

G. P. Weeks

The Municipal University of Akron

Akron, Ohio

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of Akron

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of Buchtel College

AKRON, OHIO
April, 1922

TABLE OF CONTENTS**PART I****General Information**

	PAGE
CALENDAR	9
BOARD OF DIRECTORS	12
ADMINISTRATIVE OFFICERS	12
GENERAL FACULTY AND OFFICERS	13
COMMITTEES OF THE FACULTY	18
GENERAL INFORMATION—	
Foundation	20
Aim	20
Departments	21
Equipment	22
Bierce Library	23
Funds, Prizes and Scholarships—	
Katherine Claypole Loan Fund.....	24
Ashton Prizes	24
Senior Alumni Prize	24
Tomlinson Prizes	25
Loomis Cup	25
Buchtel College Scholarships	25
Rhodes Scholarship	26
Fellowships in Rubber Chemistry	26
Honor Courses	26
Free Tuition	27
Student Organizations	28

	PAGE
Bureau of Student Employment	28
Phi Sigma Alpha	28
Athletics	29
ADMISSION	29
Description of Entrance Units	31
REGISTRATION	36
GENERAL REGULATIONS	37
FEEES	38
LIVING CONDITIONS	39
SELF HELP	39

PART II

Buchtel College of Liberal Arts

FOUNDATION, INCORPORATORS, PRESIDENTS	41
ENDOWMENTS	42
PERPETUAL SCHOLARSHIPS	43
ENTRANCE REQUIREMENTS	44
COURSES OF STUDY AND DEGREES	45
THESIS	48
FEEES	48
DEPARTMENTS OF INSTRUCTION	49
Greek	49
Classical Archeology	50
Latin	50
Rhetoric	51

	PAGE
English Language and Literature	52
Speech	55
French	57
Spanish	58
German	58
Philosophy	58
Sociology	59
Political Science	59
Economics	61
History	62
Mathematics	63
Physics	65
Chemistry	67
Biology	71
Physical Education	74
Reserve Officers' Training Corps	76
Music	80

PART III

The College of Engineering and Commerce

GENERAL INFORMATION	82
Industrial Engineering	84
Commerce and Administration	84
Secretarial Course	84
Shop Work	84
Wages	85

	PAGE
Admission	85
Entrance Requirements	86
Courses of Study	86
Degrees	86
Fees	86
Expense Freshman Year	88
Outline of Courses	89
Departments of Instruction	96

PART IV

Curtis School of Home Economics

GENERAL INFORMATION	112
Admission	112
Entrance Requirements	112
Course of Study	112
Degrees	114
Fees	114
Subjects of Instruction	115

PART V

Teachers College

GENERAL INFORMATION	119
Tuition and Expense	120
Admission	121
Registration	122
Courses of Study and Degrees	122
Departments of Instruction	129

PART VI**Extension Courses**

	PAGE
ADMISSION	148
REGISTRATION	148
FEEES	149
COURSES FOR 1922-1923	150
SCHEDULE OF CLASSES	169
THE UNIVERSITY LECTURES	172

PART VII**Combination Courses**

AT THE UNIVERSITY OF AKRON	174
WITH THE OHIO STATE UNIVERSITY	174
The Arts-Law Course	175
The Arts-Agriculture Course	175
WITH WESTERN RESERVE MEDICAL SCHOOL	177
WITH OTHER SCHOOLS	179

PART VIII**Community Co-operation**

DIVISIONS OF CO-OPERATIVE WORK	180
Bureau of City Tests	181
Co-operative Work by Departments and Colleges.....	181

PART IX
Miscellaneous

REGISTER OF STUDENTS—

	PAGE
Buchtel College	186
College of Engineering and Commerce	195
Curtis School of Home Economics	200
Teachers College	201
Summary of Students in Day Classes	203
Extension Courses	204
Summary	212
DEGREES CONFERRED	214
PUBLIC ADDRESSES	216
PRIZES AND HONORS	217
ALUMNI ASSOCIATION	218
SUMMARY OF ALUMNI	219
GENERAL INDEX	221

