chemistry 353, or †Chemistry 354, or</td>
<td>3</td>
<td>†Chemistry 354, or †Chemistry 353, or</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 351, or Biology 401</td>
<td>4</td>
<td>Chemistry 352, or Biology 402</td>
<td>4</td>
</tr>
<tr>
<td>Hygiene</td>
<td>1</td>
<td>Current Events</td>
<td>1</td>
</tr>
</tbody>
</table>

The above-mentioned subjects are required of all students in the A. B. course. Additional freshman studies in A. B. course leading toward Majors I and II (see page 45) are:

- Greek 1 ........................................ 4
- Latin 25 ....................................... 4

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

Additional freshman studies in A. B. Course leading toward Majors III-VII (see page 46) are:

- Foreign Language ........................................ 4
- Mathematics 301 or 303 ........................................ 4

*For combination courses and training course for teachers see pages 151 and 158.
II. The Scientific Course

<table>
<thead>
<tr>
<th>First Half-Year</th>
<th>Term Hrs</th>
<th>Second Half-year</th>
<th>Term Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rhetoric 51</td>
<td>3</td>
<td>Rhetoric 52</td>
<td>3</td>
</tr>
<tr>
<td>*Chemistry 353, or........</td>
<td>4</td>
<td>*Chemistry 354, or......</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 351, or.......</td>
<td>4</td>
<td>Chemistry 352, or.......</td>
<td>4</td>
</tr>
<tr>
<td>Biology 401.....</td>
<td>4</td>
<td>Biology 402......</td>
<td>4</td>
</tr>
<tr>
<td>Hygiene .............</td>
<td>1</td>
<td>Current Events ..........</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 301 or 303....</td>
<td>4</td>
<td>Mathematics 303 or 301....</td>
<td>4</td>
</tr>
<tr>
<td>German or French ........</td>
<td>4</td>
<td>German or French ......</td>
<td>4</td>
</tr>
</tbody>
</table>

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

MAJORS AND MINORS

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

I. MAJORS LEADING TO THE A. B. DEGREE

For list of Minors, see pages 46, 47.

(Unless otherwise specified, the work required for the major is twenty-four hours above the freshman year.)
I. Greek and Latin (with minors 1-6 inclusive).
   At least twelve hours must be in the Greek language above the freshman year.
II. Latin (with minors 1 to 6 inclusive).
III. German (with minors 1 to 5 inclusive, and 7).
IV. Romance Languages (with minors 1 to 5 inclusive, and 8).
V. Philosophy and Economics (with minors 1 to 4 inclusive, 7 and 8). Twelve hours each.
VI. History (with minors 1 to 3 inclusive, 5, 7 and 8).
VII. English Literature (with minors 3, 5, 7, 8, 9, and English History).

II. MAJORS LEADING TO THE B.S. DEGREE
(Unless otherwise specified, the work required for the major is twenty-four hours above the freshman year.)

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

III. MINORS

Term hrs.
1. Rhetoric 53 ........................................ 2
2. Literature 65 or 66 (or 75 and 76) ............... 3 or 4
3. *Science (other than that taken in freshman year) ........................................ 8
4. History ........................................... 6
5. Philosophy, Logic, Economics, Political Science ........................................ 6
6. Modern Language .................................. 6 or 8
7. French ............................................ 6 or 8
8. German ........................................... 6 or 8
Thesis

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

Master's Degree

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

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

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

An examination will be required in both subjects.

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

FEES

For general statement see pages 23, 27. 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
Biology courses 401-410 inclusive, each ........ 2.50
Surveying ................................. 2.00
   Graduation fee—Payable one week before graduation ....................... 5.00
   Master's degree—Payable one week before graduation ....................... 10.00

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ancient Languages</td>
<td>1-50</td>
</tr>
<tr>
<td>English</td>
<td>51-199</td>
</tr>
<tr>
<td>German</td>
<td>101-150</td>
</tr>
<tr>
<td>Romance Languages</td>
<td>151-200</td>
</tr>
<tr>
<td>Mental and Moral Philosophy</td>
<td>201-250</td>
</tr>
<tr>
<td>Economics, Political Science, History</td>
<td>251-300</td>
</tr>
<tr>
<td>Mathematics</td>
<td>301-350</td>
</tr>
<tr>
<td>Chemistry</td>
<td>351-400</td>
</tr>
<tr>
<td>Biology</td>
<td>401-450</td>
</tr>
<tr>
<td>Physical Training</td>
<td></td>
</tr>
</tbody>
</table>

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

GREEK

PROFESSOR ROCKWELL.

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

1. Goodwin’s Greek Grammar and Xenophon’s Anabasis—(First Semester.) M., W., F., S., 8:25.

2. Xenophon (Anabasis, 3 books).—(Second Semester.) M., W., F., S., 8:25.

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

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

Not given 1917-1918.

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

*10. Latin Masterpieces thru English Translations.—(Second Semester.)

Not given 1917-1918.

The continuation of the preceding course.

CLASSICAL ARCHEOLOGY.

PROFESSOR ROCKWELL.

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

*17. History of Greek Sculpture.—(First Semester.)

M., W., Th., 9:20.
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 Phenicia, 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, tho 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.)

Continuation of Course 17. M., W., Th., 9:20.

19. Classical Mythology.—(First Semester.)

Tu., Th., 8:25.

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., 8:25.

LATIN

PROFESSOR ROCKWELL.

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

Major: Twenty-four hours elected above freshman year constitute a major in Latin.
Major: Twelve hours each of Greek and Latin above the freshman requirements constitute a major in Greek and Latin.

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

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

26. Pliny (Selected Letters)—(Second Semester.)
   M., W., F., S., 7:30. Required of freshmen in Majors I and II.

27. Livy (Books XXI-XXII); Plautus Trinumnumus.—(First Semester.)
   M., W., F., 11:10. 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.

   Advanced courses in Literature and Antiquities will be arranged for those desiring to continue the study of Latin.
To meet the needs of all entering students, Freshman Rhetoric during the first semester will consist of a sub-freshman class and classes doing the work regularly prescribed for credit. Students assigned to the sub-freshman class must do the work without receiving for it regular college credit. They may, however, be promoted to one of the regular classes whenever their work seems to warrant such a change. Similarly, any student in a regular section of freshman rhetoric may be transferred to the sub-freshman class—with loss of credit—whenever his work ceases to be satisfactory to the instructor. Furthermore, to accommodate students entering the second semester, and to provide means of prompt repetition of the course for students who fail, both Rhetoric 51 and Rhetoric 52 will be given each semester.

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

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

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

51. **Freshman Rhetoric.—(First and Second Semesters.)**

First semester, two sections: Section a, M., W., Th., 9:20; Section b, M., W., F., 10:15. Second semester, one section, M., W., F., 10:15.
Required of all freshmen. A thoro review of the principles of style. Two themes each week. Monthly reading of short stories. Frequent conferences with instructors in regard to work in composition.

52. *Freshman Rhetoric.—*(First and Second Semesters.)

First semester, M., W., Th., 9:20. Second semester: Section a, M., W., Th., 9:30; Section b, M., W., F., 10:15.

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

53. *Parliamentary Law.—*(First Semester.)

M., W., 11:10.

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

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

M., W., 11:10.

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

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

(Two term hours.) Time to be arranged when class meets.

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


LANGUAGE AND LITERATURE

DEAN SPANTON.

ASSISTANT-PROFESSOR STURTEVANT.

MR. BRICKLEY.

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

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

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

General Introduction to English Literature.—(First and Second Semesters.)

First Semester, M., W., F., 10:15.
Second Semester, M., W., F., 7:30.

The chief purpose of this course is to give the student such information and training as will enable him to see what constitutes good literature and will lead him to read good literature with greater intelligence and keener delight.
With literature 66, this course is prerequisite to the other courses in English Literature. It is also a required minor for all majors, altho American Literature 75 and 76 may be substituted for it if the student is not planning to take further work in the department.

66. The History of English Literature.—(Second Semester.)
M., W., F., 10:15.

The work includes:
(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 Poetry and Prose.

*67. Chaucer.—(First Semester.)
(Two term hours.)

A close study of the best of the Canterbury Tales, and a rapid reading of some other portions of Chaucer's work.
Not given 1917-1918.

*68. Word Study.—(Second Semester.)
(Two term hours.)

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits.
Not given in 1917-1918.

*70. Shakspere.—(First Semester.)
M., W., F., 11:10.

A study of the development of Shakspere as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read, but the chief stress is on the few greatest tragedies and comedies.
The English Bible as Literature.—(First Semester.)
M., W., Th., 9:20.
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, exposition, poetry and song.

Continuation of 71.—(Second Semester.)

British Poets and Essayists of the Nineteenth Century.—(First Semester.)
Studies in Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, Macaulay, Lamb, De Quincey.
Not given 1917-1918.

Continuation of Course 73.—(Second Semester.)
Tu., Th., 10:15.
Studies in Tennyson, the Brownings, Arnold, Landor, Clough, Rossetti, Morris, Swinburne, Carlyle, Ruskin.

American Literature.—(First Semester.)
Tu., Th., 8:25.
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.

American Literature.—(Second Semester.)
Continuation of Course 75.
Students are not allowed to enter this course in the middle of the year.

English Fiction.—(First Semester.)
M., W., F., 7:30.
The development of prose fiction to 19th century. Study of the evolution of the novel as a distinct literary type as

*80. English Fiction.—(Second Semester.)
Continuation of Course 79.
Study of 19th and 20th century fiction with special emphasis upon the work of living writers.

*81. English Drama.—(First Semester.)
Survey of play-writing in England till close of the 18th century, with special attention to the social conditions which created and shaped the plays of each period.
Not given 1917-1918.

*82. Modern Drama.—(Second Semester.)
Continuation of Course 81.
Study of the life and work of the great modern dramatists, with some time devoted to the plays of writers not English or American.
Not given 1917-1918.
A three-years' course is offered in the department of Public Speaking. Progressive educators recognize a well-trained voice with a well-trained mind to be an essential part of education. The voice is the reporter of the individual. A distinct and cultivated enunciation, a well-controlled and cultured voice, an effective and natural manner of speech, are all valuable assets in the business, educational and social world.

91. *Elementary Course.—(First Semester.)*  
Tu., Th., S., 10:15.  
Fundamental principles. Voice technique, tone placing, tone building, enunciation, literary analysis, gesture, evolution of expression—vocal and physical.

92. * (Second Semester.) Continuation of 91.*  
Literary analysis, gesture, evolution of expression, development of imagination and sympathetic insight into literature.

93. *Advanced Course.—(First Semester.)*  
Tu., 9:20; Th., 11:10.  
Literary, dramatic, artistic interpretation, character study. Shakspere's plays. Classic comedies.

94. * (Second Semester.)*  
Course 93 continued. Shakspere’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.

*96. Dramatic Study.—(Second Semester.)
   Continuation of Course 95.

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

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

   Friday, 11:10.

   Open to all upper-classmen.

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

98. Continuation of 97.—(Second Semester.)
It is the aim to make German the language of the classroom. In the elementary courses it is sometimes necessary to use English for the purposes of explanation; however, the effort is made to reduce this amount to the minimum. For the advanced courses all lectures and reports are in German. The intention is to accustom the student to using the language and hearing it used by others. Idiomatic and technical accuracy in the use of the language, and, above all, care in pronunciation, are insisted upon. Courses given as prose composition are more in the nature of free reproduction of German texts than of translation.

The following 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: 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:
BUCHTEL COLLEGE

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, 107, 109, 111, 113, 119, and 123.

Course 106 (or 131) admits to 107, 108, 111, 115, 119, and 123.

Course 108 (or 116 or 124) admits to 109, 111, and 119.

Course 110 admits to 111, 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 Year German.—(First Semester.)

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

Elementary grammar, stories and poems, simple conversation. Students with one year of secondary school German may elect this course but will receive only half credit (2 hours).
102. **First Year German.**—(*Second Semester.*)
   (a) M., Tu., W., Th. 9:20. (b) M., W., F., S., 11:10.

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

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

   This course is intended for those who have completed courses 101 and 102, or their equivalent. Students with one year of secondary school German will be admitted on probation. The time will be divided between prose composition and reading of prose and poetical works. Reproductions in German of the lesson and written themes are required. Students with two years of secondary school German must elect this course or 103 b.

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

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

103. (b) **Second Year German.**—(*First Semester.*)
   M., W., F., 11:10. A parallel course to 103 a, with equivalent work.

104. (b) **Second Year German.**—(*Second Semester.*)
   M., W., F., 11:10. A parallel course to 104 a, with equivalent work.

105. **Dictation.**—(*First Semester.*)
   Tu., Th., 7:30.

   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 grammar.

106. Dictation.—(Second Semester.)

Tu., Th., 7:30.

The nature of this course is the same as that of course 105. For the grammar review of course 105 a prose composition will be substituted.

131. Fifth Year German.—(First Semester.)

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

Students who present three or four years of secondary school German for entrance are required to take this course. Such students are not eligible to other courses. The work will consist of a rapid review of grammar, prose-composition and reading and discussion of representative works from modern literature. Outside reading, preparation of German themes in connection with the works read, investigation of assigned topics in the library, and note books required. The aim is to develop accuracy and certainty in the use of the spoken language.

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

A continuation of Course 131.

129. Scientific German.—(First Semester.)

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

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

130. Scientific German.—(Second Semester.)

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

A continuation of course 129. Technical subjects.
ADVANCED COURSES

First Semester.

1917—1918.

123. Lessing. M., W., Th., at 9:20. Prerequisite: Course 104 or 131. A study of Lessing's life and works. Library work, class reports.

1918—1919

107. Goethe. M., W., Th., at 9:20. Prerequisite: Course 104 or 131. Goethe’s early life and works.

1919—1920

115. Schiller. M., W., Th., at 9:20. Prerequisite: Course 104 or 131. Schiller’s early life and dramas.

Second Semester.

1917—1918.

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

1918—1919


1919—1920

116. Schiller. M., W., Th., at 9:20. Prerequisite, as for 115. Schiller’s later work.

First Semester.

1917—1918.

*117. Faust. (Time of meeting will be arranged to suit the convenience of the class.) 3 term hours. Prerequisite: Any one of the following courses: 107, 109, 118, 115, 123, 111, 131, 119. Class discussion, themes, library work, class reports.

1918—1919

1917—1918.

*118. Modern Drama. Prerequisite, as for 117. Rapid reading and discussion of selected works. Reports, lectures, library work. Time to be arranged.

1918—1919


1917—1918.

First Semester.

119. German Life. Tu., Th., at 8:25. Prerequisite: 104 or 131. A study of German life and customs. Class themes, practice in conversation.

1918—1919

*111. German Literature. Tu., Th., at 8:25. Prerequisite: Course 107, 123, 115, 109, 119, 117. A survey of German literature from the earliest times. Lectures, class reports, outside reading.

Second Semester.

1917—1918.

120. Conversation. Tu., Th., at 8:25. Prerequisite, as for 119.

1918—1919

*112. German Literature. Tu., Th., at 8:25. Prerequisite, as for 112. A continuation of the work of 119.
Major: Twenty-four hours in Spanish and French, not including Courses 151 and 152, constitute a major in the Romance Languages.

FRENCH

PROFESSOR RINES.

MR. TULLER.

MR. MORIN.

151. Beginning French.—(First Semester).
Olmsted's Elementary French Grammar, Reader, *Petits Contes de France.*

152. Beginning French.—(Second Semester.)
Continuation of Course 151. Selected readings.

153. Second Year French.—(First Semester.)
M., W., F., 7:30.

154. Second Year French.—(Second Semester.)
Continuation of Course 153. Selected plays of Molière.

165. French Diary.—(First Semester.)
150—200 words in French to be entered daily in notebook. Bi-weekly conferences with the instructor. No class room work. One term-hour.

166. French Diary.—(Second Semester.)
Course 165 continued.
167. French Conversation.—(First Semester.)  
Hour arranged. Rittmann's *French Daily Life*.  
Two term hours.

168. French Conversation.—(Second Semester.)  
Course 167 continued.

155—164. Advanced French.  
At least one course in advanced French will be given each year, which will be chosen from the following list: The Short Story in French Literature, Modern Prose and Poetry, the Classic Period, the Works of Victor Hugo, History of France studied and recited in French. The course given in 1917-1918 will probably be Modern Prose and Poetry, 157-158.  
Two term hours. Hour to be arranged.

SPANISH
PROFESSOR RINES.

171. Beginning Spanish.—(First Semester.)  
M., W., F., 11:10.  

172. Beginning Spanish.—(Second Semester.)  
M., W., F., 11:10.  
Course 171 continued. Selected texts.

173. Second Year Spanish.—(First Semester.)  
M., W., F., 10:15.  

174. Second Year Spanish.—(Second Semester.)  
Course 173 continued.
MENTAL AND MORAL PHILOSOPHY

PROFESSOR O. E. OLIN.

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

*201. Psychology.—(First Semester.)

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

*202. Psychology.—(Second Semester.)

Continuation of Course 201. One hour of seminar work a week is given in this semester.

*203. Ethics.—(First Semester.)

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

*204. Ethics.—(Second Semester.)

Continuation of Course 203 with Natural Theology.
Text-books: Mackenzie and Valentine.

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


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. 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.)**


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.)


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., 9:20; Th., 11:10.

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

254. Economic Problems.—(Second Semester.)

Tu., 9:20; Th., 11:10.

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

261. Political Science.—(First Semester.)


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.

This course continues Political Science in the study of Federal Government, by a comparative study of the fed-
eral 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

PROFESSOR THOMPSON.

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

273. History of England to the Seventeenth Century.—(First Semester.)

M., W., F., 11:10.

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

274. History of the British Empire from the Seventeenth Century to the present time.—(Second Semester.)

Continuation of 273.

Emphasis will be laid on the history of the various colonies, and the present problems of the British Empire.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Description</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>275.</td>
<td>History of Western Europe.</td>
<td>The development of Europe from the beginning of the Sixteenth Century to 1815.</td>
<td>M., W., F.</td>
<td>8:25</td>
</tr>
<tr>
<td>276.</td>
<td>History of Western Europe from 1815 to the present time.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>277.</td>
<td>American History, 1789-1850.</td>
<td>(First Semester.)</td>
<td>Tu., Th.</td>
<td>8:25</td>
</tr>
<tr>
<td>278.</td>
<td>American History from 1850 to the present time.</td>
<td>(Second Semester.)</td>
<td>Tu., Th.</td>
<td>8:25</td>
</tr>
<tr>
<td>279.</td>
<td>History of the Renaissance and Reformation.</td>
<td>(For Juniors and Seniors only.) Prerequisite 273-274 or 275-276. Not given 1917-1918.</td>
<td>Tu., Th.</td>
<td>8:25</td>
</tr>
<tr>
<td>281.</td>
<td>Ancient History — The Orient and Greece.</td>
<td>(First Semester.)</td>
<td>Tu., Th.</td>
<td>10:15</td>
</tr>
<tr>
<td>282.</td>
<td>Ancient History — Rome.</td>
<td>(Second Semester.)</td>
<td>Tu., Th.</td>
<td>10:15</td>
</tr>
<tr>
<td>285.</td>
<td>Growth of German Nationalism from 1648 to present time.</td>
<td>(First Semester.)</td>
<td>Tu., Th.</td>
<td>7:30</td>
</tr>
<tr>
<td>290.</td>
<td>Current Events.</td>
<td>(For Freshmen only.)</td>
<td>Three sections: (a), Tu., 7:30; (b), Th., 7:30; (c), W., 3:00.</td>
<td></td>
</tr>
<tr>
<td>287.</td>
<td>History of Art.</td>
<td>(First Semester.)</td>
<td>Tu., Th.,</td>
<td>9:20</td>
</tr>
<tr>
<td>288.</td>
<td>Continuation of 287.</td>
<td>(Second Semester.)</td>
<td>Tu., Th.,</td>
<td>9:20</td>
</tr>
</tbody>
</table>
Major in Mathematics and Physics

Calculus, ten term hours.
Surveying, two term hours.
Physics, twelve term hours.

Total, twenty-four term hours.

303. College Algebra.—(First Semester.)
M., W., F., S., 8:25.

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

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

301. Plane and Spherical Trigonometry.
(Given both first and second semesters.)
First semester, in two sections. Section a, M., W., F., S., at 7:30. Section b, M., Tu., W., Th., at 9:20. Second semester, only one section, at 8:25. This work includes goniometry, trigonometric equations, solution of plane and spherical triangles and construction of tables.
302. *Plane and Solid Analytic Geometry.—(Second Semester.)*

In two sections. Section a, M., W., F., S., at 7:30. Section b, M., Tu., W., Th., at 9:20. Prerequisite for the course, Plane and Spherical Trigonometry.

The work includes: The straight-line and general equation of the first degree, polar co-ordinates, transformation of co-ordinates, conic sections and equations of the second degree, tangents, normals, loci, 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 10:15. M., Tu., W., Th., F.

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

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.
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: Raymond.

ASTRONOMY AND GEOLOGY
PROFESSOR LOCKNER.