UNIVERSITY CALENDAR

1922

- January 4, Wednesday—Class work resumed.
- January 14, Saturday, 8:00 A. M. to 5:00 P. M.—Classification for second semester for College of Liberal Arts, Curtis School of Home Economics, Teachers College, and Department of Commerce of the College of Engineering and Commerce.
- January 18, Wednesday—Founder's Day—Celebration of the one hundredth anniversary of John R. Buchtel's birth.
- January 20, Friday—Senior Ashton Prize Contest.
- January 21, Saturday, 8:00 A. M. to 5:00 P. M.—Registration and classification of new students.
- January 23-28, Monday to Saturday—Final examinations for all departments except Cooperative Engineering.
- February 1, Wednesday—Second semester begins.
- February 4, Saturday, 2:00-5:00 and 7:00-9:00 P. M.—Registration and classification for Extension Courses.
- February 13, Monday—Classification for cooperative engineering students, Section I.
- February 22, Wednesday—Washington's Birthday—a holiday.
- February 27, Monday—Classification for cooperative engineering students, Section II.
- April 7, Friday—Sophomore Ashton Prize Contest.
- April 8, Saturday noon—Easter recess begins.
- April 17, Monday—Class work resumed.
- May 18, Thursday—Student elections.
- May 12-19, Friday to Friday—Classification of all students except cooperative engineers for fall semester.
- May 26, Friday—Tree Day.
- May 30, Tuesday—Memorial Day—a holiday.
- June 2, Friday—Junior Ashton Prize Contest.
- June 3, Saturday noon—Senior vacation begins.
- June 5-10, Monday to Saturday—Final examinations.
- June 11, Sunday—Baccalaureate Exercises.
- June 12-14, Monday to Wednesday—Commencement.
- June 19 to August 12—Summer session for cooperative engineering students.

- June 19 to July 29—Summer session for Teachers College.
- September 18, Monday—Registration and classification for College of Engineering and Commerce (Section I for cooperative students.)
- September 18 and 19—Registration and classification for College of Liberal Arts, Curtis School of Home Economics and Teachers College.
- September 19, Tuesday—First semester begins for cooperative engineering students.
- September 20, Wednesday—First semester begins for all departments except Cooperative Engineering and Extension Courses.
- September 23, Saturday, 2:00-5:00 and 7:00-9:00 P. M.—Registration and classification for Extension Courses.
- September 28, Thursday—Freshman elections.
- October 2, Monday—Registration and classification for cooperative engineering students, Section II.
- October 3, Tuesday—First semester begins for Extension Courses.
- November 23, 24, 25—Thanksgiving recess.
- December 16, Saturday noon—Christmas vacation begins for all departments.

1923

- January 2, Tuesday—Class work resumed in all departments.
- January 12-19—All students in College of Liberal Arts, Curtis School of Home Economics and Teachers College classify for second semester work during this week.
- January 18, Thursday—Founder's Day.
- January 19, Friday—Senior Ashton Prize Contest.
- January 20, Saturday—Registration and classification of new students.
- January 27, Saturday, 2:00-5:00 and 7:00-9:00 P. M.—Registration and classification for Extension Courses.
- January 29 to February 3—Final Examinations.
- February 6, Tuesday—Second semester begins for Extension Courses.
- February 7, Wednesday—Second semester work begins.
- February 19, Monday—Classification of cooperative engineering students, Section I.
- February 22, Thursday—Washington's Birthday—a holiday.
- March 5, Monday—Classification of cooperative engineering students, Section II.

- March 23, Friday—Sophomore Ashton Prize Contest.
March 24, Saturday noon—Easter recess begins.
April 2, Monday—Class work resumed.
May 17, Thursday—Student elections.
May 25, Friday—Tree Day.
May 28 to June 2—Final examinations for Extension Classes.
June 2, Saturday—Extension work closes.
June 8, Friday—Junior Ashton Prize Contest.
June 9, Saturday noon—Senior vacation begins.
June 11-16—Final examinations.
June 17, Sunday—Baccalaureate Exercises.
• June 18-20, Monday to Wednesday, inclusive — Commencement.

THE BOARD OF DIRECTORS

FRANK M. COOKE.....	Term expires 1924
JAMES P. LOOMIS.....	Term expires 1924
FRED M. HARPHAM.....	Term expires 1924
JOHN W. THOMAS.....	Term expires 1926
E. R. HELD.....	Term expires 1926
GEORGE M. ANDERSON.....	Term expires 1926
P. W. LITCHFIELD.....	Term expires 1928
WM. H. EAGER.....	Term expires 1928
CLYDE F. BEERY.....	Term expires 1928

Officers for 1922

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

Committees for 1922

<i>Committee on Finance:</i>	HARPHAM, LOOMIS, HELD.
<i>Committee on Investments:</i>	COOKE, BEERY, ANDERSON.
<i>Committee on Buildings and Grounds:</i>	THOMAS, LITCHFIELD, EAGER.

**ADMINISTRATIVE OFFICERS OF THE
UNIVERSITY**

PARKE R. KOLBE, Ph. D.....	<i>President of the University</i>
CHARLES R. OLIN, M. S.....	<i>Secretary of the University</i>
GLADYS P. WEEKS.....	<i>Registrar</i>
OSCAR E. OLIN, LL. D.....	<i>Vice-President of the Faculty</i>
H. V. EGBERT, M. S.....	<i>Secretary of the Faculty</i>
ALBERT I. SPANTON, A. M.....	<i>Dean of Buchtel College of Liberal Arts</i>
FRED E. AYER, C. E.....	<i>Dean of the College of Engineering and Commerce</i>
SARAH E. STIMMEL, B. S.....	<i>Director of the School of Home Economics</i>
W. J. BANKES, A. M.....	<i>Dean of Teachers College</i>
ELIZABETH A. THOMPSON, A. M.....	<i>Dean of Women</i>
FREDERICK SEFTON, B. S.....	<i>Physical Director</i>
RENA B. FINDLEY.....	<i>Librarian</i>
H. E. SIMMONS, M. S.....	<i>Director of Extension Courses</i>
W. DON HARRISON, A. M.....	<i>University Editor</i>

GENERAL FACULTY AND OFFICERS

1921-1922

PARKE R. KOLBE, Ph. D.

President of the University

President's House

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

Professor Emeritus of Chemistry

583 Weber Avenue

JOSEPH C. ROCKWELL, Ph. D.

Professor of Latin and Greek

58 Casterton Avenue

OSCAR E. OLIN, A. M., LL. D.

*Messenger Professor of Philosophy and Sociology and Vice-**President of the Faculty*

75 Nebraska Street

ALBERT I. SPANTON, A. M.

Pierce Professor of English and Dean of Buchtel College

407 Vine Street

HEZZLETON E. SIMMONS, M. S.

*Buchtel Professor of Chemistry and Director of Extension
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331 Beechwood Drive

FRED E. AYER, C. E.

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Engineering*

Tallmadge, Ohio

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Director of the School of Home Economics

175 Merriman Road

W. J. BANKES, A. M.

Dean of Teachers College

355 Pioneer Street

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Director of the Department of Physical Education

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Hilton Professor of Modern Languages

74 Mayfield Avenue

AMON B. PLOWMAN, Ph. D.

Professor of Biology

346 Crown Street

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Professor of History and Dean of Women
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Professor of Physics
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Professor of Military Science and Tactics
619 Lumiere Street

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Professor of Coordination
189 Hyde Avenue

GEORGE L. HAYES, Ph. D.

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341 Ido Avenue

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384 Reed Avenue
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Assistant-Professor of English
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U. S. A.
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Assistant-Professor of Military Science and Tactics
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792 Kenyon Street
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356 East Buchtel Avenue

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✓ FRED S. GRIFFIN, M. E.

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157 Marvin Avenue

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Instructor in Modern Languages

349 Carroll Street

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*SARAH DUNCKLEY

Physical Instructor for Women

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ROLLAND D. FOX, B. S.

Graduate Assistant in Biology

395 Doyle Street

HENRY W. ROBINSON

Mechanician, Engineering Laboratory

728 Kolb Street

Library Staff

RENA B. FINDLEY

Librarian

229 Spicer Street

JOSEPHINE A. CUSHMAN, Ph. B., B. L. S.

Instructor in Library Science and Associate Librarian

517 Crosby Street

HELEN MCBRIDE OSTERHOUSE, A. B.

Assistant Librarian

81 Wise Street

Extension Courses**ALVIN S. VOGELGESANG.....*Business Administration*GORDON COOK.....*Advertising*R. H. HEMPEL.....*Business Administration*C. A. MORGAN.....*Business Administration*WALTER BISHOP, A. B.....*Business Administration*BELLE D. BOYSON, Ph. B.....*Applied Social Science*Industrial Vocational Training**

(Smith-Hughes Work)

R. H. WATERHOUSE.....*Continuation School Methods*T. L. MCJOYNT, LL. B., B. C. S.....*Trade Analysis*A. B. MURPHY, B. S., C. E.....*Trade English*S. G. MILLER, B. S.....*Trade Mathematics****Co-operating Officers and Teachers of Akron Schools**CARROLL R. REED, A. M.....*Superintendent of Akron Schools*FAYE BENNETT, A. M.....*Educational Measurements*A. O. HECK, A. M.....*Educational Measurements*NELLIE L. GLOVER.....*Supervisor of Music*WALTER FRYE, B. S.....*Science*JULIA KENNISTON.....*Art****Supervisors of Practice Teaching**AGATHA SCHLENKER.....*Kindergarten*NELLIE HAYMAKER.....*First Grade*EDITH OWEN.....*First and Second Grades*HELEN KELLEY.....*Second and Third Grades*MILDRED LAWRENCE.....*Third and Fourth Grades*ALICE MCARTOR.....*Fifth and Sixth Grades*

* Part-time instructors.