General Geology.—(First Semester.)
M., W., F., 10:15.
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.

Descriptive Astronomy.—(Second Semester.)

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.
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.

341. General Physics.—(First Semester.)

Four recitations a week: M., Tu., W., Th., 9:20.
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.)

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: M., W., 1:00-3:00. (Two term hours.)

344. General Physics, Laboratory.—(Second Semester.)

Continuation of 343.

For advanced courses in Strength of Materials, Applied Mechanics, Electricity, and Hydraulics, see p. 168-ff.
BUCHTEL COLLEGE

CHEMISTRY

PROFESSOR SIMMONS.

ASSISTANT-PROFESSOR ZIMMERLI.

MR. SIBLEY.

ASSISTANT, MR. YACKEE.

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

351. General Chemistry.—(First Semester.)
A study of the newer theories of Chemistry. Six hours per week. Section a—recitations Tu., Th., 8:25; laboratory, 1:00-3:00 M. and F. Section b—recitation Tu., Th., 10:15; laboratory 3:00-5:00 M. and F. (Four term hours.)

353. General Chemistry.—(First Semester.)
Text: McPherson and Henderson. Six hours per week. Tu. and Th., 7:30; 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 Preparations; Blow-pipe Analysis.

354. General Chemistry.—(Second Semester.)
Six hours per week. Continuation of 353. (Four term hours.) Inorganic Preparations.

365. Qualitative Analysis.—(First Semester.)
Lecture F., 2:00. Laboratory M., W., F., 3:00-5:00. (Three term hours.) Open to students who have passed 352 or 354.

366. Qualitative Analysis.—(Second Semester.)
Lecture F., 2:00. Laboratory M., W., F., 3:00-5:00. (Three term hours.)
*357. Organic Chemistry.—Recitations and Laboratory Practice.—(First Semester.)
Six hours per week, M., W., 9:20; Th., 1:00 to 5:00. (Three term hours.) A study of the aliphatic series of hydrocarbons and their derivatives.
Required of all students who select Chemistry as their major.

*358. Organic Chemistry.—(Second Semester.)
A continuation of Course 357.

*359. Quantitative Analysis.—(First Semester.)
Lecture and Laboratory Practice, Th., 9:20; Tu., 1:00-5:00; F., 1:00-3:00. (Three term hours.)

*360. Quantitative Analysis.—(Second Semester.)
A continuation of 359.

*363. Chemistry of India Rubber.—(First Semester.)
F., 7:30; Tu. and Th., 1:00-5:00. (Three term hours.) Lecture and laboratory covering the theory and practice in the chemistry of India rubber.
The course pre-supposes a year of organic chemistry and a year of quantitative analysis.

*364. Chemistry of India Rubber.—(Second Semester.)
Continuation of 363.

*367. Organic Chemistry.—Lectures, Recitations and Laboratory Practice.—(First Semester.)
Six hours per week. Tu., 1:00 to 5:00; Ta., Th., 10:15. (Three term hours.) A study of the aromatic series of hydrocarbons and their derivatives.

*368. Organic Chemistry.—(Second Semester.)
A continuation of Course 367.
(Required of students who major in Chemistry.)
*369. Advanced Practical Chemistry.—(First Semester.)
Laboratory and Seminar. (Three term hours.)
F., 1:00-5:00; S., 7:30-12:00. (Courses 360 and 368 required.) The course will deal with problems of an industrial nature and with co-operative work in connection with the Bureau of City Tests.

*370 Advanced Practical Chemistry.—(Second Semester.)
Continuation of 369.

BIOLOGY
PROFESSOR FLOWMAN.

Twenty-four semester hours above the freshman year in Biology is the minimum requirement for a major in this department. Minor requirements are stated on page 46. Students who desire to do their major work in this department should carry Biology 401-402 as their first year science, and should do their required work in Physics and Chemistry in the second and third years, respectively. Prospective students in this department are requested to observe that almost all courses above the freshman year are offered in alternate years and that schedules must be arranged accordingly.

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

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

Abbott's General Biology is used as a collateral text. A special notebook, including outlines of the biosphere, chart
outlines, and all necessary paper, will be supplied by the department, at a price of $1.00.

402. General Biology.—(Second Semester.)

A continuation of 401.

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

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

403. Vertebrate Zoology.—(First Semester.)

Lectures M., W., F., 8:25. Laboratory four to six hours per week. (Four term hours.) Offered for 1917-1918 and alternate years.

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

404. Animal Embryology.—(Second Semester.)

Lectures M., W., F., 8:25. Laboratory four to six hours per week. (Four term hours.) Offered for 1917-1918 and alternate years.

A comparative study of the early developmental stages of animals. Laboratory work is confined chiefly to a study of the embryology of the chick. In the lectures considerable attention is given to the study of thremmatology.
405. Vascular Plants.—(First Semester.)

Lectures M., W., F., 8:25. Laboratory four to six hours per week. (Four term hours.) Given in 1916-1917, and alternate years.

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

407. Human Physiology.—(First Semester.)

Lectures and recitations, M., W., Th., 9:20. Three to five hours' laboratory work per week. (Four term hours.) Given in 1916-1917, and alternate years.

Men's course.

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

408. Human Physiology.—(Second Semester.)

Continuation of 407. Men's course.

409. Human Physiology.—(First Semester.)

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

Women's course.

This course is essentially the equivalent of course 407, but with greater emphasis upon its hygienic relations, and the physiology of development. The same textbook and references are used here as in course 407. Open only to college women. Required in Curtis School of Home Economics.
410. Human Physiology.—(Second Semester.)
Continuation of 409. Women's course.

413. Freshman Hygiene.—(First Semester.)
Lectures, Tu., 3:00. (One term hour.)
A course of lectures dealing primarily with the subject of personal hygiene, to the end that young college men may better conserve their energy and health, and thereby fit themselves for lives of the greatest efficiency, as students and as citizens. Required of all first-year men.

415. Freshman Hygiene.—(First Semester.)
Lectures, W., 3:00. (One term hour.)
A parallel course to 413, particularly adapted to the needs of young college women. Required of all first-year women.

416. Organic Evolution.—(Second Semester.)
Lectures, M., W., F., 8:25. Laboratory and reference reading, three to four hours per week. (Four term hours.) Given in 1916-1917, and alternate years.

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

418. Conservation.—(Second Semester.)
Two lectures per week, and reference reading. (Two term hours.) Tu. and W., 3:00.

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

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

PHYSICAL EDUCATION

MR. SEFTON, DIRECTOR.

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

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

Mr. Sefton.

All first-year and second-year men are required to take the following work: 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 for the first year and one hour for the second year.

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 diamond, and football field with bleachers to accommodate 4000 spectators.

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

A limited number of intercollegiate games 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 STEEDS

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.
Class Schedules
for
Buchtel College
### SCHEDULE FOR FIRST SEMESTER

Courses starred are open only to Juniors and Seniors

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cicero 25</td>
<td>Cicero 25</td>
<td>Cicero 25</td>
</tr>
<tr>
<td><strong>Cicero 125</strong></td>
<td><strong>Logic 206</strong></td>
<td><strong>Trigonometry 301a</strong></td>
</tr>
<tr>
<td>7:30</td>
<td>7:30</td>
<td>7:30</td>
</tr>
<tr>
<td>German 105</td>
<td>German 286</td>
<td>German 119</td>
</tr>
<tr>
<td>German History 303</td>
<td>Chemistry 303</td>
<td>Chemistry 303</td>
</tr>
<tr>
<td><strong>Greek 1</strong></td>
<td><strong>German 205</strong></td>
<td><strong>German 205</strong></td>
</tr>
<tr>
<td>8:25</td>
<td>8:25</td>
<td>8:25</td>
</tr>
<tr>
<td>*Psychology 201</td>
<td>*History West Europe 275</td>
<td>*History West Europe 275</td>
</tr>
<tr>
<td>German 105</td>
<td>French 153</td>
<td>German 119</td>
</tr>
<tr>
<td>French 153</td>
<td>German 105</td>
<td>French 153</td>
</tr>
<tr>
<td>Latin 403</td>
<td>Latin 403</td>
<td>Latin 403</td>
</tr>
<tr>
<td><strong>Greek Sculpture 17</strong></td>
<td><strong>Rhetoric 205</strong></td>
<td><strong>Rhetoric 205</strong></td>
</tr>
<tr>
<td>9:20</td>
<td>9:20</td>
<td>9:20</td>
</tr>
<tr>
<td>*History West Europe 275</td>
<td>*German 119</td>
<td>*German 119</td>
</tr>
<tr>
<td>*Logic 205</td>
<td>*Chemistry 303</td>
<td>*Chemistry 303</td>
</tr>
<tr>
<td>Physics 341</td>
<td>Physics 341</td>
<td>Physics 341</td>
</tr>
<tr>
<td><strong>Physics 400</strong></td>
<td><strong>Physics 400</strong></td>
<td><strong>Physics 400</strong></td>
</tr>
<tr>
<td>10:15</td>
<td>10:15</td>
<td>10:15</td>
</tr>
<tr>
<td>*Ethics 205</td>
<td>*Statistics 205</td>
<td>*Statistics 205</td>
</tr>
<tr>
<td>*Calculus 306</td>
<td>*Calculus 306</td>
<td>*Calculus 306</td>
</tr>
<tr>
<td>*Geology 323</td>
<td>*Geology 323</td>
<td>*Geology 323</td>
</tr>
<tr>
<td><strong>Trigonometry 301a</strong></td>
<td><strong>Trigonometry 301a</strong></td>
<td><strong>Trigonometry 301a</strong></td>
</tr>
<tr>
<td><strong>Physics 341</strong></td>
<td><strong>Physics 341</strong></td>
<td><strong>Physics 341</strong></td>
</tr>
<tr>
<td><strong>Freshman Biol. 401</strong></td>
<td><strong>Freshman Biol. 401</strong></td>
<td><strong>Freshman Biol. 401</strong></td>
</tr>
<tr>
<td><strong>Freshman Chem. 353</strong></td>
<td><strong>Freshman Chem. 353</strong></td>
<td><strong>Freshman Chem. 353</strong></td>
</tr>
<tr>
<td><strong>Freshman Phys. 343</strong></td>
<td><strong>Freshman Phys. 343</strong></td>
<td><strong>Freshman Phys. 343</strong></td>
</tr>
<tr>
<td><strong>Freshman History 273</strong></td>
<td><strong>Freshman History 273</strong></td>
<td><strong>Freshman History 273</strong></td>
</tr>
<tr>
<td><strong>Freshman German 101a</strong></td>
<td><strong>Freshman German 101a</strong></td>
<td><strong>Freshman German 101a</strong></td>
</tr>
<tr>
<td><strong>Freshman French 151a</strong></td>
<td><strong>Freshman French 151a</strong></td>
<td><strong>Freshman French 151a</strong></td>
</tr>
<tr>
<td><strong>9:10</strong></td>
<td><strong>10:10</strong></td>
<td><strong>11:00</strong></td>
</tr>
<tr>
<td><strong>Student Meetings</strong></td>
<td><strong>Student Meetings</strong></td>
<td><strong>Student Meetings</strong></td>
</tr>
<tr>
<td><strong>1:00 to 3:00</strong></td>
<td><strong>1:00 to 3:00</strong></td>
<td><strong>1:00 to 3:00</strong></td>
</tr>
<tr>
<td><strong>Physics Lab. 345</strong></td>
<td><strong>Physics Lab. 345</strong></td>
<td><strong>Physics Lab. 345</strong></td>
</tr>
<tr>
<td><strong>3:00 to 5:00</strong></td>
<td><strong>3:00 to 5:00</strong></td>
<td><strong>3:00 to 5:00</strong></td>
</tr>
<tr>
<td><strong>Qual. Anal. 365</strong></td>
<td><strong>Qual. Anal. 365</strong></td>
<td><strong>Qual. Anal. 365</strong></td>
</tr>
<tr>
<td><strong>5:00</strong></td>
<td><strong>5:00</strong></td>
<td><strong>5:00</strong></td>
</tr>
</tbody>
</table>

**ADDITIONAL STUDIES**

The time of the following studies will be arranged to suit the convenience of instructor and student:

*Advanced Composition 45*
## SCHEDULE FOR FIRST SEMESTER

### THURSDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Time</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Cicero 26</td>
<td>9:20</td>
<td>French 158</td>
</tr>
<tr>
<td>7:30</td>
<td>German 106</td>
<td>9:20</td>
<td>Logic 205</td>
</tr>
<tr>
<td>7:30</td>
<td>German History 285</td>
<td>9:20</td>
<td>Trigonometry 301a</td>
</tr>
<tr>
<td>7:30</td>
<td>Chemistry 353</td>
<td>9:20</td>
<td>*Rub. Chem. 369</td>
</tr>
<tr>
<td>7:30</td>
<td>Class. Myth 19</td>
<td>9:20</td>
<td>Greek 1</td>
</tr>
<tr>
<td>8:25</td>
<td>Amer. Literature 75</td>
<td>9:20</td>
<td>Sci. German 129</td>
</tr>
<tr>
<td>8:25</td>
<td>German 119</td>
<td>9:20</td>
<td>*Psychology 271</td>
</tr>
<tr>
<td>8:25</td>
<td>American History 277</td>
<td>9:20</td>
<td>Hist. West Europe 275</td>
</tr>
<tr>
<td>8:25</td>
<td>Chemistry 351a</td>
<td>9:20</td>
<td>Algebra 362</td>
</tr>
<tr>
<td>8:25</td>
<td>*Greek Sculpture 17</td>
<td>9:20</td>
<td>First yr. German 101a</td>
</tr>
<tr>
<td>8:25</td>
<td>Rhetoric 51a</td>
<td>9:20</td>
<td>*Bible Lit. 71</td>
</tr>
<tr>
<td>8:25</td>
<td>*Bible Lit. 71</td>
<td>9:20</td>
<td>*Adv. Prac. Chem. 369</td>
</tr>
<tr>
<td>9:20</td>
<td>Rhetoric 52</td>
<td>9:20</td>
<td>(7:20-12:00)</td>
</tr>
<tr>
<td>9:20</td>
<td>Lessing 125</td>
<td>9:20</td>
<td>First yr. French 161a</td>
</tr>
<tr>
<td>9:20</td>
<td>Pol. Econ. 251</td>
<td>9:20</td>
<td>Assembly</td>
</tr>
<tr>
<td>9:20</td>
<td>*Quant. Anal. 359</td>
<td>9:20</td>
<td>Rhetoric 51b</td>
</tr>
<tr>
<td>9:20</td>
<td>Physiology 400</td>
<td>9:20</td>
<td>Eng. Literature 65</td>
</tr>
<tr>
<td>9:20</td>
<td>Elem. Pub. Sp. 91</td>
<td>9:20</td>
<td>German 100a</td>
</tr>
<tr>
<td></td>
<td>Elem. Pub. Sp. 91</td>
<td>10:15</td>
<td>German 131</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:15</td>
<td>Spanish 173</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:15</td>
<td>*Ethics 203</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:15</td>
<td>Rhetoric 51b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:15</td>
<td>Geology 323</td>
</tr>
<tr>
<td>10:15</td>
<td>Pol. Sci. 261</td>
<td>10:15</td>
<td>Livy 27</td>
</tr>
<tr>
<td>10:15</td>
<td>Ant. History 281</td>
<td>10:15</td>
<td>*Shakespeare 70</td>
</tr>
<tr>
<td>10:15</td>
<td>Calculus 306</td>
<td>10:15</td>
<td>Voice Work 97</td>
</tr>
<tr>
<td>10:15</td>
<td>Chemistry 351b</td>
<td>10:15</td>
<td>First yr. German 101b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>First yr. German 101b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>First yr. German 101b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>First yr. French 151b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Spanish 171</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>First yr. French 151b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Hist. of England 273</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Freshm. Biol. Sem. 401</td>
</tr>
<tr>
<td></td>
<td>History of Art 287</td>
<td>11:10</td>
<td>AFTERNOON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Freshm. Biol. 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Gymnasium (Men)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>(2:00-5:00)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Gymnasium (Women)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>(2:00-4:00)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>*Rub. Chem. 363</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>*Quant. Anal. 369</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>Qual. Anal. 365</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>(2:00-5:00)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>*Adv. Prac. Chem. 369</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>(two term hours)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>*Dramatic Study Club 95 (one term hour),</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>*Faust 117 (three term hours), French Diary 105 (one term hour),</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11:10</td>
<td>French Conversation 167 (two term hours), Advanced French 157 (two term hours), Vertebrate Zoology Lab. 403, Physiology Lab. 409.</td>
</tr>
</tbody>
</table>
### SCHEDULE FOR SECOND SEMESTER

Courses starred are open only to Juniors and Seniors.

#### MONDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>French 154</td>
<td>Pliny 26</td>
<td>Eng. Lit. 65</td>
</tr>
<tr>
<td>8:25</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>Greek 2, Eng. Fiction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>History West Europe 276</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### TUESDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>German 106</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:25</td>
<td>Psychology 202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>Psychology 202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Psychology 202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Psychology 202</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### WEDNESDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Course</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>French 154</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:25</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Greek 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**ADDITIONAL STUDIES**

The time of the following studies will be arranged to suit the convenience of instructor and student: *Advanced Composition 66 (two term hours), *Dramatic Study Club 96 (one term hour).
<table>
<thead>
<tr>
<th></th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>German 106</td>
<td>French 154</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class. Arch. 20</td>
<td>Greek 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Amer. Literature 76</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 120</td>
<td>*Psychology 202</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Num. Org. and Math. 264</td>
<td>Hist. West Europe 276</td>
<td></td>
</tr>
<tr>
<td>8:25</td>
<td>Amer. History 278</td>
<td>Trigonometry 301</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry 352a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td>Freshm. Biol. 402</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>*Greek Sculpt. 18</td>
<td>Rhetoric 51</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Rhetoric 52a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Bible Lit. 72</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>First yr. German 102a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 124</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>First yr. French 152a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sociology 262</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anal. Geom. 302b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>*Phys. 342</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Quant. Anal. 360</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physiology 410</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>*English 74</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 104a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 104b</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spanish 174</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Fed. Gov. 262</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anc. Hist. 262</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Calculus 306</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Astronomy 320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Chemistry 352b</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Org. Chem. 368</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>*Tenn. and Browning 74</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Rhetoric 52b</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Eng. Literature 68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>German 104a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 104b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Econ. Prob. 254</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>History of Art 288</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Econ. Prob. 254</td>
<td></td>
<td>First yr. German 102b</td>
</tr>
<tr>
<td></td>
<td>History of Art 288</td>
<td></td>
<td>First yr. German 102b</td>
</tr>
<tr>
<td></td>
<td>*Org. Chem. 368</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>*Voice Work 98</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>First yr. German 102b</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>First yr. French 152b</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spanish 172</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hist. of England 274</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Freshm. Biol. Sem. 402</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>*Qual. Anal. 366</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Adv. Pract. Chem. 370</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Qual. Anal. 366</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*Adv. Pract. Chem. 370</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00</td>
<td>*Rub. Chem. 354</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00</td>
<td>*Org. Chem. 369</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>*Rub. Chem. 354</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>*Org. Chem. 369</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*German 118 (three term hours), French Diary 166 (one term hour), French Conversation 108 (two term hours), Advanced French 158 (two term hours), Embryology Lab. 404, Physiology Lab. 410.
The Directors of the Municipal University of Akron established the College of Engineering in 1914 and adopted the five-year co-operative course, patterned after the "Cincinnati Plan".

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

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

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

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

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

**SHOP WORK**

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

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

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

WAGES

Engineering students are paid for their work in the shops the same as other employees. Beginners are paid a little more than apprentices and are increased according to a rate agreed upon by the employer and the Dean of the Engineering College. Specific information will be given applicants previous to the beginning of their work. Students are paid only for the time actually employed, and receive their wages direct, as does any other employee.

ADMISSION

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

**ENTRANCE REQUIREMENTS**

The following units must be presented without conditions:

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

**COURSES OF STUDY**

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

*Graduates of the Commercial Course in Akron High Schools are admitted to the Business Training Department without condition in English.*
**COLLEGE OF ENGINEERING**

**OUTLINE OF COURSE**

(First four years.)