Student Assistants

CLARENCE F. HILL.....	<i>Bureau of City Tests</i>
ESTHER LOUISE WILLIAMS, A. B.....	<i>Business Administration</i>
ROY WILT.....	<i>Business Administration</i>
CARL POULSON	<i>English</i>
CONRAD VAN HYNING.....	<i>English</i>
MARION WEAVER	<i>History</i>
ELIZABETH BACHTEL	<i>Library</i>
WALLACE MACKINNON	<i>Library</i>
FLOYD O. MAJOR.....	<i>Library</i>
JOHN DAVIES	<i>Physics</i>
FLOYD O. MAJOR.....	<i>Political Science</i>

COMMITTEES OF THE GENERAL FACULTY

1921-1922

Executive

KOLBE, O. E. OLIN, SPANTON, AYER, SIMMONS

Classification*Buchtel College*—BULGER, SPANTON, PLOWMAN, CRECRAFT,
EGBERT, JONES, HOUSEHOLDER, SCHMIDT, HOWE*College of Engineering*—BULGER, AYER, MCJOYNT,
McDERMOTT, DURST*Curtis School of Home Economics*—BULGER, STIMMEL,
STINSON*Teachers College*—BULGER, BANKES, HAYES*Extension Courses*—SIMMONS, TAILLIART, PEASE,
McDERMOTT, FRIEDLANDER, J. BULGER, STINSON,
BANKES, HAYES**Public Speaking**

McEBRIGHT, THOMPSON, McDERMOTT

Social

THOMPSON, MCJOYNT, CRECRAFT, REED, MALONE

Holiday ObservancesREED, O. E. OLIN, DeLEONE, DUNCKLEY AND CLASS
ADVISERS

Athletics

C. BULGER, SEFTON, C. R. OLIN, MOORE

University Printing

McJOYNT, WALTHER, HARRISON

Student Affairs

(Council, Honor System, Elections, Advisers, etc.)

SIMMONS, PLOWMAN, THOMPSON, HAYES, GAUSS, SAYGER

Library

CRECRAFT, SCHMIDT, FINDLEY, CUSHMAN, ALLEN, HAYES,
McJOYNT

Scholarship and Honors

ROCKWELL, STIMMEL, JONES, LIPSCOMBE, COLLINS

Extension Lectures

ROCKWELL, BANKES, GRIFFIN

University Assembly

DURST, HOWE, SCHAEFER

Faculty Representatives for Student Activities

FRESHMAN CLASS.....	SIMMONS
SOPHOMORE CLASS	CRECRAFT
JUNIOR CLASS	HARDGROVE
SENIOR CLASS	SPANTON
BUCHTELITE	HARRISON
MEN'S CLUB ROOMS.....	SEFTON
WOMEN'S CLUB ROOMS.....	THOMPSON
WOMEN'S LEAGUE	STINSON

GENERAL INFORMATION

FOUNDATION

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

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

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

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

AIM OF THE UNIVERSITY

As a representative of the new type of municipal institution, the University seeks to develop its units or departments into such schools as may train the high school

graduate in various practical and technical callings. Generally speaking, the College of Liberal Arts is used as the basis for all the units or schools of the University. The College of Liberal Arts also continues 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 and Commerce.
The Curtis School of Home Economics.
The Teachers College.
The Extension Courses.

BUCHTEL COLLEGE OF LIBERAL ARTS

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 and Bachelor of Science.

THE COLLEGE OF ENGINEERING AND COMMERCE

The College of Engineering and Commerce offers courses in various branches of engineering, and in commerce and finance.

THE CURTIS SCHOOL OF HOME ECONOMICS

A four-year course is offered leading to the degree of Bachelor of Science in Home Economics. Especial attention is given to preparation for teaching and other vocations.

THE TEACHERS COLLEGE

The Teachers College is organized under the joint management of the Akron Board of Education and the Directors of the University. The work is specifically organized for the preparation and training of teachers for the Akron Public School System, the professional improvement of teachers already in the service, and the study of educational problems.

THE EXTENSION COURSES

The University offers extension work in a number of departments in late afternoon and evening classes. 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

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.