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Exercises per alternate period</th>
<th>Second Semester</th>
<th>Exercises per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 725 and 727.6</td>
<td></td>
<td>Mathematics 728</td>
<td>6</td>
</tr>
<tr>
<td>Elementary Mechanics 725</td>
<td>2</td>
<td>Elementary Mechanics 726</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 741</td>
<td>8</td>
<td>Chemistry 742</td>
<td>8</td>
</tr>
<tr>
<td>English 701</td>
<td>1</td>
<td>English 702</td>
<td>1</td>
</tr>
<tr>
<td>Co-ordination 801</td>
<td>1</td>
<td>Co-ordination 802</td>
<td>1</td>
</tr>
<tr>
<td>Shop Practice 805</td>
<td>2</td>
<td>Shop Practice 806</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical Drawing 811.2</td>
<td></td>
<td>Descriptive Geom. 812</td>
<td>2</td>
</tr>
</tbody>
</table>

**Summer Term**

| Mathematics, 729 | 6 |
| Descriptive Geometry, 832 | 6 |
| Surveying, 830 | 10 |

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Exercises per alternate period</th>
<th>Second Semester</th>
<th>Exercises per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 731</td>
<td>6</td>
<td>Mathematics 732</td>
<td>6</td>
</tr>
<tr>
<td>*French 719</td>
<td>6</td>
<td>French 720</td>
<td>6</td>
</tr>
<tr>
<td>Physics 781</td>
<td>4</td>
<td>Physics 782</td>
<td>4</td>
</tr>
<tr>
<td>Physics Laboratory 783.4</td>
<td>4</td>
<td>Physics Laboratory 784.4</td>
<td>4</td>
</tr>
<tr>
<td>English 703</td>
<td>1</td>
<td>English 704</td>
<td>1</td>
</tr>
<tr>
<td>Co-ordination 803</td>
<td>2</td>
<td>Co-ordination 804</td>
<td>2</td>
</tr>
<tr>
<td>Graphic Statics 813</td>
<td>2</td>
<td>Machine Drawing 814</td>
<td>2</td>
</tr>
</tbody>
</table>

**Summer Term**

| Mathematics 733 | 6 |
| Strength of Materials, 833 | 6 |
| Materials Laboratory (M. E.'s only) | 10 |
| Surveying 831 (C. E.'s only) | 10 |

*Beginning with 1917-18, modern language will commence in the Sophomore instead of the Freshman year.*
PRE-JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Exercices per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strength of Materials</td>
<td>815</td>
</tr>
<tr>
<td>Steam Engineering</td>
<td>825</td>
</tr>
<tr>
<td>English Literature 711</td>
<td>2</td>
</tr>
<tr>
<td>French 721 or German 791</td>
<td>1</td>
</tr>
<tr>
<td>Roofs and Bridges 827</td>
<td>7</td>
</tr>
<tr>
<td>Materials Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Mechanism 819</td>
<td>4</td>
</tr>
<tr>
<td>Graphics of Mechanism</td>
<td>823</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Exercices per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Mechanics 816</td>
<td>6</td>
</tr>
<tr>
<td>English Literature 712</td>
<td>3</td>
</tr>
<tr>
<td>French 722 or German 793</td>
<td>1</td>
</tr>
<tr>
<td>Hydraulics 820</td>
<td>4</td>
</tr>
<tr>
<td>Roofs and Bridges 828.10</td>
<td></td>
</tr>
<tr>
<td>Steam Engineering 826</td>
<td>6</td>
</tr>
<tr>
<td>Machine Design 818</td>
<td>6</td>
</tr>
<tr>
<td>Materials Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Exercices per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 737</td>
<td>6</td>
</tr>
<tr>
<td>Electricity 841</td>
<td>6</td>
</tr>
<tr>
<td>Electrical Lab. 843</td>
<td>2</td>
</tr>
<tr>
<td>French 723 or German 793</td>
<td>1</td>
</tr>
<tr>
<td>English 707</td>
<td>1</td>
</tr>
<tr>
<td>Mechanical Lab. 837</td>
<td>2</td>
</tr>
<tr>
<td>Machine Shop Tools</td>
<td>839 (M. E.'s)</td>
</tr>
<tr>
<td>Cement 835 (C. E.'s)</td>
<td>3</td>
</tr>
<tr>
<td>Structural Design 846 (C. E.'s)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Exercices per alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 738</td>
<td>6</td>
</tr>
<tr>
<td>Electricity 842</td>
<td>6</td>
</tr>
<tr>
<td>Electrical Lab. 844</td>
<td>2</td>
</tr>
<tr>
<td>French 724 or German 794</td>
<td>1</td>
</tr>
<tr>
<td>English 708</td>
<td>1</td>
</tr>
<tr>
<td>Mechanical Lab. 838</td>
<td>2</td>
</tr>
<tr>
<td>Production Engineering 840 (M. E.'s)</td>
<td>5</td>
</tr>
<tr>
<td>Structural Design 846 (C. S.'s)</td>
<td>5</td>
</tr>
</tbody>
</table>

DEGREES

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

FEES

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

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

There are two registration days for students in the College of Engineering and the Department of Business Training, one for each section. For example, students in section one will register on September 17, 1917, and those in section two on October 1, 1917. Students registering after these dates are charged an additional fee of one dollar for the first day and twenty-five cents per day for each succeeding day thereafter, but no one will be accepted later than five days after the date set for registration.
Laboratory Fees

The following laboratory fees are charged for courses in the College of Engineering and the Department of Business Training. By action of the Directors these laboratory fees are collectable strictly in advance and are a necessary pre-requisite to enrollment in classes.

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

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

ESTIMATED EXPENSE OF FRESHMAN YEAR

First Semester

<table>
<thead>
<tr>
<th></th>
<th>Resident</th>
<th>Non-resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>Free</td>
<td>$25.00</td>
</tr>
<tr>
<td>Fees</td>
<td>$18.00</td>
<td>18.00</td>
</tr>
<tr>
<td>Books and Drawing Instruments</td>
<td>22.00</td>
<td>22.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$40.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$55.00</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th></th>
<th>Resident</th>
<th>Non-resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>Free</td>
<td>$25.00</td>
</tr>
<tr>
<td>Fees</td>
<td>$18.00</td>
<td>18.00</td>
</tr>
<tr>
<td>Books</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$49.00</td>
</tr>
</tbody>
</table>
Summer Term

Tuition ......................... Free  $10.00
Fees .......................... $2.00  2.00
Books .......................... 5.00  5.00

$7.00  $17.00

Board and room can be obtained at from $5.00 to $7.00 per week. The minimum wage paid is twelve and one-half cents per hour or $6.75 per week for Engineering students and $40 per month for Business Training students, for time worked.

DEPARTMENTS OF INSTRUCTION

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

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

ENGLISH

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

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

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Year/Year, Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>701</td>
<td>English Composition (Freshman Year, First Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>702</td>
<td>English Composition (Freshman Year, Second Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>703</td>
<td>English Composition (Sophomore Year, First Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>704</td>
<td>English Composition (Sophomore Year, Second Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>705</td>
<td>English Composition (Pre-Junior Year, First Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>706</td>
<td>English Composition (Pre-Junior Year, Second Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>707</td>
<td>English Composition (Junior Year, First Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>708</td>
<td>English Composition (Junior Year, Second Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
<tr>
<td>709</td>
<td>English Composition (Senior Year, First Semester)</td>
<td>(One Hour.)</td>
<td></td>
</tr>
</tbody>
</table>
710. English Composition *(Senior Year, Second Semester.)*

(One Hour.)

711. English Literature *(Pre-Junior Year, First Semester.)*

(Two Hours.)

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

712. English Literature *(Pre-Junior Year, Second Semester.)*

(Two Hours.) A continuation of 711.

**FRENCH**

French is a required subject for all engineering students.

*717. (Freshman Year, First Semester.)*

(Six Hours.)

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

*718. (Freshman Year, Second Semester.)*

(Six Hours.) A continuation of the work of 717.

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

719. *(Sophomore Year, First Semester.)*

(Six Hours.)

Reading of French technical books and journals.

720. *(Sophomore Year, Second Semester.)*

(Six Hours.) Continuation of 719.

*Not given in 1917-18.*
721. (Pre-Junior Year, First Semester.)
(One Hour.) Continuation of 719.

722. (Pre-Junior Year, Second Semester.)
(One Hour.) Continuation of 719.

723. (Junior Year, First Semester.)
(One Hour.) Continuation of 719.

724. (Junior Year, Second Semester.)
(One Hour.) Continuation of 719.

GERMAN

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

791. (Pre-Junior Year, First Semester.)
(One Hour.)

792. (Pre-Junior Year, Second Semester.)
(One Hour.)

793. (Junior Year, First Semester.)
(One Hour.)

794. (Junior Year, Second Semester.)
(One Hour.)

MATHEMATICS

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

This course aims to give a general review of advanced algebra. The work includes quadratics with graphical representations, variation, partial fractions, logarithms and the general theory of equations.

727. Plane Trigonometry.—(Freshman Year, First Semester.)
(Four Hours.)
The work includes goniometry, trigonometric equations, solution of plane triangles and construction of tables. Effort is made to acquaint the student with the means of testing the accuracy of his work and to develop habits of neat arrangement and rough checking in his computations. Numerous applications to practical problems are made.

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

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

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

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

The work includes 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.

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

The work includes integration of standard forms, constant of integration, integration of rational fractions, trigonometric forms, integration by parts, integration by substitu-
tion, summations and definite integral, application to curves and simple volumes of revolution.

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

734. Engineering Mathematics.—(Entire Year.)
(Four Hours.)
This course is given during the senior year, and gives a review of the algebra, trigonometry, analytical geometry, calculus and analytical mechanics, showing the logical connection of the several subjects and their connection with engineering problems.

ECONOMICS

737. Economics. — (Junior Engineering and Sophomore Business Training Students, First Semester.)
(Six Hours.)
A consideration of the fundamental concepts of economics; definition of terms, theory of value, production, consumption, distribution, etc.

738. Economics. — (Junior Engineering and Sophomore Business Training Students, Second Semester.)
(Six Hours.)
A study of practical economic problems such as wages, interest, rent, currency, banking, taxation, trusts, tariff and socialism.

CHEMISTRY

741. (Freshman Year, First Semester.)
(Four hours recitation, four periods laboratory.)
A study of the newer theories of Chemistry with special attention to their application to commercial problems.
742. (Freshman Year, Second Semester.)
(Four hours recitation, four periods laboratory.)
A continuation of 741.
During the last half of the semester each student is required to make, and test before the class, at least one salt of each metal.
This course is planned to develop originality in the student rather than cover a large field. He is thrown upon his own resources as much as possible and taught how to attack a problem.

*743. Metallurgy.—(Summer Term.)
(Six Hours.)
A review of the properties of metals and ores and the principles used in the present practice of metallurgy.

PHYSICS

785. Elementary Mechanics. — (Freshman Year, First Semester.)
(Two Hours.)
The force triangle including the resolution and composition of forces. Parallel forces, moments and beam reactions. One recitation and one laboratory period per week.

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

781. General Physics.—(Sophomore Year, First Semester.)
(Four Hours.)
The work includes dynamics, velocity, acceleration, impulse, work and energy, projectiles, mechanics of liquids and gases, the properties of matter and its internal forces, wave motion, general principles of sound and of heat.

*Not given in summer of 1917.
783. General Physics Laboratory.—(Sophomore Year, First Semester.)
(Four Periods.)
Experiments involving mechanics, sound and heat.

782. General Physics.—(Sophomore Year, Second Semester.)
(Four Hours.)
The work includes light, electricity and magnetism.

784. General Physics Laboratory.—(Sophomore Year, Second Semester.)
(Four Periods.)
Experiments involving light, magnetism and electricity.

ENGINEERING

801. Co-ordination.—(Freshman Year, First Semester.)
(One Hour.)
Discussion of questions arising in students' work. Observation sheets, detailed reports and problems.

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

805. Shop Practice. (Freshman year, First Semester.)
(Two Hours.)
An elementary study of the processes, methods and equipment of production, including the work of the foundry, machine shop and forge shop.

806. Shop Practice. (Freshman Year, Second Semester.)
(Two Hours.) Continuation of 805.

803. Co-ordination.—(Sophomore Year, First Semester.)
(Two Hours.) Continuation of 802.
804. Co-ordination.—(Sophomore Year, Second Semester.)
(Two Hours.) Continuation of 803.

811. Mechanical Drawing.—(Freshman Year, First Semester.)
(Four Hours.)
Standard details of structural shapes, bolts, nuts, screws, etc. Free hand lettering and sketching. Elementary descriptive geometry.

812. Descriptive Geometry.—(Freshman Year, Second Semester.)
(Four Hours.)
Projections of lines, intersections of planes, projections of solids with practical applications. Free hand lettering and sketching.

832. Descriptive Geometry. (Freshman Year, Summer Term.) (Six Periods.) Continuation of 812.

813. Graphic Statics.—(Sophomore Year, First Semester.)
(Four Hours.)
The graphical solution of elementary problems in mechanics.

814. Machine Drawing.—(Sophomore Year, Second Semester.)
(Four Hours.)
Detail drawings from measurements of machines.

833. Strength of Materials. (Sophomore Year, Summer Term.) (Six Hours.)
Tensile, compressive and shearing stresses. Stress-strain diagrams.

815. Strength of Materials. (Pre-Junior Year, First Semester.) (Six Hours.)
Center of gravity, moment of inertia and radius of gyration. Theory and design of beams, columns and shafts.
816. Analytic Mechanics. (Pre-Junior Year, Second Semester.) (Six Hours.)
Kinematics, kinetics and dynamics accompanied by numerous problems.

817. Materials Laboratory. (Sophomore Year, Summer Term.) (Five afternoons for M. E.'s only.)
Tensile, compressive, transverse and torsional tests of the common kinds of wood, iron and steel. Standard tests of paving brick, rubber and other materials.

819. Materials Laboratory. (Pre-Junior Year, First Semester.) (One afternoon for C. E.'s, one afternoon for M. E.'s.) See 817.

818. Materials Laboratory. (Pre-Junior Year, Second Semester.) (One afternoon for C. E.'s only.) See 817.

821. Mechanism. Pre-Junior Year, First Semester.)
(Four Hours.)
A study of the various means of transmitting and modifying machine motions.

823. Graphics of Mechanism. (Pre-Junior Year, First Semester.) (Four Hours.)
Graphic representation of common methods of transmitting and modifying motion by means of cams, links and toothed wheels.

824. Hydraulics. (Pre-Junior Year, Second Semester.)
(Four Hours.)

820. Machine Design. (Pre-Junior Year, Second Semester.) (Six Hours.)
Elementary problems in the design of gearing, shafting, bearings, flywheels, cylinders and other machine parts.
822. Machine Design. (Pre-Junior Year, Summer Term.)
(Eight hours per day, five and one-half days per week.)

Complete design of two machines, one assigned by the instructor and one selected by the student and approved by the instructor.

825. Steam Engineering. — (Pre-Junior Year, First Semester.)
(Six Hours.)

Elements and economy of simple and complete steam plants.

826. Steam Engineering. — (Pre-Junior Year, Second Semester.)
(Six Hours.) A continuation of 825.

827. Roofs and Bridges. — (Pre-Junior Year, First Semester.)
(Seven Hours.)

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

828. Roofs and Bridges. — (Pre-Junior Year, Second Semester.)
(Ten Hours.) A continuation of 827.

830. Surveying. — (First Summer Term.)
(Ten Hours.)

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

831. Surveying. — (Second Summer Term.)
(Ten Hours.) A continuation of 830.

Tests and adjustments of instruments. Topographic Surveying.
835. Cement. (Junior Year, First Semester.)
(Three Hours.)
Theory and manufacture. Standard laboratory tests of cement, mortar and concrete.

836. Railroads. (Pre-Junior Year, Summer Term, C. E.'s only.)
An intensive course in railroad construction and surveying given eight hours per day, five and one-half days per week.

837. Mechanical Laboratory. (Junior Year, First Semester.) (Two afternoons for M. E.'s and one afternoon for C. E.'s.)
The standardization of instruments and the testing of boilers, steam engines and gas engines.

838. Mechanical Laboratory. (Junior Year, Second Semester.) Continuation of 837.

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

840. Production Engineering. (Junior Year, Second Semester.) (Five Hours.)
A study of the principles underlying production management, including motion study and time setting, wage systems, time and stock systems, routing of work and factory lay-outs.

841. Electricity. (Junior Year, First Semester.)
(Six Hours.)
Theory of Electricity and Magnetism.
This course is mainly a mathematical treatment of the subject. It includes a general treatment of permanent magnets, terrestrial magnetism, electrostatics, capacity, electro-thermo electricity, and general electro-magnetic theory. During each semester about 500 problems involving practical applications are solved.
843. *Electricity. (Junior Year, Second Semester.)*
(Six Hours.)
This course is a continuation of course 841. During the second semester a detailed study of theory of meters, direct and alternating current machinery is made in addition to the problem work.

843. *Electrical Laboratory. (Junior Year, First Semester.)*
(Two Afternoons.)
This course is designed to supplement and correlate course number 841.

844. *Electrical Laboratory. (Junior Year, Second Semester.)*
(Two Afternoons.)
This course is designed to supplement and correlate course number 841.

845. *Structural Design. (Junior Year, First Semester.)*
(Two Hours.)
The design of a roof truss, plate girder and pin-connected truss, including the details of the important joints. Contracts, specifications, shop inspection trips.

846. *Structural Design. (Junior Year, Second Semester.)*
(Five Hours.) Completion of 845.
College of Engineering and Department of Business Training

SCHEDULE
of
CLASSES
**FIRST SEMESTER**

**1917—1918**

**MONDAY**
- Mathematics 727
- French 719
- Economics 707

**7:30**
- Spanish 917
- Co-ordination 801
- Math 731
- Steam Eng'r'g. 825

**8:25**
- Co-ordination 901
- Chemistry Lab. 741
- Machine Shop Tools 829
- Cement 805

**10:15**
- Co-ordination 806
- Chemistry 741
- Co-ordination 906
- Cement 805

**11:10**
- Economic Geography 927
- Spanish 918
- Materials Lab. 819
- Cost Accounting 915

**1:00**
- English Lit. 711
- Chemical D’w’g 811
- Production Eng. 840
- Graphic Statics. 814

**5:00**
- Accounting Problems

**TUESDAY**
- Mathematics 725
- French 719
- Steam Eng'r'g. 825
- Economics 707

**8:25**
- Co-ordination 901
- Physics Lab. 785
- Machine Shop Tools 829
- Cement 825

**10:15**
- Co-ordination 906
- Chemistry Lab. 741
- Physics Lab. 783
- Mechanism 861

**11:10**
- Co-ordination 802
- Shop Practice 806
- Spanish 918
- Materials Lab. 820

**1:00**
- English Lit. 711
- Mechanical D’w’g 811
- Production Eng. 840
- Graphic Statics. 814

**5:00**
- Accounting Problems

**WEDNESDAY**
- Mathematics 727
- French 719
- Steam Eng'r'g. 825
- Economics 707

**8:25**
- Co-ordination 901
- Physics Lab. 785
- Machine Shop Tools 829
- Cement 825

**10:15**
- Co-ordination 906
- Chemistry Lab. 741
- Physics Lab. 783
- Mechanism 861

**11:10**
- Co-ordination 802
- Shop Practice 806
- Spanish 918
- Materials Lab. 820

**SECOND SEMESTER**

**1917—1918**

**MONDAY**
- Mathematics 728
- French 720
- Steam Eng'r'g. 826
- Structural Design 846

**7:30**
- Spanish 918
- Co-ordination 802
- Math 732
- Analytic Mechanics 816

**8:25**
- Co-ordination 902
- Physics Lab. 742
- Production Eng. 840
- Structural Design 846

**10:15**
- Co-ordination 904
- Chemistry Lab. 742
- Physics Lab. 784
- Economic Geog. 928

**11:10**
- English Literature 712
- Economic Geog. 928
- Graphic Statics. 814
- Descriptive Geom. 812

**1:00**
- Materials Lab. 820
- Theory of Acc’ts. 916
- Machine Design 820

**5:00**
- Accounting Problems

**TUESDAY**
- Mathematics 725
- French 720
- Steam Eng'r'g. 825
- Economics 707

**8:25**
- Co-ordination 901
- Physics Lab. 785
- Machine Shop Tools 829
- Cement 825

**10:15**
- Co-ordination 906
- Chemistry Lab. 741
- Physics Lab. 783
- Mechanism 861

**11:10**
- Co-ordination 802
- Shop Practice 806
- Spanish 918
- Materials Lab. 820

**1:00**
- Production Eng. 840
- Production Eng. 840
- Structural Design 846

**5:00**
- Accounting Problems

**WEDNESDAY**
- Mathematics 727
- French 719
- Steam Eng'r'g. 825
- Economics 707

**8:25**
- Co-ordination 901
- Physics Lab. 785
- Machine Shop Tools 829
- Cement 825

**10:15**
- Co-ordination 906
- Chemistry Lab. 741
- Physics Lab. 783
- Mechanism 861

**11:10**
- Co-ordination 802
- Shop Practice 806
- Spanish 918
- Materials Lab. 820

**1:00**
- Production Eng. 840
- Production Eng. 840
- Structural Design 846

**5:00**
- Accounting Problems

**1:00**
- Theory of Acc’ts. 916
### FIRST SEMESTER
#### 1917—1918

<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Mathematics 727</td>
<td>Mathematics 725</td>
<td>Mathematics 727</td>
</tr>
<tr>
<td></td>
<td>French 719</td>
<td>French 719</td>
<td>French 719</td>
</tr>
<tr>
<td></td>
<td>Steam Eng'g 825</td>
<td>Steam Eng'g 825</td>
<td>Steam Eng'g 825</td>
</tr>
<tr>
<td></td>
<td>Economics 737</td>
<td>Economics 737</td>
<td>Economics 737</td>
</tr>
<tr>
<td>8:25</td>
<td>Spanish 917</td>
<td>Spanish 917</td>
<td>Spanish 917</td>
</tr>
<tr>
<td></td>
<td>Mathematics 731</td>
<td>Mathematics 731</td>
<td>Mathematics 731</td>
</tr>
<tr>
<td></td>
<td>Strength of Mat'ls 815</td>
<td>Strength of Mat'ls 815</td>
<td>Strength of Mat'ls 815</td>
</tr>
<tr>
<td></td>
<td>Electricity 841</td>
<td>Electricity 841</td>
<td>Electricity 841</td>
</tr>
<tr>
<td>9:20</td>
<td>Chemistry 741</td>
<td>Assembly</td>
<td>Chemistry 741</td>
</tr>
<tr>
<td></td>
<td>Physics 781</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Machine Shop Tools 839</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Structural Design 845</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Physics Lab. 783</td>
<td>Physics Lab. 783</td>
<td>Physics Lab. 783</td>
</tr>
<tr>
<td></td>
<td>Structural Design 845</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Economic Geography 927</td>
<td>Economic Geography 927</td>
<td>Economic Geography 927</td>
</tr>
<tr>
<td></td>
<td>Chemistry Lab. 741</td>
<td>Chemistry Lab. 741</td>
<td>Chemistry Lab. 741</td>
</tr>
<tr>
<td></td>
<td>Physics Lab. 783</td>
<td>Physics Lab. 783</td>
<td>Physics Lab. 783</td>
</tr>
<tr>
<td></td>
<td>Structural Design 845</td>
<td>Structural Design 845</td>
<td>Structural Design 845</td>
</tr>
<tr>
<td></td>
<td>Mechanism 821</td>
<td>Mechanism 821</td>
<td>Mechanism 821</td>
</tr>
<tr>
<td></td>
<td>Roofs and Bridges 827</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>Elem. Mechanics 785</td>
<td>Mechanical Des'gn 811</td>
<td></td>
</tr>
<tr>
<td></td>
<td>to</td>
<td>(1:00 to 3:40)</td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td>Economics Lab. 783</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physics 718</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Machine Shop Tools 839</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Structural Design 845</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECOND SEMESTER
#### 1917—1918