COMMUNITY CO-OPERATION

It is the desire of the Directors of the University to bring its various schools into close touch with municipal activities and to assist the work of various city interests in every possible manner by expert advice and service. Advanced students are 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 Crouse Gymnasium and the President's residence. Since the completion of Buchtel Hall there have been constructed Olin Hall, occupied by the departments of biology and physics; the central heating plant; Curtis Cottage, used as the home of the School

of Home Economics; the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000; the Carl F. Kolbe Hall, the gift of Mr. F. A. Seiberling and Mr. F. H. Mason; and the engineering building.

STANDARDS

The Municipal University of Akron maintains in all its departments courses of standard grade and is in every sense a standard American college, as is evidenced by its membership in such standardizing organizations as the Ohio College Association and the North Central Association of Colleges and Secondary Schools. It is included in the approved list of the Association of American Universities for recommendation of the bachelor's degree to foreign universities and is approved for pre-medical work by the American Medical Association. Its women graduates are eligible to membership in the American Association of University Women.

BIERCE LIBRARY

The University Library had its origin in a collection donated in 1874 by the late General L. V. Bierce and, during the early days of Buchtel College, the Library was augmented by purchases from the proceeds of a bequest received from General Bierce's estate. In recognition of this gift, the library has been called Bierce Library. It occupies all of the main floor, a portion of the basement, and the second floor of Carl F. Kolbe Hall.

The Library contains about 16,400 catalog volumes, exclusive of pamphlets and several hundred volumes of public documents. Departmental libraries are maintained in Olin Hall for both the Biology and Physics Departments, and in the Engineering Building for the Departments of Engineering and Commerce.

Students are privileged also to use the Akron Public Library, and will find cooperative service between the two libraries. Cards for new books added in each are on file in the catalog of the other, and the resources of both libraries are open to students and citizens.

Bierce Library is open on all week days except legal holidays. Morning hours are observed during vacation.

FUNDS, PRIZES AND SCHOLARSHIPS**The Katherine Claypole Loan Fund**

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

The principal of the fund is loaned to students "who in mid-term, as often happens, find themselves without sufficient means to complete the year's work." Applications should be addressed to Mrs. E. F. Voris, Treasurer, 369 East Buchtel Avenue.

LOAN FUNDS BY CIVIC ORGANIZATIONS

Loan Funds have been established by the Akron Rotary Club and by the Akron Real Estate Board for the benefit of students of the University. Information may be secured concerning these funds by application to the secretaries of the organizations or to the President of the University.

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 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 the University of Akron who has completed the regular four-year course with the highest average grade. Only students who have taken their entire course in the University of Akron are eligible.

The Tomlinson Prizes

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

The Loomis Cup

In 1916 Mr. James P. Loomis, of Akron, donated a silver cup, to be held annually by that High School in the City of Akron whose graduates during the preceding year had made the best scholastic record in the freshman class at the Municipal University. The cup was to become the permanent possession of that school which first won its possession for three years.

For 1915-1916 and 1919-1920 the cup was won by West High School; for 1916-1917, 1917-1918, and 1918-1919, South High School was the winner, and by the terms of the award now owns the cup. However, Mr. Loomis has generously purchased another cup. The winner for 1920-1921 was South High.

Buchtel College Scholarships

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.

Rhodes Scholarships

Men who have completed their sophomore year at Buchtel College are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of \$1,500 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extra-curriculum activities. Further information may be obtained from any member of the Rhodes Scholarship Committee of Selection for Ohio: Chairman, President W. O. Thompson, Ohio State University, Columbus, O.; Professor B. E. Schmitt, Western Reserve University, Cleveland, O.; Cary R. Alburn, Esq., Attorney, Garfield Bank Building, Cleveland, O.; Secretary, Professor Leigh Alexander, Oberlin College, Oberlin, O.

Fellowships in Rubber Chemistry

Two fellowships have been established in the Department of Chemistry, one by The Goodyear Tire & Rubber Company and one by The Firestone Tire & Rubber Company, for the study of the chemistry of india rubber. These fellowships are open to graduates of standard American colleges and are of the value of \$500 per year each, with remission of all University fees.

Honor Courses

At the regular meeting of the Faculty on June 6, 1921, it was recommended by the committee on Honor Courses, and voted by the Faculty, to adopt the following plan for Honor Courses in the Municipal University of Akron.

1. "Honor Courses" shall be defined as courses designed primarily to acquaint the student with the fundamental principles and methods of independent investigation and study. Since the chief aim of such courses will be to teach the student how to learn, rather than to teach him concrete facts, these courses shall not be counted for credit toward any degree.

2. Any student in good and regular standing may register for work in an Honor Course, after the middle of the Junior year, and not later than the middle of the Senior year.

Such registration shall be made with the Registrar, after consultation with the faculty member who is to act as adviser to the student in this work, and only with the written consent of this faculty member.

3. Upon the completion of a satisfactory piece of work, and upon written recommendation of the supervising faculty member, the subject of the investigation, under the caption, "Honor Course," shall be entered upon the student's record card in the office of the Registrar.

4. The names of Honor Course students, with the titles of their completed investigations, shall be printed in the annual catalog, and also upon the program of Commencement Week.

FREE TUITION

(Extracts 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

* The application of the above rules has resulted in the following practice: Any student whose parents are not residents of Akron must pay non-resident tuition until he has become twenty-one years of age and has resided in Akron for at least one year.

certificate from the County Auditor or Treasurer, stating the amount so paid.

STUDENT ORGANIZATIONS

The following organizations have been formed among the students of the University:

The Student Council; the Athletic Association; the Women's League; the Tel-Buch Association (Junior Class); the Reserve Officers Training Corps; the Buchtelite Association; the Dramatic Study Club; the Chemistry Club; the English Club; the Biology Club; the Engineers' Club; the Home Economics Club; the Physics Club; the French Club; the Musical Organizations; the class organizations; the Commons Club, and a number of professional honor fraternities.

Elections for a number of these are held on the same day and are controlled by a joint board from the faculty and the student body.

THE BUREAU OF STUDENT EMPLOYMENT

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

PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary fraternity, founded for the purpose of encouraging high scholarship among the students of the Liberal Arts College. No student, however, with an average grade of less than 85 per cent shall be eligible for membership, and not more than three students shall be chosen from each senior class as follows:

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

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

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

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

The colors of the fraternity are green and silver.

ATHLETICS

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

ADMISSION

Methods of Admission

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

Entrance Requirements

The requirement for unconditional entrance to any department of the University is 15 units, not less than 12 of which must be from the following subjects: English, Mathematics, Foreign Language, Science, History, Civics, Economics and Sociology. A unit is a full year's work in a subject, with four 1-hour or five 45-minute recitation periods a week.

Examinations are required in subjects presented for admission with grades below the passing mark.

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

Admission by High School Certificate

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

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

Admission from Other Colleges

Students from other colleges of recognized standing may be admitted to advanced standing on presentation of a certificate of work done and a statement of honorable dismissal. A degree will not be granted a student entering with advanced standing from another college unless he spends a full year in residence and completes 32 semester hours of work.

Special Students

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

Irregular Students

Irregular students are those who have satisfied entrance requirements but have not chosen a major.

Subjects Required for Admission

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

Buchtel College of Liberal Arts.....	page 44
The College of Engineering and Commerce.....	page 86
The Curtis School of Home Economics.....	page 112
Teachers College	page 121
Extension Courses	page 148

Subjects Accepted for Admission

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

Foreign Language (not more than 6 units in all)	English3 or 4 units
Greek1 or 2 units	Mathematics
Latin1 to 4 units	Algebra1½ or 2 units
French1 to 4 units	Geometry1 or 1½ units
German1 to 4 units	History
Spanish1 or 2 units	Advan'd U. S. ... ½ or 1 unit
Science (not more than 4 units in all)	General1 or 2 units
Physics1 unit	English ½ or 1 unit
Chemistry1 unit	Civics½ unit
Zoology½ or 1 unit	Political Economy½ unit
Botany½ or 1 unit	Vocational subjects (not more than 4 units in all)
Physiology½ unit	Manual Arts1 to 3 units
Phys. Geog.½ or 1 unit	Domestic Science...1 to 3 units
	Com'l subjects.....1 to 3 units
	Agriculture½ or 1 unit

Entrance at Mid-year

Students graduating from high school at mid-year with one or more years of French, Spanish, or German, or four years of Latin, may enter at once any college of the University. They may elect from the following subjects:

French (3 or 4 hrs.)	Literature 66 (3 hrs.)
Spanish (3 or 4 hrs.)	Speech (3 hrs.)
German (3 or 4 hrs.)	College Algebra (4 hrs.)
Rhetoric 51 (3 hrs.)	Current Events (1 hr.)

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

DESCRIPTION OF ENTRANCE UNITS

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

ENGLISH, 3 or 4 Units

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

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

The applicant should bring a written statement from the principal or superintendent of the school attended,

stating definitely the books read, and the amount of time given (1) to Rhetoric and Composition and (2) to the reading and study of the required classics.