<table>
<thead>
<tr>
<th>Time</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Mathematics 728</td>
<td>Mathematics 726</td>
<td>Mathematics 728</td>
</tr>
<tr>
<td></td>
<td>French 720</td>
<td>French 720</td>
<td>French 720</td>
</tr>
<tr>
<td></td>
<td>Steam Eng'g 826</td>
<td>Steam Eng'g 826</td>
<td>Steam Eng'g 826</td>
</tr>
<tr>
<td></td>
<td>Economics 738</td>
<td>Economics 738</td>
<td>Economics 738</td>
</tr>
<tr>
<td></td>
<td>Roofs and Bridges 828</td>
<td>Roofs and Bridges 828</td>
<td>Roofs and Bridges 828</td>
</tr>
<tr>
<td>8:25</td>
<td>Spanish 918</td>
<td>Spanish 918</td>
<td>Spanish 918</td>
</tr>
<tr>
<td></td>
<td>Mathematics 732</td>
<td>Mathematics 732</td>
<td>Mathematics 732</td>
</tr>
<tr>
<td></td>
<td>Analytic Mechanics 816</td>
<td>Analytic Mechanics 816</td>
<td>Analytic Mechanics 816</td>
</tr>
<tr>
<td></td>
<td>Electricity 842</td>
<td>Electricity 842</td>
<td>Electricity 842</td>
</tr>
<tr>
<td>9:20</td>
<td>Chemistry 742</td>
<td>Assembly</td>
<td>Chemistry 742</td>
</tr>
<tr>
<td></td>
<td>Physics 782</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Production Eng. 840</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Structural Design 846</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Chem. Lab. 742</td>
<td>Chem. Lab. 742</td>
<td>Chem. Lab. 742</td>
</tr>
<tr>
<td></td>
<td>Physics Lab. 784</td>
<td>Physics Lab. 784</td>
<td>Physics Lab. 784</td>
</tr>
<tr>
<td></td>
<td>Structural Design 846</td>
<td>Structural Design 846</td>
<td>Structural Design 846</td>
</tr>
<tr>
<td></td>
<td>Hydraulics 824</td>
<td>Hydraulics 824</td>
<td>Hydraulics 824</td>
</tr>
<tr>
<td></td>
<td>Economic Geog. 928</td>
<td>Economic Geog. 928</td>
<td>Economic Geog. 928</td>
</tr>
<tr>
<td>11:10</td>
<td>Structural Design 846</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical Lab. 838</td>
<td>Descriptive Geom. 812</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(M. E.'s only)</td>
<td>(1:00 to 3:40)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ele. Mech. 786</td>
<td>Materials Lab. 819</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roofs and Bridges 828</td>
<td>(C. E.'s)</td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>Machine Design 820</td>
<td>Graph Statics. 814</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Accounting Problems</td>
<td>Machine Design 820</td>
<td></td>
</tr>
<tr>
<td>5:00</td>
<td></td>
<td>Electrical Lab. 844</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bookkeeping 912</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1:00 to 3:40)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Theory of Acc'ts. 916</td>
<td></td>
</tr>
</tbody>
</table>
DEPARTMENT OF BUSINESS TRAINING

Assistant-Professor Bennett

GENERAL INFORMATION

The course in Business Training was established by the Board of Directors of the University in 1916, and opened with the fall term in September. It is conducted on the co-operative plan as is the course in Engineering, but is open to students of both sexes. The aim of the course is to give the student an opportunity to secure a rounded education and, at the same time, a clear insight into numerous forms of business activity, thru actual experience. The course not only gives the student a general college education, but also prepares him for a business career in any field which he may choose. This is accomplished by means of the co-operative plan whereby the student spends half of his time in a factory or other business office, and the other half in classroom work. A student of application and ambition may readily work into whatever department of the business field he has capacity and liking for—and in this way secures an excellent opportunity of becoming a valuable employee to the company, and of being retained in their service at the expiration of his college course. Wages are paid to the student throughout the five years at a slightly lower rate than that paid to other employees doing similar work.

The administration of the course is in charge of the Dean of the College of Engineering and applications and inquiries should be addressed to him. Details of the operation of the course, its length, requirements for admission, tuition, fees, etc., are the same as in the College of Engineering. (See pages 93 to 95.)

DEGREES.

Students completing the required work will receive the degree of Bachelor of Science in Business Training.
# OUTLINE OF COURSE

(First two years)

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Exercises per</th>
<th>First Semester alternate period</th>
<th>Second Semester alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 725 and 727</td>
<td>6</td>
<td>Commercial Geography 914</td>
</tr>
<tr>
<td>Spanish 917</td>
<td>6</td>
<td>Spanish 918</td>
</tr>
<tr>
<td>Co-ordination 901</td>
<td>2</td>
<td>Co-ordination 903</td>
</tr>
<tr>
<td>English 701</td>
<td>1</td>
<td>English 702</td>
</tr>
<tr>
<td>Chemistry 741</td>
<td>8</td>
<td>Chemistry 742</td>
</tr>
<tr>
<td>Elementary Bookkeeping 911</td>
<td>4</td>
<td>Advanced Bookkeeping 912 or Theory of Accounts 916</td>
</tr>
</tbody>
</table>

### Summer Term

Theory of Accounts, 916 or Cost Accounting 915 | 14 |
Advertising Principles 920 | 8 |

## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Exercises per</th>
<th>First Semester alternate period</th>
<th>Second Semester alternate period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary Economics 737</td>
<td>6</td>
<td>Advanced Economics 738</td>
</tr>
<tr>
<td>Spanish 917</td>
<td>6</td>
<td>Spanish 918</td>
</tr>
<tr>
<td>Co-ordination 903</td>
<td>3</td>
<td>Co-ordination 904</td>
</tr>
<tr>
<td>English 702</td>
<td>1</td>
<td>English 704</td>
</tr>
<tr>
<td>Economic Geography 927</td>
<td>6</td>
<td>Economic Geography 928</td>
</tr>
<tr>
<td>Cost Accounting, 915, or Accounting Problems No. 1</td>
<td>4</td>
<td>or Acc. Problems No. 2</td>
</tr>
</tbody>
</table>
All work of a general nature such as English, Mathematics, Chemistry, etc., is taken with the engineering students, and the description of these courses may be found under the Course in Engineering.

Courses for the third and fourth years will be announced later. The curriculum will include such courses as Money and Banking, Transportation, Salesmanship, Marketing Methods, Business Organization, etc.

901. Co-ordination.—(Freshman Year, First Semester.)
   (Two Hours.)
   Discussion of questions arising in students’ work. Observation sheets, detailed reports and problems.

902. Co-ordination.—(Freshman Year, Second Semester.)
   (Two Hours.)
   Continuation of 901.

903. Co-ordination.—(Sophomore Year, First Semester.)
   (Two Hours.)
   Continuation of 902.

904. Co-ordination.—(Sophomore Year, Second Semester.)
   (Two Hours.)
   Continuation of 903.

917. Spanish.—(Freshman Year, First Semester.)
   (Six Hours.)
   Espinosa and Allen’s Elementary Spanish Grammar. Readers to be selected. As soon as practicable, the students will be given work of definite commercial value in translation and composition.

*Given to Freshmen and Sophomores in 1917-1918.
918. Spanish.—(Freshman Year, Second Semester.)
(Six Hours.) Continuation of 917.

911. Elementary Bookkeeping.—(First year, first semester.)
(Four Hours.)

The purpose of the course is to prepare the student for admission to the advanced work, and everything not strictly bookkeeping is excluded. It presents the common principles underlying all systems of accounts, and considers thoroughly the terms, methods, and forms that must be understood by all bookkeepers, all transactions which are likely to occur in the conduct of a business. Special attention is paid to journalizing. The training is such that one will be able to express in journal-entry form any bookkeeping facts which may be presented to him. The course is practical in every way.

Some of the topics treated are: Principles of double entry, Form of an account, Cash account, Merchandise account, Expense accounts, Personal accounts, Proprietor's account, Journal, Ledger, Single Proprietor, Partnership, Trial balance, Simple statements, Articles of co-partnership, Drawings, Division of profits, Columnarization, Return purchases, Discounts, Commercial paper, Controlling accounts, Principles of classification.

912-913. Advanced Bookkeeping. (First Year, both semesters.) (Four Hours.)

This subject is an introduction to the study of accounting as adapted to the demands of general business. It aims to give students an understanding of fundamental principles and ability to apply them. Practice is regarded as most essential, the students being required to work out complete sets of transactions in books of account. The transactions begin with the accounts of a corporation.

Some of the topics treated are: The opening, adjusting and closing of corporation accounts, Corporation law and

*Given to Freshmen and Sophomores in 1917-18.
procedure from the accounting standpoint, Stock, Stock
discount and premiums, Surplus, Goodwill, Depreciation,
Subscriptions, Capital, Corporation records, Preparation of
detailed revenue statements, Consignments, Dividends, Sinking
funds.

914. Commercial Geography.—(Freshman year, second
semester.)
(Six Hours.)
This course includes an intensive study of the industries
of the principal commercial nations of the world, empha-
sizing man's activities as a direct response to geographic
control and environment. The relation between exports and
imports. Social and moral effects of commerce. Interpre-
tation of comparative statistics, Maps, Charts, Illustrative
material. Those countries will be considered first which
contribute the raw material used in the industries of Akron.

915. Cost Accounting.—(One semester.)
(Eight Hours.)
Cost accounting principles and methods, reasons, condi-
tions and elements. Materials, supplies, labor, and overhead,
are traced from the time acquired through the various steps
until located in the finished product. Wage systems, effi-
ciency work, graphs, and charts, etc., are considered care-
fully.

916. Theory of Accounts.—(One semester.)
(Eight Hours.)
The principles underlying bookkeeping practices, the de-
signing of systems and records, and the relation of these
principles to economics, law, finance, and business organi-
ization.

926. Advertising Principles.—(Freshman year. Summer
Term.) (Eight Hours.)
A practical application of the principles of psychology
and of business English to the problems of the advertiser.
927. Economic Geography.—(Sophomore Year, First Semester.) (Six Hours.)

A general survey of the geography of the principal commercial nations to emphasize their influence in commercial relations with other countries of the world. A careful study and analysis is made of the geographic, human and economic causes underlying the industrial and commercial development of nations which tend to determine the localization and diffusion of industries.

928. Economic Geography.—(Sophomore Year, Second Semester.)

(Six Hours.) Continuation of 927.

Accounting Problems.

The various courses in accounting problems follow each other in logical sequence. Each course consists of the careful study and solution of various problems selected from Certified Public Accountant examinations and other sources, and of the analysis of the principles of theory underlying the correct solution of each problem given. The principles brought out in the preceding courses are reviewed constantly.
CURTIS SCHOOL OF HOME ECONOMICS

DIRECTOR, SARAH E. STIMMEL, B. S.

GENERAL INFORMATION

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

Admission

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

Entrance Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2 1/2</td>
</tr>
<tr>
<td>Foreign Language*</td>
<td>4</td>
</tr>
<tr>
<td>Physics</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>4 1/2</td>
</tr>
</tbody>
</table>

*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 thorough training in those branches of science essential to intelligent home
management with the broadest possible cultural education and forms a basis for those who wish to specialize in Home Economics or other lines of work. Special attention will be given to providing training for those who may wish to become teachers of the subject.

**OUTLINE OF REQUIRED STUDIES**

**First Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Term hrs.</th>
<th>Second Semester</th>
<th>Term hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 351 or 353</td>
<td>4</td>
<td>Chemistry 352 or 354</td>
<td>4</td>
</tr>
<tr>
<td>English 51</td>
<td>3</td>
<td>English 52</td>
<td>3</td>
</tr>
<tr>
<td>*Modern Language</td>
<td>3 or 4</td>
<td>*Modern Language</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Biology 401</td>
<td>4</td>
<td>Biology 402</td>
<td>4</td>
</tr>
<tr>
<td>Physical Training</td>
<td></td>
<td>Designing 601</td>
<td>1</td>
</tr>
<tr>
<td>Hygiene 415</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15 or 16</td>
<td><strong>Total</strong></td>
<td>15 or 16</td>
</tr>
</tbody>
</table>

**Second Year**

| Organic Chemistry 631 | 3 | Organic Chemistry 622 | 3 |
| *Physiology 409 | 4 | *Physiology 410 | 4 |
| Foods 605 | 4 | Foods 608 | 4 |
| *Modern Language | 3 | *Modern Language | 3 |
| Mechanical Drawing 625 | 1½ | House Planning 626 | 1½ |
| Textiles 603 | 2 | Textiles 604 | 2 |
| **Total** | 17½ | **Total** | 17½ |

**Third Year**

| Household Chemistry 623 | 3 | Household Chemistry 624 | 3 |
| History Western Europe 275 | 3 | Hist. Western Europe 276 | 3 |
| Bacteriology 627 | 2 | Bacteriology 628 | 2 |
| Art 607 | 2 | Art 608 | 2 |
| Dress 609 | 3 | | |
| English 65 | 3 | English 65 | 3 |
| **Total** | 16 | **Total** | 16 |

**Fourth Year**

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

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

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

*Offered 1917-18 and alternate years.
Degrees

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

Fees

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

Laboratory Fees

Chemistry 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.

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

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

All courses numbered over 600 are offered primarily only for students in the school of Home Economics and may be elected by students in the college of Liberal Arts only under the restrictions imposed by that College. For description of courses mentioned only by number, see pages 49-86 of general catalog.

HOME ECONOMICS

PROFESSOR STIMMEL

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

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

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

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

609. Dress.—(First Semester.)
M., 1:00-5:00; W., 11:10. (Three term hours.)
Prerequisite, Textiles 603-4; concurrent, Art 607. The making of a simple unlined dress. Drafting and modifica-
tion of pattern; selection and combination of suitable materials. A study of dress from the historical, hygienic and economical standpoints.

612. Sanitation.—(Second Semester.)

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

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

613. Dietetics.—(First Semester.)

M., F., 11:10. Laboratory. Tu., Th., 1:00-3:00.

(Four term hours.)


615. The House.—(First Semester.)

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

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

616. The House.—(Second Semester.)

A continuation of 615.

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

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

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

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

Continuation of 619.
618. Seminar.—(Second Semester.)
(Two term hours.)
Open only to seniors.

PHYSICAL TRAINING

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

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

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

ENGLISH

Courses: 51, 52, 65, 66.

GERMAN

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

FRENCH

Courses: 151, 152, 153, 154.

ECONOMICS AND SOCIOLOGY

Courses: 251, 252.

HISTORY

Courses: 275, 276.

CHEMISTRY

Courses: 351, 352, 353, 354.

621. Organic Chemistry.—(First Half-Year.)

Five hours per week. Tu., 10:15, and Th., 11:10; Tu., 3:00-5:00. (Three term hours.)
The course is designed to give a thorough knowledge of the principal classes of organic compounds and their most important derivatives. The laboratory practice consists of the preparation of typical compounds.

Prerequisite—One year of general chemistry.

622. Organic Chemistry.—(Second Half-Year.)
    Continuation of 621.

623. Household Chemistry.—(First Semester.)
    Six hours per week. Th., 8:25; Tu., 1:00-3:00; Th., 3:00-5:00. (Three term hours.)

    This course includes the chemistry of foods and testing for adulterations; also the chemistry of cooking and cleaning. This course is open to students who have completed Course 622.

624. Household Chemistry.—(Second Semester.)
    Continuation of 623.

BIOLOGY

Courses: 401, 402, 409, 410.

BACTERIOLOGY

ASSISTANT-PROFESSOR HARDGROVE

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

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

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

628. Bacteriology.—(Second Semester.)
    Continuation of 627.
MECHANICAL DRAWING
MR. BOENISCH.

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

626. House Planning.—(Second Semester.)
M., 1:00-4:00. (One and one-half term hours.)
Prerequisite, Mechanical Drawing 625.

DESIGNING AND ART
MR. BOENISCH.

602. Designing.—(Second Semester.)
Wed., 3:00-5:00. (One term hour.)
To develop a taste for harmony in color, line and space.
Work done in pencil, pen, charcoal and water color.

607. Art.—(First Semester.)
Tu., 3:00-5:00; F., 1:00-3:00. (Two term hours.)
Prerequisite, Designing. A continuation of Designing
with advanced problems in color and line.