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

MATHEMATICS

Algebra, 1½ or 2 Units

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

Geometry, 1 or 1½ Units

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

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

FOREIGN LANGUAGES

Latin, 1, 2, 3, or 4 Units

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

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

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

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

Greek, 1 or 2 Units

First Year. Beginners' Lessons in Greek.

Second Year. Xenophon's Anabasis.

German, 1, 2, 3, or 4 Units

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

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

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

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

Three Years. In addition to the requirements for the first two years, the candidate should have read at least two more classic dramas, and at least one hundred pages of more difficult prose, such as Die Harzreise or selections from Dichtung und Wahrheit, and should be able to discuss these freely in the German language. He should

show the results of an additional year's drill in translating more difficult English prose into German either by writing or orally, and should have had instruction in the literary history of Germany in the later Classic and Modern Period.

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

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

French, 1, 2, 3, or 4 Units

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

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

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

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

Four Years. The work of the fourth year should include the reading of at least eight hundred pages of standard

French, classical and modern: the writing of numerous short themes in French; a knowledge of the principal authors and works of French literature and of the important periods in French history; an ability to discuss in French the works read.

Spanish, 1 or 2 Units

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

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

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

SCIENCES

Physics, 1 Unit

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

Chemistry, 1 Unit

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

Zoology, $\frac{1}{2}$ or 1 Unit

Botany, $\frac{1}{2}$ or 1 Unit

Physiology, $\frac{1}{2}$ Unit

Work in Botany, Human Physiology or Zoology should include laboratory studies amounting to at least one-fourth of the entire time devoted to the course. All laboratory exercises must be fully recorded by the student, and the notebook may be examined by the interested instructor before entrance credit is allowed. Not less

than $\frac{1}{2}$ unit will be counted in any one of the above subjects, and not more than two units will be allowed in the group. Any of the standard texts in these subjects will satisfy the requirements if taken along with the specified amount of laboratory work.

Physical Geography or Physiography, $\frac{1}{2}$ or 1 Unit

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

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

HISTORY, CIVICS AND POLITICAL ECONOMY

Advanced U. S. History, $\frac{1}{2}$ or 1 Unit

General History, 1 or 2 Units

English History, $\frac{1}{2}$ or 1 Unit

Civics, $\frac{1}{2}$ Unit

Political Economy, $\frac{1}{2}$ Unit

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

VOCATIONAL SUBJECTS

Manual Arts, 1 to 3 Units

Domestic Science, 1 to 3 Units

Commercial Subjects, 1 to 3 Units

Agriculture, $\frac{1}{2}$ or 1 Unit

REGISTRATION

The registration days* for the beginning of the school year 1922-1923 will be September 18 and 19; for the second semester, January 12 to 19.

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.

*This refers to registration for all work except extension classes. For these see page 148.

Procedure for Registration and Classification

1. Fill out registration card.
2. (a) If a new student, present yourself to the Committee on Entrance; then see the Classification Committee of the school to be entered.
(b) If not a new student, take registration card to the Classification Committee of the school in which you are enrolled.
3. Make out two cards for each class to which you are assigned.
4. Take Classification slip and cards 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. Three hours of laboratory work (including time for writing reports) 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 and Commerce.

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

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

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

Students in Buchtel College may elect a total amount of not more than twenty hours work in other schools or colleges of the University to be applied toward the requirements for graduation from Buchtel College. Work thus elected must not interfere with required major and minor studies, nor can it be substituted for them. All work elected in other colleges is subject to the approval of the Classification Committee.

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 27), 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 \$10.50 per semester, covering registration, incidentals and student activity fee. If not paid before October 2 of the first semester, or February 19 of the second semester, the fee is \$13.00 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. (See pages 48, 87, 115.)

Non-resident Students—The tuition for non-resident students is \$65.00 per semester in the College of Liberal Arts, the School of Home Economics, Teachers College and in full time classes in the College of Engineering and Commerce, in addition to the incidental fee of \$10.50 per semester. The tuition for co-operative students in engineering is \$40.00 for the first semester, \$40.00 for the second semester and \$20.00 for the summer term plus the regular incidental fee of \$10.50 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. If not paid before October 2 of the first semester or February 19 of the second semester the tuition fee is \$45.00 in the Engineering College and \$70.00 in other departments and the incidental fee is \$13.00.

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 first semester:

	If paid before Oct. 2 Feb. 19	If paid be- tween Oct. 2 and Nov. 1 or Feb. 19 and April 1
More than 8 hours per week.....	\$65.00	\$70.00
From 5 to 8 hours per week.....	40.00	42.50
3 or 4 hours per week.....	25.00	27.50
1 or 2 hours per week.....	15.00	17.50

Incidental Fee—

Payable by resident and non-resident students.