608. Art.—(Second Semester.)
Tu., 3:00-5:00; F., 1:00-3:00. (Two term hours.)
Continuation of 607.
## SCHEDULE FOR FIRST SEMESTER
### 1916-1917

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7:30</strong></td>
<td>French 153</td>
<td>German 106</td>
</tr>
<tr>
<td><strong>8:25</strong></td>
<td>Hist. West Europe 275</td>
<td>Biology 401</td>
</tr>
<tr>
<td></td>
<td>Chemistry 351a</td>
<td>Chemistry 351a</td>
</tr>
<tr>
<td><strong>9:20</strong></td>
<td>Rhetoric 51a</td>
<td>German 101a</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
<td>French 151a</td>
</tr>
<tr>
<td></td>
<td>English 65</td>
<td>Foods 505</td>
</tr>
<tr>
<td></td>
<td>Economics 351</td>
<td>Bacteriology 627</td>
</tr>
<tr>
<td></td>
<td>Physiology 409</td>
<td>German 103a</td>
</tr>
<tr>
<td></td>
<td>Lessing 123</td>
<td>German 101b</td>
</tr>
<tr>
<td><strong>10:15</strong></td>
<td>Sub-fresh. Rhet. 51</td>
<td>Org. Chem. 621</td>
</tr>
<tr>
<td></td>
<td>Rhetoric 51b</td>
<td>Bacteriology 627</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
<td>Teachers' Course 619</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
<td>Chemistry 351b</td>
</tr>
<tr>
<td></td>
<td>House 615</td>
<td>German 101b</td>
</tr>
<tr>
<td><strong>11:15</strong></td>
<td>German 101b</td>
<td>German 101b</td>
</tr>
<tr>
<td></td>
<td>Dietetics 613</td>
<td>German 103b</td>
</tr>
<tr>
<td></td>
<td>French 151a</td>
<td>French 151b</td>
</tr>
<tr>
<td><strong>AFTERNOON</strong></td>
<td><strong>AFTERNOON</strong></td>
<td><strong>AFTERNOON</strong></td>
</tr>
<tr>
<td><strong>1:00</strong></td>
<td>Fresh. Chem. 351a</td>
<td>Chemistry 353</td>
</tr>
<tr>
<td>to <strong>3:00</strong></td>
<td>Biology 401a</td>
<td>Biology 401b</td>
</tr>
<tr>
<td></td>
<td>Dress 609</td>
<td>Chemistry 352</td>
</tr>
<tr>
<td></td>
<td>Mech. Dr. 625</td>
<td>Designing 601</td>
</tr>
<tr>
<td><strong>to 3:00</strong></td>
<td>Chemistry 351b</td>
<td>Chemistry 621</td>
</tr>
<tr>
<td></td>
<td>Dress 609</td>
<td>Art 607</td>
</tr>
<tr>
<td></td>
<td>Mech. Dr. 625</td>
<td>till 4 o'clock</td>
</tr>
<tr>
<td><strong>5:00</strong></td>
<td>Gymnasium</td>
<td>Gymnasium</td>
</tr>
<tr>
<td><strong>2:00-4:00</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **French 153**
- **Hist. West Europe 275**
- **German 106**
- **Rhetoric 51a**
- **Economics 351**
- **Physiology 409**
- **Lessing 123**
- **Org. Chem. 621**
- **Bacteriology 627**
- **Teachers' Course 619**
- **German 103a**
- **House 615**
- **Dietetics 613**
- **Chemistry 351b**
- **German 101b**
- **French 151a**
- **Biology 401a**
- **Chemistry 352**
- **Designing 601**
- **Chemistry 351b**
- **Dress 609**
- **Art 607**
- **Hygiene 415**
- **Bacteriology 627**
- **Gymnasium**
### SCHEDULE FOR FIRST SEMESTER

**1916-1917**

**THURSDAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>German 106</td>
</tr>
<tr>
<td></td>
<td>Chemistry 353</td>
</tr>
<tr>
<td>8:25</td>
<td>Biology 401</td>
</tr>
<tr>
<td></td>
<td>Chemistry 512</td>
</tr>
<tr>
<td></td>
<td>Chemistry 623</td>
</tr>
<tr>
<td>9:20</td>
<td>Rhetoric 51a</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
</tr>
<tr>
<td></td>
<td>French 151a</td>
</tr>
<tr>
<td></td>
<td>Economics 251</td>
</tr>
<tr>
<td></td>
<td>Psychology 409</td>
</tr>
<tr>
<td></td>
<td>Leasing 133</td>
</tr>
<tr>
<td>10:15</td>
<td>Chemistry 351b</td>
</tr>
<tr>
<td></td>
<td>Foods 605</td>
</tr>
<tr>
<td>11:10</td>
<td>Teachers' Course 619</td>
</tr>
<tr>
<td>1:00</td>
<td>Textiles 603</td>
</tr>
<tr>
<td>to</td>
<td>Biology 401b</td>
</tr>
<tr>
<td>3:00</td>
<td>Dietetics 613</td>
</tr>
</tbody>
</table>

**FRIDAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>French 133</td>
</tr>
<tr>
<td>8:25</td>
<td>Hist. West Europe 273</td>
</tr>
<tr>
<td>9:20</td>
<td>Assembly</td>
</tr>
<tr>
<td>10:15</td>
<td>Sub-fresh. Rhet. 51</td>
</tr>
<tr>
<td></td>
<td>Rhetoric 31b</td>
</tr>
<tr>
<td></td>
<td>English 65</td>
</tr>
<tr>
<td></td>
<td>German 131</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
</tr>
<tr>
<td></td>
<td>House 616</td>
</tr>
<tr>
<td>11:10</td>
<td>German 101b</td>
</tr>
<tr>
<td></td>
<td>German 101b</td>
</tr>
<tr>
<td></td>
<td>Dietetics 613</td>
</tr>
<tr>
<td></td>
<td>French 151b</td>
</tr>
<tr>
<td></td>
<td>Fresh Biol. Sem. 411</td>
</tr>
<tr>
<td>1:00</td>
<td>Chemistry 351a</td>
</tr>
<tr>
<td></td>
<td>Art 607</td>
</tr>
<tr>
<td></td>
<td>Foods 605</td>
</tr>
</tbody>
</table>

**SATURDAY**

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>German 106</td>
</tr>
<tr>
<td></td>
<td>Chemistry 353</td>
</tr>
<tr>
<td>8:25</td>
<td>Biology 401</td>
</tr>
<tr>
<td></td>
<td>Chemistry 512</td>
</tr>
<tr>
<td></td>
<td>Chemistry 623</td>
</tr>
<tr>
<td>9:20</td>
<td>Rhetoric 51a</td>
</tr>
<tr>
<td></td>
<td>German 101a</td>
</tr>
<tr>
<td></td>
<td>French 151a</td>
</tr>
<tr>
<td></td>
<td>Economics 251</td>
</tr>
<tr>
<td></td>
<td>Psychology 409</td>
</tr>
<tr>
<td></td>
<td>Leasing 133</td>
</tr>
<tr>
<td>10:15</td>
<td>Chemistry 351b</td>
</tr>
<tr>
<td></td>
<td>Foods 605</td>
</tr>
<tr>
<td>11:10</td>
<td>Teachers' Course 619</td>
</tr>
<tr>
<td>1:00</td>
<td>Textiles 603</td>
</tr>
<tr>
<td>to</td>
<td>Biology 401b</td>
</tr>
<tr>
<td>3:00</td>
<td>Dietetics 613</td>
</tr>
<tr>
<td>3:00</td>
<td>Textiles 603</td>
</tr>
<tr>
<td>to</td>
<td>till 4 o'clock</td>
</tr>
<tr>
<td>5:00</td>
<td>Fresh Biol. Sem. 401</td>
</tr>
<tr>
<td>5:00</td>
<td>Gymnasium</td>
</tr>
<tr>
<td>2:00</td>
<td>4:00</td>
</tr>
</tbody>
</table>
## SCHEDULE FOR SECOND SEMESTER

**1916-1917**

<table>
<thead>
<tr>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7:30</strong></td>
<td><strong>8:25</strong></td>
<td></td>
</tr>
<tr>
<td>French 154</td>
<td>Hist. West Europe 278</td>
<td>History 278</td>
</tr>
<tr>
<td><strong>9:20</strong></td>
<td><strong>10:15</strong></td>
<td></td>
</tr>
<tr>
<td>Rhetoric 52a</td>
<td>English 69</td>
<td></td>
</tr>
<tr>
<td>French 152a</td>
<td>German 102a</td>
<td></td>
</tr>
<tr>
<td>German 124</td>
<td>German 102a</td>
<td></td>
</tr>
<tr>
<td>Physiology 410</td>
<td>Biology 402</td>
<td></td>
</tr>
<tr>
<td>German 124</td>
<td>Chem. 354</td>
<td></td>
</tr>
<tr>
<td><strong>11:10</strong></td>
<td><strong>12:00</strong></td>
<td></td>
</tr>
<tr>
<td>German 102b</td>
<td>German 104b</td>
<td></td>
</tr>
<tr>
<td>Sanitation 612</td>
<td>Class Meetings</td>
<td></td>
</tr>
<tr>
<td>French 152b</td>
<td>German 104b</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1:00</strong></td>
<td><strong>3:00</strong></td>
<td></td>
</tr>
<tr>
<td>Chemistry 352a</td>
<td>Chemistry 354</td>
<td></td>
</tr>
<tr>
<td>to 3:00</td>
<td>Chemistry 354</td>
<td></td>
</tr>
<tr>
<td>House Planning</td>
<td>Biology 402a</td>
<td></td>
</tr>
<tr>
<td>626</td>
<td>Biology 402b</td>
<td></td>
</tr>
<tr>
<td>Chemistry 626</td>
<td>Chemistry 624</td>
<td></td>
</tr>
<tr>
<td><strong>3:00</strong></td>
<td><strong>5:00</strong></td>
<td></td>
</tr>
<tr>
<td>Chemistry 352b</td>
<td>Chemistry 622</td>
<td></td>
</tr>
<tr>
<td>to 5:00</td>
<td>Bacteriology 628</td>
<td></td>
</tr>
<tr>
<td>House Planning</td>
<td>Art 608</td>
<td></td>
</tr>
<tr>
<td>626</td>
<td>till 4 o'clock</td>
<td></td>
</tr>
<tr>
<td>Gymnasium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00-4:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Thursday</td>
<td>Friday</td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>---------</td>
</tr>
<tr>
<td>7:30</td>
<td>German 104</td>
<td>French 154</td>
</tr>
<tr>
<td></td>
<td>Chemistry 264</td>
<td></td>
</tr>
<tr>
<td>8:25</td>
<td>Biology 402</td>
<td>Hist. West Europe 276</td>
</tr>
<tr>
<td></td>
<td>Chemistry 352a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry 024</td>
<td></td>
</tr>
<tr>
<td>9:00</td>
<td>Rhetoric 52a</td>
<td>Assembly</td>
</tr>
<tr>
<td></td>
<td>German 102a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>French 152a</td>
<td></td>
</tr>
<tr>
<td>9:20</td>
<td>Sociology 232</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physiology 410</td>
<td></td>
</tr>
<tr>
<td></td>
<td>German 124</td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Chemistry 352b</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foods 600</td>
<td></td>
</tr>
<tr>
<td>11:10</td>
<td>Org. Chemistry 022</td>
<td>German 102b</td>
</tr>
<tr>
<td></td>
<td>Teachers' Course 020</td>
<td>German 104b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sanitation 812</td>
</tr>
<tr>
<td></td>
<td></td>
<td>French 125b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fresh. Biol. Sem. 410</td>
</tr>
<tr>
<td>1:00</td>
<td>Textiles 604</td>
<td>Chemistry 352a</td>
</tr>
<tr>
<td></td>
<td>Biology 402b</td>
<td>Art 608</td>
</tr>
<tr>
<td></td>
<td>to 3:00</td>
<td>Foods 606</td>
</tr>
<tr>
<td>3:30</td>
<td>Chemistry 024</td>
<td>Chemistry 352b</td>
</tr>
<tr>
<td></td>
<td>Textiles 064</td>
<td>to 5:00</td>
</tr>
<tr>
<td></td>
<td>to 3:00</td>
<td>Fresh. Biol. Sem. 402</td>
</tr>
<tr>
<td>5:00</td>
<td>to 5:00</td>
<td>3:00-4:00</td>
</tr>
</tbody>
</table>
EVENING CLASSES

1917-1918

The University will offer during the college year 1917-18 a number of courses for the especial benefit of teachers, employed persons, and citizens in general who may wish to enter the work. Only such courses as are elected by eight or more persons will be offered. These courses are, as far as possible, of college grade. They are divided into two classes.

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

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

ADMISSION.

Class A and B courses are open:

1. To all persons who have completed the course of a first grade high school.

2. To all other persons over 21 years of age not high school graduates, subject to the approval of the instructor in charge as to ability and preparation. Those working for an eventual college degree must complete the regular college entrance requirements before they can be considered candidates for a degree.

REGISTRATION

Registration will take place on the following days:

For the first Semester:

Friday and Saturday, September 14 and 15, 1917, from 2:00 to 5:00 P. M. and from 6:30 to 7:30 P. M. To all registering after these dates a late-registration fee will
be charged. (See statement under Fees.) No registration for entry to classes will be allowed after Saturday, September 22.

For the second semester:

Friday and Saturday, February 1 and 2, 1918, from 2:00 to 5:00 P.M. and from 6:30 to 7:30 P.M. To all registering after these dates a late-registration fee will be charged. (See statement under Fees.) No registrations for entry to classes will be allowed after Saturday, February 9.

Class work for the first semester will begin Wednesday, September 19, 1917, and will close on February 1, 1918.

Class work for the second semester will begin Wednesday, February 6, 1918, and will close on June 14, 1918.

**CREDIT**

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

**FEES**

*Incidental and Tuition Fees*

<table>
<thead>
<tr>
<th><em>Incidental Fee (to all)</em></th>
<th><em>Tuition to non-residents</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>For 1 or 2 hours weekly per semester</td>
<td>$3.00</td>
</tr>
<tr>
<td>For 3 hours per semester</td>
<td>4.00</td>
</tr>
<tr>
<td>For 4 hours per semester</td>
<td>5.00</td>
</tr>
<tr>
<td>For 5 hours per semester</td>
<td>6.00</td>
</tr>
<tr>
<td>For 6 hours per semester</td>
<td>7.00</td>
</tr>
</tbody>
</table>

*Late Registration Fee*

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

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

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

No tuition nor incidental fees are refunded. In case of absence on account of protracted sickness a proportionate credit may be given on a subsequent course.

All fees are payable before entering classes.

All inquiries should be addressed to Prof. S. J. Lockner, Chairman of Committee on Evening Courses.

COURSES FOR 1917-1918

CLASS A COURSES

ROMANCE LANGUAGES

French

PROFESSOR RINES

1701. First Year French.—(First Semester.)
Grammar, reading, simple conversation. Monday, 6:45-8:45. (Two credit hours.)

1702. First Year French.—(Second Semester.)
This course is a continuation of the first semester's work and will consist mainly of selected readings, dictation, memorizing and conversation. Monday, 6:45-8:45. (Two credit hours.)

1703. Second Year French.—(First Semester.)
Open only to those who have had First Year French here or elsewhere. Grammar and composition work continued, with reading of modern works. Wednesday, 6:45-8:45. (Two credit hours.)

1704. Second Year French.—(Second Semester.)
Continuation of the work of the first semester. Wednesday, 6:45-8:45. (Two credit hours.)
EVENING CLASSES

Spanish

MR. MORIN

1705. First Year Spanish.—(First Semester.)
Grammar, reading, simple conversation. Monday, 6:45-8:45. (Two credit hours.)

1706. First Year Spanish.—(Second Semester.)
This course is a continuation of the first semester's work and will consist mainly of selected readings, dictation, memorizing and conversation. Monday, 6:45-8:45. (Two credit hours.)

1707. Second Year Spanish.—(First Semester.)
Open only to those who have had First Year Spanish or its equivalent. Grammar and composition work continued. Selected texts for reading. Special emphasis will be placed upon the commercial side of the language. Wednesday, 6:45-8:45. (Two credit hours.)

1708. Second Year Spanish.—(Second Semester.)
Continuation of the work of the first semester. Conversation, dictation, anecdotes, Spanish daily life, commercial Spanish and correspondence. Wednesday, 6:45-8:45. (Two credit hours.)

GERMAN

MR. VON JANINSKI

1709. First Year German.—(First Semester.)
Grammar, reading, simple conversation. Monday, 6:45-8:45. (Two credit hours.)

1710. First Year German.—(Second Semester.)
This course is a continuation of the first semester's work and will consist mainly of selected readings, dictation, memorizing, and conversation. Monday, 6:45-8:45. (Two credit hours.)
ENGLISH

1711. *Parliamentary Law.*—(*First Semester.)*

The class is organized as an Assembly with the instructor as chairman. Study and practice of rules of order; the writing of minutes. Text-book: Cushing's Manual of Parliamentary Practice (Revised edition). Tuesday, 6:45-8:45. (Two credit hours.) Assistant-Professor Sturtevant.

1712. *Business English.*—(*Second Semester.)*

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

**EXPRESSION**

Miss McEabright

1714. *Public Speaking and Dramatic Work.*—(*Second Semester.)*

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

**PSYCHOLOGY AND ECONOMICS**

Professor O. E. Olin

1715. *Psychology.*—(*First Semester.)*

A study and lecture course including:

1. The outline of elementary psychology.
2. Relation of psychology to the problems of industrial and professional life.

3. Numerous experiments illustrative of physical and mental tests.

Thursday, 6:45-8:45. (Two credit hours.)

1716. Municipal Organization and Management.—(Second Semester.)

A lecture and research course including history and development of cities—importance to social and political life, forms of government, methods of administration, problems—political, social, financial, industrial, sanitary, esthetic, etc. Open to those who have had some course in civics. Thursday, 6:45-8:45. (Two credit hours.)

* In connection with this course Mr. Olson of the Municipal Research Bureau will give five lectures on Municipal Affairs. These lectures are open to the public without fee or necessity of registration in course. For details of time and subjects see announcement under Class B courses, page 145.

BUSINESS LAW AND ADMINISTRATION

ASSISTANT-PROFESSOR BENNETT

1717. Business Law.—(First Semester.)

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

* 1718. Business Administration.—(Second Semester.)

This course includes elementary accounting, cost-keeping, auditing, money, credit and banking investments. Thursday, 6:45-8:45. (Two credit hours.)
GREEK LITERATURE

PROFESSOR ROCKWELL

1719. Greek Masterpieces thru English Translations.— (First Semester.)

This course will comprise a careful study of the chief works in lyric and epic poetry, the drama, history and philosophy. Supplementary reading of the History of Greek Literature and of certain authors will be required. Written tests will be given. Wright’s Masterpieces of Greek Literature will be used as a text. Knowledge of the Greek language is not necessary. Wednesday, 6:45-8:45. (Two credit hours.)

HISTORY

PROFESSOR THOMPSON

1721. English History.—(First Semester.)

English History from the seventeenth century showing the development of the Empire and its colonial and industrial and commercial problems. Wednesday, 6:45-8:45. (Two credit hours.)

CHEMISTRY

PROFESSOR SIMMONS

1723-24. General Inorganic Chemistry.—(Both Semesters.)

A study of General Chemistry for those who are beginning or those who may have had a year of Chemistry in High School. Tuesday and Thursday, 6:45-8:45. (Three credit hours each semester.)

1725-26. Qualitative Analysis.—(Both Semesters.)

For those who have completed Courses 1723-24 or the equivalent. Tuesday and Thursday, 6:45-8:45. (Two credit hours each semester.)

For those who have completed Courses 1725-26 or the equivalent. Tuesday and Thursday, 6:45-8:45. (Two credit hours each semester.

**HYGIENE**

PROFESSOR PLOWMAN

1729. *Hygiene for Women.*—*First Semester.*

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


The course for the first semester is open only to women. Monday, 6:45-8:45. (Two credit hours.)

1730. *Hygiene for Men.*—*Second Semester.*

This course is of the same general nature as the preceding course, except that it is open only to men.

Monday, 6:45-8:45. (Two credit hours.)

**MATHEMATICS AND ENGINEERING**

1731. *College Algebra.*—*First Semester.*

The work will begin with the theory of quadratic equations and will include some of the more important principles
of college algebra. Prerequisite: high school algebra. Wednesday, 6:45-8:45. (Two credit hours.) MR. MORRIS.

1732. Plane Trigonometry.—(Second Semester.)

The work includes goniometry, trigonometric functions of an angle in any quadrant, solution of plane and oblique triangles, trigonometric equations. Wednesday, 6:45-8:45. (Two credit hours.) MR. ADAMS.

1733. Gas Engines.—(First Semester.)

A detailed study of the essential parts of oil, gas and gasoline engines, their efficiency and applications. Especial attention will be given to the various types of auto-engines. Monday, 6:45-8:45. (Two credit hours.) MR. MATHEWSON.

HOME ECONOMICS

PROFESSOR STIMMEL

1735. A Household Science Course.—(First Semester.)

(a) A study of the house as to architecture, sanitation, decoration, and household management.

(b) A study of foods; the selection, problems in the preparation, and economic uses of food.

(c) A study of clothing from the hygienic and economic standpoints.

Monday, 6:45-8:45. (Two credit hours.)

CLASS B COURSES

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

FIRST SEMESTER

LECTURE GROUP I

Tuesday, 7:45-8:45.

(This group of fifteen lectures is reckoned as one term-
hour, and no reduction of fee is made to those electing less than the entire number.)

General Astronomy. (Illustrated.)
1. Astronomical instruments, September 25.
2. The motions of the earth, October 2.
3. The solar system, October 9.
4. The sun, October 16.
5. Nebular and star clusters, October 23.

PROFESSOR LOCKNER

Greek Sculpture. (Illustrated.)
6. Archaic Period, October 30.
8. Great Period (first half), November 13.
9. Great Period (second half), November 20.
10. Hellenistic Period, November 27.

PROFESSOR ROCKWELL

German Literature.
11. The earliest German literature, December 4.
12. The heroic epic and Richard Wagner, Dec. 11.
15. Heine, January 22.

DR. KOLBE

COMMUNITY ORGANIZATION AND DEVELOPMENT.
Monday 7:45-8:45.

This course is offered by the University in co-operation with the following Advisory Committee, representing the social workers of the city: Mr. W. S. Bixby, Director of Charities; Mr. O. E. Olin, Professor of Social Sciences, University of Akron; Mr. C. S. Weaver, General Secretary Akron Y. M. C. A.; Mr. F. L. Olson, Director Bureau of Municipal Research; Dr. J. J. McShane, Commissioner of Health; Miss O. E. Beason, Supervising Nurse, Department
of Public Health; Miss Marie Lawson, Superintendent Akron City Hospital; Miss E. Donenwirth, Superintendent People's Hospital; Mr. R. N. Neustadt, The B. F. Goodrich Company, Chairman.

The lectures will be delivered partly by local workers who are familiar with Akron's social problems, and partly by eminent authorities from other cities. A complete list of the lecturers will be published later. The subjects are:

1. Introduction to sociological study, September 24, 1917.
2. Introduction to sociological study (continued) Oct. 1.
3. Causes of social maladjustment, October 8.
4. Social conditions, October 15.
5. Industrial conditions, October 22.
6. Industrial conditions (continued), October 29.
7. Industrial conditions (continued), November 5.
8. Social efforts for readjustment, November 12.
9. The technique of social effort, November 19.
10. The technique of social effort (continued), Nov. 26.
11. The larger conception of public health, December 3.
12. The function of the public health nurse, December 10.
16. Subject to be chosen, January 28.

(A fee of $1.00 for the entire course will be charged for the purpose of enabling the committee to cover necessary expenses of lecturers from other cities.)

SECOND SEMESTER

THE BIBLE AS LITERATURE.
Tuesday, 7:45-8:45.
DEAN SPANTON

Masterpieces of Old Testament Story.
1. Stories before Joseph, February 12, 1918
2. The Joseph Stories, February 19.
4. Stories of David, March 5.
5. Ruth and Esther, March 12.

The Poetry of the Old Testament.
7. The Psalms as Poetry (continued), April 2.
8. The Book of Job as Poetry, April 9.
10. Solomon's Song, April 23.

The Wit and Wisdom of the Old Testament.
15. Summary: The Bible as Literature, May 28.

MUNICIPAL ADMINISTRATION

MR. F. L. OLSON
Akron Bureau of Municipal Research
Thursday, 7:45.

1. Present forms of administration in city government, March 7, 1918.
3. Budgets and budget making, April 11.
4. Accounting and reporting, April 18.
5. Municipal taxation, April 25.

(These lectures are given in connection with course 1716 on Municipal Organization and Management. However, an invitation is extended to all interested citizens to attend Mr. Olson's lectures without charge and without necessity of registration in the regular course.)
Night school students desiring to take gymnasium work one night a week may do so by conferring with the Physical Director.

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

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

No credit will be given.
### Evening Classes

#### Schedule of Classes

1917—1918

**First Semester**

<table>
<thead>
<tr>
<th>Day</th>
<th>Hours</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year French 1701</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year Spanish 1705</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year German 1709</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>Hygiene for Women 1729</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>Gas Engines 1733</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>Home Economics 1735</td>
</tr>
<tr>
<td>Monday</td>
<td>7:45-8:45</td>
<td>Municipal Organization and Development (lectures)</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Parliamentary Law 1711</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>General Inorganic Chemistry 1723</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Qualitative Analysis 1725</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Quantitative Analysis 1727</td>
</tr>
<tr>
<td>Tuesday</td>
<td>7:45-8:45</td>
<td>Group I Lectures on Astronomy, Greek Sculpture and German Literature</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Second Year French 1703</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Second Year Spanish 1707</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Greek Masterpieces in English Translation 1719</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>English History 1721</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>College Algebra 1731</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Psychology 1715</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>General Inorganic Chemistry 1723</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Qualitative Analysis 1725</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Quantitative Analysis 1727</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Business Law 1717</td>
</tr>
</tbody>
</table>
## SCHEDULE OF CLASSES

1917—1918

**Second Semester**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year French 1702</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year Spanish 1706</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>First Year German 1710</td>
</tr>
<tr>
<td>Monday</td>
<td>6:45-8:45</td>
<td>Hygiene for men 1730</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Business English 1712</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>General Inorganic Chemistry 1724</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Qualitative Analysis 1726</td>
</tr>
<tr>
<td>Tuesday</td>
<td>6:45-8:45</td>
<td>Quantitative Analysis 1728</td>
</tr>
<tr>
<td>Tuesday</td>
<td>7:45-8:45</td>
<td>The Bible as Literature (lectures)</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Second Year French 1704</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Second Year Spanish 1708</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Expression 1714</td>
</tr>
<tr>
<td>Wednesday</td>
<td>6:45-8:45</td>
<td>Trigonometry 1732</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>General Inorganic Chemistry 1724</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Qualitative Analysis 1726</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Quantitative Analysis 1728</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Municipal Organization and Management 1716</td>
</tr>
<tr>
<td>Thursday</td>
<td>7:45-8:45</td>
<td>Municipal Affairs (lectures by Mr. Olson)</td>
</tr>
<tr>
<td>Thursday</td>
<td>6:45-8:45</td>
<td>Business Administration 1718</td>
</tr>
</tbody>
</table>
THE UNIVERSITY LECTURES

1916-1917

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

For the season 1916-17, a course of five lectures has been arranged. These lectures will be given under certain conditions to any society organization or body of citizens who may desire to hear them. The conditions are as follows:

1.—Any responsible organization which will guarantee an audience of not less than fifty persons may receive these lectures free of charge at dates to be mutually agreed upon with the Chairman of the Lecture Committee.

2.—The course is given only in its entirety i. e., single lectures may, under ordinary conditions, not be selected.

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

1. What is a Practical Education?
   Dean A. I. Spanton

2. What the Chemist of the Future May Do
   Professor H. E. Simmons

3. Paris Before the War (Illustrated)
   Professor M. A. Rines

4. Up from the Depths
   Professor A. B. Plowman

5. Germans in Ohio in Pioneer Days
   Professor C. L. Bulger

SCIENTIFIC LECTURES

The University desires also to co-operate with any company or society of citizens who are interested in technical subjects, and so offers the following single lectures, which may be chosen as desired. An attendance of fifty is not required for these single lectures.

INFLUENCE OF IRRIGATION UPON THE DEVELOPMENT OF THE WEST
   Dean F. E. Ayer

Modern Astronomy (Illustrated)
   Professor S. J. Lockner

Early Christian Architecture
   Mr. Julius Boenisch

American Chemical Industries
   Assistant-Professor W. F. Zimmerli

Problems in Greek Architecture
   Professor J. C. Rockwell

Materials of Construction
   Mr. A. E. Hardgrove
   Director Bureau of City Tests

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

1. AT THE UNIVERSITY OF AKRON

The Arts-Home Economics Combination Course

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

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

2. WITH THE OHIO STATE UNIVERSITY

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

The following combinations have been arranged:

**THE ARTS-LAW COMBINATION COURSE**

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

**Requirements in Buchtel College of Liberal Arts**

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

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

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

4. All of the major and minor requirements in the course chosen must be completed at the University of Akron.
5. The Faculty of Buchtel College reserve the right to refuse to recommend for the combined course any candidate who has, in their opinion, not maintained a standard of good scholarship.

THE ARTS-AGRICULTURE COMBINATION COURSE

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

General Requirements in Buchtel College of Liberal Arts

1. No student is eligible for the Combined Arts-Agriculture Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours credit in Buchtel College.

2. No student shall be eligible for a degree from Buchtel College of the University of Akron in the combined Arts-Agriculture course who has not received sufficient credit at the Ohio State University to complete a total of 188 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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 51</td>
<td>English 52</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mod. Lang.</td>
<td>Mod. Lang.</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Chem. 351 or 353</td>
<td>Chem. 353 or 354</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Hygiene</td>
<td>Current Events</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 301</td>
<td>Mathematics 302</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>
COMBINATION COURSES

Second Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 53</td>
<td>English 54</td>
</tr>
<tr>
<td>Biology 401</td>
<td>Biology 402</td>
</tr>
<tr>
<td>Mod. Lang.</td>
<td>Mod. Lang.</td>
</tr>
<tr>
<td>History 275 or 277</td>
<td>History 276 or 278</td>
</tr>
<tr>
<td>Chem. 365</td>
<td>Chem. 366</td>
</tr>
</tbody>
</table>

15 or 16

Third Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polit. Economy 251</td>
<td>Sociology 252</td>
</tr>
<tr>
<td>Physics 341</td>
<td>Physics 342</td>
</tr>
<tr>
<td>Vascular Plants 405</td>
<td>Embryology 404</td>
</tr>
<tr>
<td>Geology 323</td>
<td>Astronomy 320</td>
</tr>
</tbody>
</table>

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
Agricultural Engin. } .... 4
Farm Crops 

Choice of any two of these

the fourth year. The remain-

ing 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.
3. WITH WESTERN RESERVE MEDICAL SCHOOL*

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

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

**General Requirements in Buchtel College of Liberal Arts**

1. No student is eligible for the Combined Arts-Medicine Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours credit in Buchtel College.

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

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

**Subject Requirements in Buchtel College of Liberal Arts**

1. A major must be chosen in Buchtel College leading to the degree of Bachelor of Science.

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

*This course is here detailed as typical of a combination possible with the large majority of medical schools.*
(The following are requirements of subjects to be taken at Buchtel necessary for entrance to the Medical School.)

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

(B) Physics: The equivalent of at least one year of collegiate work of a value of not less than 8 term hours, of which at least 2 term hours shall be laboratory, and the total instruction shall be not less than 192 hours. The fact that high school physics is presented will in no way diminish the requirement of collegiate physics.

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

(D) German or French: A total of not less than 8 term hours, all in one of these subjects. One unit of high school work may be counted as 3 term hours of this requirement, but at least 6 term hours shall be collegiate work.

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

First Year: Regular Freshman Scientific Course.

Second Year: Zoology and Botany, 8 hours, Physics with Lab., 12 hours, German or French sufficient to make with freshman work a total of at least 8 term hours.

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

With Medical Schools

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

With Other Professional and with Technical Schools

The University of Akron is willing to give the opportunity for combination courses with any approved technical or professional school making graduation from a first-grade High School a prerequisite for entrance (except medical schools, see above). The approval of such courses rests with the committee on classification. In making such combinations, the University of Akron will insist on the fulfillment of the general requirements of three years' residence at Akron, the completion of 96 term hours there and of a total of 128 term hours for graduation—also of the completion of all required majors and minors.

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

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

FOUR YEAR COMBINATION COURSE

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

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

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

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

FIVE YEAR COMBINATION COURSE

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

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

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

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

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

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

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

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

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

DIVISIONS OF CO-OPERATIVE WORK

The work properly falls under two heads.

I. Special organizations or Bureaus.

II. Co-operative work by various departments of the University.

1. 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. The Bureau of City Tests was created and took charge of this work January 1, 1914. All analytical and diagnostic work of the city was done by the Bureau until November, 1916, when a diagnostic bacteriological labora-
tory was created at the Board of Health office, and assumed this work. The Bureau continues to do bacteriological milk and water analysis, and all other physical and chemical tests for the various city departments, together with brick testing for Summit County. The Director also offers a course in bacteriology in the School of Home Economics.

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

The Bureau of City Tests during the first eleven months of 1916, has rendered the following services to the City of Akron:

- made 3,013 bacteriological examinations for diphtheria.
- made 151 bacteriological examinations for tuberculosis.
- made 12 bacteriological examinations for typhoid.
- made 9 miscellaneous bacteriological examinations.
- made 268 spring and well water examinations, condemning 130 supplies.
- made 239 examinations of industrial supplies.
- made 250 examinations of the city water supply.
- made 26 examinations of milk and cream, condemning 8 samples.
- made 17 examinations for suspected poisoning from an apple, candy, shoes, varnish remover, tablets, and foods.
- made 20 food examinations.
- made 35 urine examinations.
- made 15 examinations of liquors for alcohol.
- made 3 examinations to determine character of insects and skeletons.
- made 5 examinations for raw sewage in waters and soils.
- made 49 brick tests, condemning 8 samples.
- made 7 cement tests, condemning 2 samples.
- made 7 sand and gravel tests, condemning 3 samples.
- made 3 examinations of miscellaneous construction materials.
—assisted the Y. M. C. A. in the installation of a swimming pool refiltration and sterilization system.
—assisted Purchasing Department in the purchasing of supplies.
—furnished professional advice to different city departments on miscellaneous questions.

II. CO-OPERATIVE WORK BY DEPARTMENTS OF THE UNIVERSITY

The following list covers activities of the past three years:

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

School of Home Economics
Class work conducted by students at Y. W. C. A.

Department of Physical Education
Summer playground work by Director and students.

Department of English
Field work in journalism on local newspapers.

College of Engineering
Students work alternate two week periods in foundries, machine shops, and на construction and railroad work. Co-operative students in business training alternate in offices of large manufacturing plants. Students in civil engineering assigned to municipal work under direction of city engineer. Report on Akron pavements prepared and published at request of city council (Akron Pavements, 74 pp. Fred E. Ayer, Dean of the College of Engineering).

Extension Work
Evening classes in following subjects (for 1916-17): French, Spanish, German, Business English, English
Literature, Public Speaking, Economics, Business Law, Accounting, Business Administration, European History, Biology, Chemistry, Mathematics (for details see page 134).

University Lecture Course presented to various clubs and organizations of the city by faculty members; also several lectures on technical subjects (see page 149).

Co-operation with the Board of Education
A combination course for the purpose of training teachers has been arranged by agreement between the Board of Education and the Directors of the University. (For details see page 158.)
## REGISTER

### REGISTER OF STUDENTS

**BUCHTEL COLLEGE**

1916-1917

**SENIOR CLASS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azar, Robert Isaiah</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Carlton, Clinton Arbie</td>
<td>S</td>
<td>Medina</td>
</tr>
<tr>
<td>Chain, Faye Thompson</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Cushman, Josephine</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Darrah, David Harley</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Driesbach, Charles Oliver</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Frederick, Inez</td>
<td>P</td>
<td>Copley</td>
</tr>
<tr>
<td>Freed, Arthur</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Gable, Norris</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Geisinger, Elliott</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Hardie, Julia</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Hugi, William Edgar</td>
<td>P</td>
<td>Clarington</td>
</tr>
<tr>
<td>Kasch, Richard</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Kittelberger, Fred</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Knolton, John</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Mertz, Ray</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Olin, Esther Ellene</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Pfahl, Helen</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Poules, Ira</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Quinlan, Dorothy Ann</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Richardson, Marion</td>
<td>P</td>
<td>Cuyahoga Falls</td>
</tr>
<tr>
<td>Roth, Samuel</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Sammarone, Salvan</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Santom, Baldwin</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Schaeffer, Carl Howard</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Shea, Joseph Bernard</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Simms, Hazel P.</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Squibbs, Hubert</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Stanford, Percy</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Thornton, Dwight G</td>
<td>P</td>
<td>Akron</td>
</tr>
</tbody>
</table>

**SENIORS IN ABSENTIA**

Brown, Donald—Combined Arts-Law Course with Ohio State University .......... Akron

Total Seniors—31

**JUNIOR CLASS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Babcock, Mabel</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Darrah, Kenneth</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Durling, George K</td>
<td>S</td>
<td>Wadsworth</td>
</tr>
<tr>
<td>Ellsworth, Lloyd</td>
<td>P</td>
<td>Hudson</td>
</tr>
<tr>
<td>Name</td>
<td>Class</td>
<td>City</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>---------------</td>
</tr>
<tr>
<td>Fosnight, Reed</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Gillen, Francis</td>
<td>C</td>
<td>Akron</td>
</tr>
<tr>
<td>Grafton, John E.</td>
<td>S</td>
<td>Barberton</td>
</tr>
<tr>
<td>Green, Leonard</td>
<td>P</td>
<td>Kent</td>
</tr>
<tr>
<td>Kendall, Victor</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Lidyard, Dewey</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>McDoo, Bruce</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Manthey, Edwin</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Means, Martha</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Nall, Anna</td>
<td>P</td>
<td>Cuyahoga Falls</td>
</tr>
<tr>
<td>Olin, Lucretia</td>
<td>P</td>
<td>Wadsworth</td>
</tr>
<tr>
<td>Place, Marguerite</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Rogers, Virgil</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Rowe, Robert</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Schmidt, Martin</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Smith, Cyril</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Snyder, Marion</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Swinehart, Clyde L.</td>
<td>S</td>
<td>East Akron</td>
</tr>
<tr>
<td>Tibbitts, Dorothy</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Tomkinson, LeRoy</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Wolcott, Mary</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Work, Ray</td>
<td>S</td>
<td></td>
</tr>
</tbody>
</table>

**SOPHOMORE CLASS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Class</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arnold, Wendell</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Babutza, Theodore</td>
<td>C</td>
<td>Indianapolis, Ind.</td>
</tr>
<tr>
<td>Bierce, Bruce</td>
<td>S</td>
<td>Cuyahoga Falls</td>
</tr>
<tr>
<td>Billow, Paul E.</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Botsford, Lawrence</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Bowman, Sara</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Cable, John E.</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Cahill, Carl J.</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Camp, Ferdinand W.</td>
<td>S</td>
<td>Kenmore</td>
</tr>
<tr>
<td>Carroll, Marie</td>
<td>C</td>
<td>Akron</td>
</tr>
<tr>
<td>Christy, Robert</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Fish, Albert S.</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Fogle, Karl B.</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Gilbert, Carl S.</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Graham, Katherine</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Gudikunst, Earl</td>
<td>C</td>
<td>Akron</td>
</tr>
<tr>
<td>Haley, Arthur</td>
<td>S</td>
<td>Cuyahoga Falls</td>
</tr>
<tr>
<td>Harris, Guy</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Henegan, Olive A.</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Hollingsworth, Edith</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Holloway, Harold S.</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Hottenstein, Howard</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Hunsicker, Oscar</td>
<td>S</td>
<td>Akron</td>
</tr>
<tr>
<td>Kohn, Lesga</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Kremer, Ward Claire</td>
<td>P</td>
<td>Wadsworth</td>
</tr>
<tr>
<td>Linney, Norma</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Long, Gladys</td>
<td>P</td>
<td>Akron</td>
</tr>
<tr>
<td>Marvin, Eleanor</td>
<td>P</td>
<td>Ravenna</td>
</tr>
<tr>
<td>Minnick, George</td>
<td>S</td>
<td>Akron</td>
</tr>
</tbody>
</table>
### REGISTER

- Motz, Clarence E. .......... P .......... Cuyahoga Falls
- Myers, Howard E. .......... S .......... Akron
- Neufeld, Leo .......... P .......... Akron
- Palmer, Roland .......... S .......... Akron
- Pfahl, Charles Alton .......... S .......... Akron
- Pokras, Samuel .......... S .......... Akron
- Purdy, Walter .......... S .......... Akron
- Rood, Miriam .......... P .......... Akron
- Rowley, Pauline .......... P .......... Akron
- Ruttman, Carl .......... S .......... Akron
- Shaffer, Carl .......... P .......... Akron
- Snider, George E. .......... P .......... Akron
- Sorge, Walter .......... S .......... Massillon
- Spicer, Ralph .......... S .......... Akron
- Swisher, Grant .......... S .......... Akron
- Taylor, Louise .......... S .......... Akron
- Thomas, Burchard .......... P .......... Akron
- Todd, J. Alexander .......... S .......... Akron
- Van der Graaf, Josephine .......... P .......... Akron
- Viering, Lawrence .......... P .......... Akron
- Wendt, Aubrey .......... S .......... Coshocton
- Werner, Herman .......... S .......... Akron
- Whigham, Frances .......... S .......... Akron
- Wilhelm, Seymour .......... S .......... Akron
- Wortman, Eldred G. .......... S .......... Akron

**Sophomores—56**

### FRESHMAN CLASS

- Alvis, Harold A. .......... S .......... Akron
- Andreas, Anna .......... C .......... Akron
- Babcock, George .......... C .......... Ravenna
- Billow, Ruth .......... C .......... Akron
- Bonstedt, Katharine .......... C .......... Akron
- Botzum, John Frederick .......... S .......... Akron
- Browning, Rufus .......... S .......... Akron
- Bruner, Byron .......... S .......... Akron
- Burt, Harriet .......... C .......... Akron
- Butler, Whitney E. .......... S .......... East Akron
- Calvin, Ruth .......... C .......... Akron
- Clark, LaVerne .......... S .......... Akron
- Clouser, Howard .......... S .......... Akron
- Cooper, Leslie .......... S .......... Akron
- Cramer, Ruth .......... C .......... Akron
- Crapper, Arthur .......... S .......... Akron
- Davis, Aubrey .......... S .......... Akron
- Dunford, Emerson .......... S .......... Akron
- Emmons, Claude .......... S .......... Akron
- Fetzer, Herman .......... S .......... Akron
- Fowler, Harold .......... S .......... Cuyahoga Falls
- Fox, Rolland .......... S .......... Akron
- Franch, Edgar .......... S .......... Cleveland
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geer, Gerald</td>
<td>Akron</td>
</tr>
<tr>
<td>Gelsanliter, Charles</td>
<td>Akron</td>
</tr>
<tr>
<td>Griffith, Jack</td>
<td>Akron</td>
</tr>
<tr>
<td>Haas, Eugene</td>
<td>Akron</td>
</tr>
<tr>
<td>Hawk, Ethel</td>
<td>Akron</td>
</tr>
<tr>
<td>Hoover, Clark</td>
<td>Akron</td>
</tr>
<tr>
<td>Hudson, Vyla</td>
<td>Akron</td>
</tr>
<tr>
<td>Holmwood, Walter</td>
<td>Akron</td>
</tr>
<tr>
<td>Knowlton, Arthur</td>
<td>Akron</td>
</tr>
<tr>
<td>Makman, Saul</td>
<td>Akron</td>
</tr>
<tr>
<td>Martens, Cecile</td>
<td>Akron</td>
</tr>
<tr>
<td>Meech, Forest</td>
<td>Akron</td>
</tr>
<tr>
<td>Michel, Robert</td>
<td>Akron</td>
</tr>
<tr>
<td>Miller, Rhea</td>
<td>Akron</td>
</tr>
<tr>
<td>Miller, William G</td>
<td>Moatsville, Va.</td>
</tr>
<tr>
<td>Mull, Julia A</td>
<td>Akron</td>
</tr>
<tr>
<td>Myers, LeRoy</td>
<td>Akron</td>
</tr>
<tr>
<td>McConkey, Wanda</td>
<td>Akron</td>
</tr>
<tr>
<td>McCormick, Edward</td>
<td>Akron</td>
</tr>
<tr>
<td>McIlvain, Mary A</td>
<td>Akron</td>
</tr>
<tr>
<td>Otis, Edward</td>
<td>Akron</td>
</tr>
<tr>
<td>Palmer, Frances E</td>
<td>Akron</td>
</tr>
<tr>
<td>Pearsall, William C</td>
<td>Akron</td>
</tr>
<tr>
<td>Pettigrew, Russell</td>
<td>Akron</td>
</tr>
<tr>
<td>Pfahl, Wilbert C</td>
<td>Akron</td>
</tr>
<tr>
<td>Phillips, Lyle E</td>
<td>Vincennes, Ind.</td>
</tr>
<tr>
<td>Price, Wilbur</td>
<td>Akron</td>
</tr>
<tr>
<td>Reynolds, Chester</td>
<td>Leroy</td>
</tr>
<tr>
<td>Rose, Myrtle</td>
<td>Akron</td>
</tr>
<tr>
<td>Ross, Donald</td>
<td>Akron</td>
</tr>
<tr>
<td>Rundell, J. Rupert</td>
<td>Adams, Mass.</td>
</tr>
<tr>
<td>Sauvain, George</td>
<td>Akron</td>
</tr>
<tr>
<td>Stockdale, Raymond</td>
<td>Akron</td>
</tr>
<tr>
<td>Swigart, Clarence</td>
<td>Akron</td>
</tr>
<tr>
<td>Toon, Lawrence</td>
<td>Akron</td>
</tr>
<tr>
<td>Turner, Roberta</td>
<td>Akron</td>
</tr>
<tr>
<td>Urpman, Nina</td>
<td>Akron</td>
</tr>
<tr>
<td>Vaughan, Wilola</td>
<td>Akron</td>
</tr>
<tr>
<td>Waldkirch, Earl</td>
<td>Akron</td>
</tr>
<tr>
<td>Waltz, Leland</td>
<td>Akron</td>
</tr>
<tr>
<td>Walker, Waldo</td>
<td>Akron</td>
</tr>
<tr>
<td>Whalen, Charles F</td>
<td>Akron</td>
</tr>
<tr>
<td>Wiener, Blanche</td>
<td>Akron</td>
</tr>
<tr>
<td>Wilcox, Elizabeth</td>
<td>Akron</td>
</tr>
<tr>
<td>Wilkinson, George</td>
<td>Peninsula</td>
</tr>
<tr>
<td>Williams, Raymond</td>
<td>Akron</td>
</tr>
<tr>
<td>Williams, Joe Martin</td>
<td>Akron</td>
</tr>
<tr>
<td>Wilson, Harold</td>
<td>Akron</td>
</tr>
<tr>
<td>Wortmann, Ruth</td>
<td>Akron</td>
</tr>
<tr>
<td>Young, Henry</td>
<td>Akron</td>
</tr>
</tbody>
</table>
**SPECIAL STUDENTS**

Alpern, Lewis ..................................... Pittsburgh
Ball, Emily ........................................ Akron
Boyd, Marie ........................................ Akron
Conger, Helen ..................................... Akron
Fox, Errol L ....................................... Akron
Fry, Ida G .......................................... Akron
Greedy, L. A ........................................ Akron
Hanson, A. S ....................................... Akron
Henderson, John .................................... Akron
Hiedell, Alva ...................................... Mansfield
Jones, Carl H ...................................... Iowa City, Ia.
Johnson, L. B ...................................... Akron
Langer, Harriet ..................................... Akron
Lawrence, Frank E ................................ Tallmadge
Lawrence, Mrs. J. C ................................ Akron
Morris, Roy C ....................................... Cadiz
Mytroje, John M .................................... Akron
Root, Arthur T ..................................... Akron
Schubert, Minerva .................................. Akron
Schwom, George .................................... Akron
Tanner, Marjorie ................................... Akron
Tanner, Florence P ................................ Akron
Thomas, Mary ....................................... Akron
Vladeff, Peter ...................................... Wooster

**COLLEGE OF ENGINEERING**

**PRE-JUNIOR CLASS**

Boecker, Theodore J ................................ Akron
Boedicker, Earl ..................................... Akron
Cady, Emerson E .................................... Akron
Converse, Lucius ................................... Mantua
Gulick, Esri ......................................... Akron
Joel, Floyd E ....................................... Akron
Judy, Lowell ................................-------- Kent
Kennedy, John ...................................... Akron
Lichter, Jacob ...................................... Akron
Mitchell, Ernest .................................... Akron
Moore, Harold ...................................... Akron
Purdy, Harold ....................................... Akron
Wybel, Howard ...................................... Akron

Pre-Juniors—13
REGISTER

SOPHOMORE CLASS

Bordner, Robert ..................................... Akron
Breen, Leo ........................................... Akron
Donaldson, Glenn S. ................................ Cuyahoga Falls
Hoskin, Minard ...................................... Akron
Kutzmaul, Corliss ................................. Akron
Miller, John ........................................ Akron
Pollock, Lloyd C. ................................... Akron
Siedschlag, Karl .................................... Akron
Thierry, James ..................................... Akron
Vogt, Walter ...................................... Akron

SOPHOMORES—10

FRESHMAN CLASS

Avery, Bryan ....................................... Bedford
Braucher, Fred Jay ................................... Akron
Carlin, Charles ..................................... Kent
Close, Stanford D. ................................ Akron
Dieterich, Harold ................................ Tallmadge
Durling, Wm. Jacob ............................... Wadsworth
Fletcher, Robert Floyd ............................ Ravenna
Frank, Paul A. ..................................... Akron
Halter, Herbert B. ................................ Akron
Hardy, F. Lance .................................... Kent
Heminger, Harold Remson ........................ Akron
Lelansky, Ross ..................................... Akron
Long, Harry K. ..................................... Seville, Ohio
McEwen, Willard ................................... Creston
Morgan, Ray V. ..................................... Akron
O'Brien, Robert T. ................................ Akron
Robinson, Alfred Bryan ............................ Akron
Robinson, Chester F. .............................. Akron
Stevens, George Edison .......................... Akron
Tench, Ambrose .................................... Akron
Warrick, Noel W. .................................. Akron
Welker, B. Thomas ................................ Akron

FRESHMEN—22

SPECIAL STUDENTS
(Not candidates for degree)

Wilgus, Ward ................................ Akron

SPECIAL STUDENTS—2

BUSINESS TRAINING

FRESHMAN CLASS

Dugan, Martin E. ................................... Akron
Fisher, Wm. A. ..................................... Akron
Leonard, J. Russell ...................................... Akron
Schwartz, Sidney H ................................... Akron
Spalding, Fred ......................................... Akron
Stump, Walter Huber ................................... Akron

Freshmen—6

CURTIS SCHOOL OF HOME ECONOMICS

SENIOR CLASS
Burkman, Anne ........................................ Akron
Cleaver, Josephine ..................................... Akron
Fleming, Raphael ...................................... Akron
Mallory, Helen ........................................ Cuyahoga Falls
Tobin, Honora ......................................... Akron

Seniors—5

JUNIOR CLASS
Leland, Florida ........................................ Akron
McConnell, Hazel ...................................... Akron
Putt, Hazel ............................................ Akron

Juniors—3

SOPHOMORE CLASS
Hardie, Helen V ........................................ Akron
Jones, Loretta .......................................... Akron
Kepler, Helen .......................................... Akron
Robinson, Irma V ...................................... Akron
Shaffer, Helen ........................................... Akron
Stevenson, Alta ........................................ Akron
Wolf, Cecilia .......................................... Akron

Sophomores—7

FRESHMAN CLASS
Arnold, Lois ............................................ Akron
Davidson, Ethel ........................................ Akron
Eckroad, Marie ......................................... Akron
Elgin, Carletta B ...................................... Akron
Frampton, Bertha ...................................... Akron
Frick, Iva ............................................... Akron
Garver, Katherine ..................................... Akron
Kepler, Lois ............................................ Akron
Magennis, Mary ........................................ Akron
Magennis, Ruth ........................................ Akron
Marshall, Mildred ..................................... Barberton
Morris, Rose .......................................... Akron
Morris, Mary .......................................... Barberton
Reynolds, Florence ................................... Akron
Schaffner, Dorothy ................................... Akron

Freshmen—16


**SUMMARY OF STUDENTS IN DAY CLASSES**

**BUCHTEL COLLEGE**

<table>
<thead>
<tr>
<th>Class</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Class</td>
<td>23</td>
<td>8</td>
<td>31</td>
</tr>
<tr>
<td>Junior Class</td>
<td>19</td>
<td>7</td>
<td>26</td>
</tr>
<tr>
<td>Sophomore Class</td>
<td>41</td>
<td>15</td>
<td>56</td>
</tr>
<tr>
<td>Freshman Class</td>
<td>54</td>
<td>23</td>
<td>77</td>
</tr>
<tr>
<td>Specials (entrance requirements completed)</td>
<td>6</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Specials (entrance requirements not completed)</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Total Specials</strong></td>
<td></td>
<td></td>
<td>24</td>
</tr>
<tr>
<td><strong>Total Men</strong></td>
<td>148</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Women</strong></td>
<td>66</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Students in Buchtel College</strong></td>
<td>214</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COLLEGE OF ENGINEERING**

<table>
<thead>
<tr>
<th>Class</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Juniors</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophomores</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen (Engineering)</td>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen (Business Training)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specials (not candidates for degree)</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Students in College of Engineering</strong></td>
<td>53</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CURTIS SCHOOL OF HOME ECONOMICS**

<table>
<thead>
<tr>
<th>Class</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seniors</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Juniors</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophomores</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specials (not candidates for degree)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Students in Curtis School</strong></td>
<td>31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EVENING CLASSES

Adam, E. R.
Adam, Riba H.
Alldrich, J. F.
Alexander, C. P.
Alexander, Rosanna B.
Anderson, Besine
Aetson, Louis H.
Arnon, Carl J.
von Arnstein, Stanley
Aston, Edwin H.
Ayew, Besnie B.
Baker, Lush M.
Baldwin, Belle
Ball, Mrs. E. L.
Ball, John M.
Barber, Wm. C.
Barnes, Clifford E.
Barnett, Donald C.
Bart, Nellie
Barth, Jacob
Baudin, Wilfred A.
Bay, J. C.
Beard, Harry V.
Bechtel, Lavi L.
Bebee, Leslie F.
Beighler, Robert H.
Bender, Van Kirk
Benick, Salome
Bennage, Curity
Benett, Mrs. George C.
Bent, Guy L.
Berry, Francis Emmett
Berger, John Ronald
Birge, Ina M.
Billinga, C. F.
Bilbo, Ruth Kathryn
Bixby, W. S.
Bixler, Ira C.
Black, Sterling K.
Bleckner, Lillian Gordon
Blockson, George B.
Bolay, Minnie May
Bollenger, Georgette
Bollinger, Laura
Boswell, Anna Mae
Boushner, C. L.
Bowman, Widdell P.
Boyd, Harry Elmont
Breeze, Marshall H.
Breen, J. Edgar
Brickhouse, Augusta
Broughton, Grace James
Brown, Gertrude
Brown, Mrs. Marion C.
Bufford, Harold Frederick
Burgher, Carl J.
Burkard, Adolph F.
Burkard, Stella Hibbs
Burtt, Guy W.
Capron, Nelle G.
Carin, Lila
Carter, L. C.
Carter, Sidney T.
Carver, Mrs. Mary
Case, Guss Lloyd
Caswell, Earl W.
Chalfant, Anna W.
Chaplin, Mary
Charleston, John T.
Christian, Harold Frank
Clark, J. E. Wealey
Clark, Paul M.
Close, Elbert
Coates, Wm. L.
Cole, Hazel Lane
Coner, Harry Hunt
Conlon, James
Conlon, Oliver Close
Conway, Fred
Copenhaver, Sue E.
Cristin, Frederica
Critchlow, John E.
Croft, Mahlon A.
Cullen, Julien
Daisy, Earl C.
Dambach, Mary E.
Damhn, Ethen
Davis, Earl Lee
Davis, Evan T.
Davis, Claryus A.
Davis, John Chas.
Dean, Anna H.
Dempsey, Esther M.
Derrig, Dorothy
Dewey, Lena
Dieterich, Elmer
Dougherty, Elizabeth
Douglas, Helen A.
Douglas, Rosamond L.
Drake, Allen
Drake, Ernest R.
Drake, Wm. F.
Drake, Wm. V.
Drake, Mark A.
Driesebach, C. C.
Duffy, W. M.
Duffield, Luther Karl
Dunlap, J. Ralph
Durling, Paul
Eaton, Jda Brown
Eberhardt, Mark P.
Ebert, Homer
Elsworth, Ray C.
Ely, Margaret L.
Engler, Nicholas A.
Ernest, Elmer E.
Evans, Dick
Fain, C. Glenn
Falls, Joseph K.
Farver, Erwin
Ferguson, Wellington D.
Felt, Harry T.
Fenster, Hazel
Feney, Pearl Eva
Field, James H.
Filer, Samuel A.
Folts, Adelaine L.
Folk, Geo. K.
France, Weta T.
Franks, Dean H.
Frisz, Elizabeth
Frase, Alice
<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frese, Laurence A.</td>
<td>Frays, Edwin Frederick</td>
</tr>
<tr>
<td>Frickey, Marian D.</td>
<td>Friedman, Fannie</td>
</tr>
<tr>
<td>Friedman, Ike</td>
<td>From, Owen C.</td>
</tr>
<tr>
<td>Fuller, William Arthur</td>
<td>Pullington, Amy C.</td>
</tr>
<tr>
<td>Funk, John A., Jr.</td>
<td>Gable, Nurnis LeRoy</td>
</tr>
<tr>
<td>Gerken, Richard Thomas</td>
<td>Giddens, Myra</td>
</tr>
<tr>
<td>Gilbo, Raymond W.</td>
<td>Glass, C.</td>
</tr>
<tr>
<td>Goodhart, Essie M.</td>
<td>Goodman, Rose Esther</td>
</tr>
<tr>
<td>Goodman, Rose Esther</td>
<td>Goodwin, William George</td>
</tr>
<tr>
<td>Goodys, Louis Abraham</td>
<td>Greene, Andrew T.</td>
</tr>
<tr>
<td>Greenfield, Leo</td>
<td>Grenfell, Catherine</td>
</tr>
<tr>
<td>Grimmer, Berdelle</td>
<td>Guikema, Earl</td>
</tr>
<tr>
<td>Haas, Mrs. Josephine</td>
<td>Hackenberger, Richard Earl</td>
</tr>
<tr>
<td>Haenes, Walter</td>
<td>Hale, Andrew</td>
</tr>
<tr>
<td>Hale, Andrew</td>
<td>Hamilton, Samuel Lawrence</td>
</tr>
<tr>
<td>Hammon, Edwin S.</td>
<td>Hanson, Chester Earl</td>
</tr>
<tr>
<td>Hanson, A. S.</td>
<td>Hardy, Lance</td>
</tr>
<tr>
<td>Harington, Ira W.</td>
<td>Harington, Leonard H.</td>
</tr>
<tr>
<td>Tarlow, Rose</td>
<td>Hartenstrub, Margaret</td>
</tr>
<tr>
<td>Harvey, Harry C.</td>
<td>Hasford, C. Boyd</td>
</tr>
<tr>
<td>Haasen, Eugene H.</td>
<td>Haasenstein, Henry H.</td>
</tr>
<tr>
<td>Hensel, Eva Chloe</td>
<td>Hensel, Minnie V.</td>
</tr>
<tr>
<td>Hensel, Minnie V.</td>
<td>Heman, Freda E.</td>
</tr>
<tr>
<td>Herman, Virna M.</td>
<td>Hickman, Leland M.</td>
</tr>
<tr>
<td>Hicks, Walter S.</td>
<td>Higgins, H. P.</td>
</tr>
<tr>
<td>Hill, Arthur C.</td>
<td>Hillcock, J. E.</td>
</tr>
<tr>
<td>Hillabridge, L. A.</td>
<td>Hilderbrand, Grace</td>
</tr>
<tr>
<td>Hirleman, C. L.</td>
<td>Hoff, Arnold</td>
</tr>
<tr>
<td>Hirleman, Grace</td>
<td>Hoffman, Clyde</td>
</tr>
<tr>
<td>Homan, David G.</td>
<td>Hoover, Raymond C.</td>
</tr>
<tr>
<td>Horstfold, Arthur</td>
<td>Horvath, Samuel</td>
</tr>
<tr>
<td>Honshild, Lee C.</td>
<td>Hugheford, Courtham</td>
</tr>
<tr>
<td>Hunnicke, Oscar</td>
<td>Humley, Vesta A.</td>
</tr>
<tr>
<td>Ingell, Nelson C.</td>
<td>Ingrain, Ronald</td>
</tr>
<tr>
<td>Ingrain, Ronald</td>
<td>Ingenboes, C. M.</td>
</tr>
<tr>
<td>John, R. O.</td>
<td>Johnson, Idaon Bordette</td>
</tr>
<tr>
<td>Johnson, Charles P.</td>
<td>Johnson, Julius</td>
</tr>
<tr>
<td>Johnson, Florence M.</td>
<td>Johnson, Rose J.</td>
</tr>
<tr>
<td>Johnson, Violet</td>
<td>Jones, Hester</td>
</tr>
<tr>
<td>Jones, Ralph S.</td>
<td>Jordan, Ralph S.</td>
</tr>
<tr>
<td>Kader, Minnie Anna</td>
<td>Keane, L. A.</td>
</tr>
<tr>
<td>Kennedy, Happy</td>
<td>Kemmer, E. J.</td>
</tr>
<tr>
<td>Kemmer, Florence</td>
<td>Kennedy, Dorothy</td>
</tr>
<tr>
<td>Kennedy, Dorothy</td>
<td>Kennedy, Ruth E.</td>
</tr>
<tr>
<td>Kerley, J. C.</td>
<td>Kerr, James M.</td>
</tr>
<tr>
<td>Kerr, James M.</td>
<td>Kirs, Russell W.</td>
</tr>
<tr>
<td>Kirtley, Lorin B.</td>
<td>Kissane, Hugh R.</td>
</tr>
<tr>
<td>Kittleberger, Fred W.</td>
<td>Kittredge, John W.</td>
</tr>
<tr>
<td>Kittredge, John W.</td>
<td>Klute, Ralph O.</td>
</tr>
<tr>
<td>Klute, Ralph O.</td>
<td>Knowlton, John</td>
</tr>
<tr>
<td>Kram, John</td>
<td>Krome, Katherine</td>
</tr>
<tr>
<td>Krome, Katherine</td>
<td>La Duc, Willet</td>
</tr>
<tr>
<td>Landis, Ruth</td>
<td>Lapp, Clayton</td>
</tr>
<tr>
<td>Lapp, Clayton</td>
<td>Lassen, John</td>
</tr>
<tr>
<td>Lassen, John</td>
<td>Lawler, Margaret</td>
</tr>
<tr>
<td>Lawler, Ellen</td>
<td>Leach, James</td>
</tr>
<tr>
<td>Leach, James</td>
<td>Lehman, H. Russell</td>
</tr>
<tr>
<td>Lehman, Vio.</td>
<td>Leik, Ralph</td>
</tr>
<tr>
<td>Leik, Ralph</td>
<td>Leoniiser, Wilonie</td>
</tr>
<tr>
<td>Loomis, Ray C.</td>
<td>Long, Harry</td>
</tr>
<tr>
<td>Long, Harry</td>
<td>Lohrbering, A. F.</td>
</tr>
<tr>
<td>McBride, S. E.</td>
<td>Mclennan, Curtis</td>
</tr>
<tr>
<td>Mclennan, Curtis</td>
<td>Mclennan, Robt.</td>
</tr>
<tr>
<td>Mclennan, Robt.</td>
<td>McDonough, Lorette</td>
</tr>
<tr>
<td>McDonough, Lorette</td>
<td>McDonough, Isabelle</td>
</tr>
<tr>
<td>McDowell, Blanche</td>
<td>McGarry, Mary E.</td>
</tr>
<tr>
<td>McGee, Noami</td>
<td>McGonag, Chas.</td>
</tr>
<tr>
<td>McNeil, C. C.</td>
<td>Magee, M. C.</td>
</tr>
<tr>
<td>Magnus, Ellis</td>
<td>Mahoney, James</td>
</tr>
<tr>
<td>Malcomb, Austin</td>
<td>Mansel, Frank</td>
</tr>
<tr>
<td>Markle, C. A.</td>
<td>Markel, Verna</td>
</tr>
<tr>
<td>Martin, Arthur</td>
<td>Masion, G.</td>
</tr>
<tr>
<td>Massey, Omar</td>
<td>May, Dean F.</td>
</tr>
<tr>
<td>May, Evelyn</td>
<td>May, Josephine</td>
</tr>
<tr>
<td>Medora, Floyd</td>
<td>Mertweiler, Leo</td>
</tr>
<tr>
<td>Mertweiler, Mary Anne</td>
<td>Mettisler, A. W.</td>
</tr>
<tr>
<td>Mettisler, A. W.</td>
<td>Meyer, Ernest</td>
</tr>
<tr>
<td>Mihel, Linda</td>
<td>Miller, J. E.</td>
</tr>
</tbody>
</table>
REGISTER

Whitney, Alfred
Wilcox, Elizabeth
Wilcox, Raymond E.
Wilford, E. J.
Williams, Ed. C.
Williams, Laura
Williamson, Chas.
Wilson, Chas.
Wiseman, Z. B.
Witwer, F. R.
Wolff, Corda
Wolff, Wm. J.
Wondrack, Anthony
Woodruff, Lowell
Wood, Alice C.
Woodward, John C.
Wright, Ray A.
Yost, Harvey W.
Zabed, John
Zellars, Raymond J.
Zettel, Heirs J.
Zook, Abner D.
Zook, David Blough.

Total .......... 467

Students regularly enrolled in University taking evening courses, deduct .......... 20

Total Evening Students .......... 447

SUMMARY OF ALL STUDENTS IN UNIVERSITY

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Seniors</td>
<td>23</td>
<td>13</td>
<td>36</td>
</tr>
<tr>
<td>Total Juniors</td>
<td>19</td>
<td>10</td>
<td>29</td>
</tr>
<tr>
<td>Total Pre-Junior</td>
<td>13</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>Total Sophomore</td>
<td>51</td>
<td>22</td>
<td>73</td>
</tr>
<tr>
<td>Total Freshmen</td>
<td>82</td>
<td>38</td>
<td>120</td>
</tr>
<tr>
<td>Specials (candidates for degree)</td>
<td>3</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Specials (not candidates for degree)</td>
<td>13</td>
<td>7</td>
<td>20</td>
</tr>
</tbody>
</table>

Total Men .......... 264
Total Women ......... 94

Total in Day Classes .......... 298
Total in Evening Classes .......... 447
(On the basis that five evening students are equivalent to one full-time student) .......... 89

Total Full-time Students in University .......... 337
SUMMARY OF GEOGRAPHICAL DISTRIBUTION
OF STUDENTS
(Exclusive of Evening Classes)

Akron ........................................... 249
Summit County outside of Akron ............... 13
Ohio outside of Summit County ................... 27
Other States ................................... 9

298

DEGREES CONFERRED
BUCHTEL COLLEGE
Class of 1916

BACHELOR OF PHILOSOPHY

Allen, Ann E. ........................................ Akron
Cooper, William V. ................................ Akron
Dresher, Elizabeth ................................ Akron
Dwyer, Helen G. ................................ Akron
Glock, Clementine M. ................................ Akron
Hull, Lois ........................................ Akron
Johnson, Ralph W. ................................ Akron
Mignin, A. Louise ................................ Stryker
Miller, Rhea Kathryn ........................ Akron
Pfahl, Eva ........................................ Akron
Sickler, Clement ................................ Barberton
Strandborg, Carl ................................ New Lyne

BACHELOR OF SCIENCE

Chisnell, Carl ........................................ Akron
Crawford, Porter J. ................................. Seville
Crisp, Park P. ....................................... Akron
Frick, Carl E. ....................................... Akron
Grismer, Karl ...................................... Akron
Hardman, Bert .................................... Akron
Rohner, Eva M. .................................... Akron
Smith, Wilson ...................................... Akron
Sours, Harold ...................................... Barberton
Taylor, George I. ................................ Akron
Warner, Raymond ................................ Barberton
Yackee, Burt ...................................... Barberton

CURTIS SCHOOL OF HOME ECONOMICS

BACHELOR OF SCIENCE

Phoehl, Bessie .................................. Akron
Willson, Irene ................................ Akron

PUBLIC ADDRESSES

January 11  A. W. Burnett—"Real Estate and mortgages."
January 18  Judge E. W. Stuart—"Akron 45 Years Ago."
February 11 Dr. G. Hopkins, Vice-President National Underwriters Society—“Insurance.”
February 18 T. E. Smith, Editor India Rubber Review—“Trade Journals.”
February 25 Prof. A. R. Hatton—Western Reserve University
February 29 Miss Alice Standish—State Organizer for Woman Suffrage.
March 7 Miss Emily Gilbert—Social Center Work.
March 14 Hon. E. R. Bathrick—“Legislative Procedure.”
March 28 J. Ed. Good—“The College Man.”
April 4 Mr. Ross M. Leggett, Chemist with Neel-Armstrong Co.—“Experiences in Mexico.”
April 11 Mr. Henry Oldys, National Lecturer for the Audubon Societies of America—“Birds, Bird Songs and Bird Protection.”
June 14 Miss Ida M. Tarbell—“The Free Mind” (Commencement Address)
June 14 Mr. J. Cameron McClean—“Celtic Folk Songs” (before the Alumni Association)
October 6 Dr. H. S. MacAyeal, Akron—“The Yellow Peril and the White Peril, in Japan.”
October 13 Mr. Glenn Swenson, Panama—“The Student’s Viewpoint.”
October 27 Prof. Bulger, University—“The German Educational System and German Efficiency.”
November 3 Dr. W. K. Stainaker (Goodyear Co.)—“Our Year Books.”
November 10 Miss Eveline Thomson, New York—“The Constantinople College for Women.”
November 17 Dr. H. W. Kellogg, Akron—“Why Go to College?”
November 24 President Kolbe—“Intercollegiate Associations.”
December 8 Dr. R. W. E. Cole—“The Organization of Public Health Work.”
December 15 W. Kee Maxwell, The Akron Evening Times—“Humor of the Press.”

PRIZES AND HONORS

The Alumni Board of Trustees appropriates annually $100.00 from the Alumni Prize Fund for an Alumni speaker, under the auspices of the Alumni Association; also a cash prize of $50.00 to be awarded to that member of the graduating class who attains the highest average standing during the four year course. The prize for 1916 was divided between Miss Rhea Kathryn Miller and Miss Eva Pfahl.
THE OLIVER C. ASHTON PRIZES
Awarded for excellence in declamation
1915-1916
In the Junior Class: First prize to Dewey Lidyard; second prize to Marguerite Place.
In the Sophomore Class: First prize to Honora Tobin; second prize to William E. Hugi.

1916-1917
In the Senior Class: First prize to Esther E. Olin; second prize to William E. Hugi.

The Tomlinson Prizes on the Municipal University
First Prize: Josephine Cushman; second prize, Grace Lienhard.

Phi Sigma Alpha
(An honorary society for the purpose of encouraging high scholarship. Three students are chosen for membership from each senior class). In 1916 two were chosen for having the highest grades for three and one-half years, since the work was of the same grade.

1916
Eva Pfahl, Rhea Kathryn Miller, Raymond Warner, George I. Taylor.

BUCHTEL COLLEGE ALUMNI ASSOCIATION
Organized July, 1874
Incorporated October 15, 1899
OFFICERS FOR 1915-1916
President, C. C. McNeil, '09 ........................................ Akron
Vice Presidents, CHARLES JAHANT, '02 ................................ Akron
MAUDE HERNDON, '01 ........................................ Akron
Secretary, MRS. CECIL MCNEIL, '10 .............................. Akron
Treasurer, K. D. SMITH, '13 ........................................ Akron

ALUMNI BOARD OF TRUSTEES
Officers
C. C. McNeil, '09 ........................................ President ex-officio
MRS. C. C. McNeil, '10 ........................................ Secretary ex-officio
K. D. Smith, '13 ........................................ Treasurer ex-officio
REGISTER

Term Expiring June, 1917

Mrs. E. F. Voris, '77........................................ Akron
Howard Rohan, '10........................................ Akron
Ardon E. Hardgrove, '11.................................... Akron
Ethel Davies, '12........................................ Barberton

Term Expiring June, 1918

F. S. Goehrting, '08......................................... Akron
Carl M. Myers, '08.......................................... Akron
Mrs. H. E. Simmons, '06................................. Akron
Bernice Carter, '15........................................ Akron

Term Expiring June, 1919

Mrs. Susie C. Cole, '73................................. Akron
Leroy Barnett, '14......................................... Akron
Eva Rohner, '16........................................ Akron
Robert Wilson, '14........................................ Akron

Annual meeting of the Association during Commencement.

Stated meetings of the Alumni Board of Trustees: the Thursday evening of the week following Commencement week, the third Thursday evening of November, February and May.

SUMMARY OF ALUMNI

NUMBER OF GRADUATES

Men .......................................................... 286
Women .................................................... 245
Total ...................................................... 331

Geographical Distribution

Deceased .................................................. 50
Unknown .................................................. 4
In California ............................................. 13
In Colorado ............................................. 4
In Connecticut ........................................... 1
In Florida ................................................ 1
In Idaho ................................................... 3
In Illinois ............................................... 9
In Indiana ............................................... 13
In Iowa .................................................... 3
In Massachusetts ....................................... 10
In Michigan ............................................. 12
In Minnesota ............................................ 7
In Mississippi .......................................... 1
In Missouri ............................................. 3
In Montana ............................................... 1
In Nebraska ............................................. 2
In N. Carolina .............................................. 1
In N. Dakota ............................................... 1
In New Jersey .............................................. 2
In New Mexico ............................................. 1
In New York ................................................. 28
In Ohio ........................................................ 329
In Oklahoma .................................................. 1
In Oregon ...................................................... 2
In Pennsylvania ............................................. 20
In Texas ....................................................... 1
In Utah .......................................................... 1
In Vermont .................................................... 3
In Washington ............................................... 2
In Wisconsin ............................................... 1
In Wyoming ................................................... 1
In Alaska ...................................................... 1
In Panama ...................................................... 2
In France ..................................................... 1
In Georgia ..................................................... 1

Occupations of Alumni

- Actors ................................................. 2
- Architects ............................................... 1
- Artists .................................................... 1
- Authors ............................................... 3
- Bankers ............................................... 4
- Charity Organization Work ....................... 1
- Chemists ............................................... 22
- Clergymen ............................................ 11
- Clerical Work ........................................ 12
- Commercial Work ..................................... 37
- Contractors ........................................... 1
- Decorators ............................................ 1
- Engineers .............................................. 10
- Farmers ............................................... 9
- Forestry ............................................... 1
- Government Employ .................................. 1
- Insurance and Real Estate ....................... 9
- Lawyers ............................................... 40
- Librarians ............................................. 2
- Living at Home ....................................... 39
- Lyceum Bureau Work ................................. 1
- Manufacturers ...................................... 4
- Married ............................................... 81
- Merchants ............................................ 4
- Musicians .............................................. 4
- Newspaper Work .................................... 5
- Nurses .................................................. 4
- Physicians ............................................ 13
- Promoters ............................................. 4
- Public Service ...................................... 1
### FINANCIAL REPORT FOR 1916

*Current Income and Expense for January 1 to December 31, 1916.*

#### INCOME

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax Levy</td>
<td>$37,713.08</td>
</tr>
<tr>
<td>Students' Fees</td>
<td>10,635.14</td>
</tr>
<tr>
<td>Interest on Endowment</td>
<td>3,935.00</td>
</tr>
<tr>
<td>Rents</td>
<td>778.30</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>206.63</td>
</tr>
</tbody>
</table>

**Total Income** $73,268.15

#### EXPENSE

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal Service</td>
<td></td>
</tr>
<tr>
<td>Administration</td>
<td>$ 7,701.02</td>
</tr>
<tr>
<td>Instruction</td>
<td>39,473.29</td>
</tr>
<tr>
<td>Bureau City Tests</td>
<td>2,137.00</td>
</tr>
<tr>
<td>Labor</td>
<td>4,040.41</td>
</tr>
<tr>
<td>Special Legal Service</td>
<td>75.00</td>
</tr>
<tr>
<td>Supplies</td>
<td>5,995.44</td>
</tr>
<tr>
<td>Contractual Services</td>
<td>3,465.68</td>
</tr>
<tr>
<td>Membership in Societies</td>
<td>35.00</td>
</tr>
<tr>
<td>Maintenance</td>
<td>2,543.64</td>
</tr>
<tr>
<td>Annuities</td>
<td>1,915.05</td>
</tr>
<tr>
<td>Outlays</td>
<td>7,015.19</td>
</tr>
</tbody>
</table>

**Total Expense** $74,397.26
<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Officers</td>
<td>9</td>
</tr>
<tr>
<td>Admission, Evening Classes</td>
<td>134</td>
</tr>
<tr>
<td>Admission, Buchtel College</td>
<td>36</td>
</tr>
<tr>
<td>Admission, Curtis School</td>
<td>123</td>
</tr>
<tr>
<td>Admission, Engineering College</td>
<td>94</td>
</tr>
<tr>
<td>Admission, University</td>
<td>22</td>
</tr>
<tr>
<td>Advanced Standing</td>
<td>24</td>
</tr>
<tr>
<td>Aim of University</td>
<td>16</td>
</tr>
<tr>
<td>Alumni Association</td>
<td>178</td>
</tr>
<tr>
<td>Ashton Prizes</td>
<td>19, 178</td>
</tr>
<tr>
<td>Astronomy</td>
<td>76</td>
</tr>
<tr>
<td>Athletics</td>
<td>22, 34</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>128</td>
</tr>
<tr>
<td>Bierce Library</td>
<td>18</td>
</tr>
<tr>
<td>Biology</td>
<td>80, 128</td>
</tr>
<tr>
<td>Board of Directors</td>
<td>9</td>
</tr>
<tr>
<td>Buchtel College of Liberal Arts</td>
<td>16, 30</td>
</tr>
<tr>
<td>Bureau of City Tests</td>
<td>160</td>
</tr>
<tr>
<td>Bureau of Student Employment</td>
<td>21</td>
</tr>
<tr>
<td>Business Law and Administration</td>
<td>139</td>
</tr>
<tr>
<td>Business Training (Engineering School)</td>
<td>116, 117</td>
</tr>
<tr>
<td>Calendar</td>
<td>7</td>
</tr>
<tr>
<td>Chemistry</td>
<td>78, 105, 127, 140</td>
</tr>
<tr>
<td>Classical Archeology</td>
<td>50</td>
</tr>
<tr>
<td>Classical Course</td>
<td>34, 45</td>
</tr>
<tr>
<td>Classification</td>
<td>24</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>17, 26, 99</td>
</tr>
<tr>
<td>Combination Courses</td>
<td>17, 151</td>
</tr>
<tr>
<td>Combination Courses at University of Akron</td>
<td>151</td>
</tr>
<tr>
<td>Combination Courses with Ohio State University</td>
<td>151</td>
</tr>
<tr>
<td>Combination Courses with Western Reserve Medical School</td>
<td>155</td>
</tr>
<tr>
<td>Combination Courses with Other Schools</td>
<td>157</td>
</tr>
<tr>
<td>Committees of Board of Directors</td>
<td>9</td>
</tr>
<tr>
<td>Committees of Faculty</td>
<td>14</td>
</tr>
<tr>
<td>Community Co-operation</td>
<td>18, 160</td>
</tr>
<tr>
<td>Co-operative Work by University Departments</td>
<td>162</td>
</tr>
<tr>
<td>Courses in Department of Business Training</td>
<td>118</td>
</tr>
<tr>
<td>Courses for Evening Classes</td>
<td>136</td>
</tr>
<tr>
<td>Courses for Study in Buchtel College</td>
<td>44</td>
</tr>
<tr>
<td>Courses for Study in Engineering College</td>
<td>95</td>
</tr>
<tr>
<td>Courses of Study in Home Economics School</td>
<td>123</td>
</tr>
<tr>
<td>Credit for Evening Courses</td>
<td>135</td>
</tr>
<tr>
<td>Curtis School of Home Economics</td>
<td>17, 25, 128, 123</td>
</tr>
<tr>
<td>Degrees, Business Training</td>
<td>116</td>
</tr>
<tr>
<td>Degrees Conferred in 1916</td>
<td>176</td>
</tr>
<tr>
<td>Degrees in Buchtel College</td>
<td>44, 45, 46</td>
</tr>
<tr>
<td>Degrees in Engineering College</td>
<td>97</td>
</tr>
<tr>
<td>Degrees in Home Economics School</td>
<td>124</td>
</tr>
<tr>
<td>Department of Business Training</td>
<td>116</td>
</tr>
<tr>
<td>Departments of Instruction (Buchtel College)</td>
<td>49</td>
</tr>
<tr>
<td>Subject</td>
<td>Page</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Master's Degree</td>
<td>47</td>
</tr>
<tr>
<td>Mathematics</td>
<td>74, 103</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>129</td>
</tr>
<tr>
<td>Mental and Moral Philosophy</td>
<td>69</td>
</tr>
<tr>
<td>Minors</td>
<td>46</td>
</tr>
<tr>
<td>Non-resident Students</td>
<td>26</td>
</tr>
<tr>
<td>Officers of Board of Directors</td>
<td>9</td>
</tr>
<tr>
<td>Organization of Faculty</td>
<td>14, 9</td>
</tr>
<tr>
<td>Phi-Sigma Alpha</td>
<td>22</td>
</tr>
<tr>
<td>Physical Education</td>
<td>84, 127, 146</td>
</tr>
<tr>
<td>Physics</td>
<td>77, 106</td>
</tr>
<tr>
<td>Prizes</td>
<td>19</td>
</tr>
<tr>
<td>Prizes and Honors Awarded</td>
<td>177</td>
</tr>
<tr>
<td>Presidents of Buchtel College</td>
<td>20</td>
</tr>
<tr>
<td>Public Addresses</td>
<td>176</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>59</td>
</tr>
<tr>
<td>Register of Students</td>
<td>167</td>
</tr>
<tr>
<td>Registration</td>
<td>9, 94, 134</td>
</tr>
<tr>
<td>Regulations</td>
<td>25</td>
</tr>
<tr>
<td>Required Subjects for Classical Course</td>
<td>44</td>
</tr>
<tr>
<td>Required Subjects for Scientific Course</td>
<td>45</td>
</tr>
<tr>
<td>Requirement for Degree</td>
<td>25</td>
</tr>
<tr>
<td>Resident Students</td>
<td>26</td>
</tr>
<tr>
<td>Rhetoric</td>
<td>53</td>
</tr>
<tr>
<td>Romance Languages</td>
<td>67</td>
</tr>
<tr>
<td>Schedule of Classes in Buchtel College</td>
<td>88-91</td>
</tr>
<tr>
<td>Schedule of Classes in Department of Business</td>
<td>114</td>
</tr>
<tr>
<td>Schedule of Classes in Engineering College</td>
<td>114</td>
</tr>
<tr>
<td>Schedule of Classes in Home Economics School</td>
<td>120</td>
</tr>
<tr>
<td>Schedule of Classes in Evening Classes</td>
<td>147</td>
</tr>
<tr>
<td>Scholarships, Buchtel College</td>
<td>32, 33</td>
</tr>
<tr>
<td>Scientific Course</td>
<td>20, 34, 45, 46</td>
</tr>
<tr>
<td>Self Help</td>
<td>29</td>
</tr>
<tr>
<td>Senior Alumni Prize</td>
<td>19</td>
</tr>
<tr>
<td>Shop Work</td>
<td>95</td>
</tr>
<tr>
<td>Social Science</td>
<td>70</td>
</tr>
<tr>
<td>Spanish</td>
<td>68, 127</td>
</tr>
<tr>
<td>Special Students</td>
<td>23</td>
</tr>
<tr>
<td>Student Assistants</td>
<td>13</td>
</tr>
<tr>
<td>Student Assistantships</td>
<td>29</td>
</tr>
<tr>
<td>Student Employment Bureau</td>
<td>21</td>
</tr>
<tr>
<td>Student Organization</td>
<td>21</td>
</tr>
<tr>
<td>Subjects of Instruction (Buchtel College)</td>
<td>49</td>
</tr>
<tr>
<td>Subjects of Instruction (Home Economics School)</td>
<td>122</td>
</tr>
<tr>
<td>Subjects of Instruction (Engineering College)</td>
<td>120</td>
</tr>
<tr>
<td>Subjects of Instruction (Evening Courses)</td>
<td>134</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>3</td>
</tr>
<tr>
<td>Term Hours</td>
<td>25</td>
</tr>
<tr>
<td>Thesis</td>
<td>20</td>
</tr>
<tr>
<td>Tuminson Prizes</td>
<td>20</td>
</tr>
<tr>
<td>Training Course for Teachers</td>
<td>138</td>
</tr>
<tr>
<td>Tuition</td>
<td>21</td>
</tr>
<tr>
<td>University Lectures</td>
<td>149</td>
</tr>
<tr>
<td>Wages (Engineering College)</td>
<td>94</td>
</tr>
</tbody>
</table>