	If paid before Oct. 2 Feb. 19	If paid be- tween Oct. 2 and Nov. 1 or Feb. 19 and April 1
More than 8 hours per week.....	\$10.50	\$13.00
From 5 to 8 hours per week.....	8.50	10.50
3 to 4 hours per week.....	5.50	7.00
1 or 2 hours per week.....	3.50	

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.

After the student has classified, a charge of \$1.00 will be made for any change in his program of studies.

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.

LIVING CONDITIONS

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.

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 thirty-five cents per hour for time spent. 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 University Convention in co-operation with the Hon. John R. Buchtel. It became a part of the Municipal University of Akron on December 15, 1913. The following is a list of the original incorporators of Buchtel College:

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

PRESIDENTS OF BUCHTEL COLLEGE

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

*Deceased.

ENDOWMENTS**Messenger Professorship**

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

Hilton Professorship

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

Pierce Professorship

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

Buchtel Professorship

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

Ainsworth Professorship

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

Ryder Professorship

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

Messenger Fund

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

Isaac and Lovina Kelly Fund

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

William Pitt Curtis Fund

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

Crosley Library Fund

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

**PERPETUAL SCHOLARSHIPS IN
BUCHTEL COLLEGE**

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

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

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

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

*Deceased.

†In honor of her father, Eliphas Burnham.

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

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

ENTRANCE REQUIREMENTS

(For general entrance requirements to the University, see page 29.)

The minimum requirement for entrance to the Liberal Arts College is 15 units, a unit being a full year's work in a subject, with four 1-hour or five 45-minute recitation periods a week. Not less than 12 of the 15 units must be from the following subjects: English, Mathematics, Foreign Language, Science, History, Civics, Economics, Sociology. The following 9½ units must be included:

English	3 units
Mathematics (Algebra, 1½; Plane Geometry, 1).....	2½ units
*Foreign Language (4 recommended).....	2 units
History	1 unit
Science (must include laboratory work).....	1 unit

*Not less than a full unit in the beginning of any language will be accepted.

Four units of foreign language are required of students in A. B. Courses desiring to major in foreign language. For a major in Latin, or in Latin and Greek, these four units must be Latin.

Foreign language offered for entrance, in excess of four units, and above and beyond the college entrance requirements, will be given 50 per cent credit on college work, provided the grade has been at least 85 per cent and the student continues the language acceptably in the University.

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 see page 44.)

For combination courses see pages 22, 174.

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.

Students are not allowed to begin two languages at the same time.

FRESHMAN STUDIES**The A. B. Course**

Rhetoric	3 credit hours each semester—required	
American Government	4 credit hours each semester—required	
Physical Training (women)	1 credit hour each semester—required	
Physical Training and Military Drill (men)	2 credit hours each semester—required	
Freshman Lectures	$\frac{1}{2}$ credit hour first semester—required	
French	3 or 4 credit hours each semester	} one re- quired
Spanish	3 or 4 credit hours each semester	
German	3 or 4 credit hours each semester	
Latin	4 credit hours each semester	
Greek	4 credit hours each semester	
*Mathematics	4 credit hours each semester—required	

The B. S. Course

Rhetoric	3 credit hours each semester—required	
Mathematics	4 credit hours each semester—required	
Physical Training (women)	1 credit hour each semester—required	
Physical Training and Military Drill (men)	2 credit hours each semester—required	
Freshman Lectures	$\frac{1}{2}$ credit hour first semester—required	
†Chemistry	4 credit hours each semester	} one re- quired
Physics	4 credit hours each semester	
†Biology	4 credit hours each semester	} one re- quired
French	3 or 4 credit hours each semester	
Spanish	3 or 4 credit hours each semester	
German	3 or 4 credit hours each semester	

*Students in A. B. Courses who do not wish to take Mathematics may choose instead either Latin or Greek.

†Freshmen intending to major in Chemistry must take Chemistry 351 and 352 (7 credit hours each semester) instead of the regular freshman Chemistry, and will postpone Rhetoric until the sophomore year.

Students intending to major in Biology must take Biology in the freshman 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 work beyond the freshman year and outside of the major and minor requirements is elective, 16 hours per semester being counted as regular work.

In the following table of what is required for each major, both freshman and upper classman subjects are included.

MAJORS LEADING TO THE A. B. DEGREE

- I. **Greek and Latin.** A minimum of 40 hours, at least 14 of which must be Greek.
- II. **Latin.** A minimum of 32 hours.
- III. **German and French.** A minimum of 20 hours of each.
- IV. **Romance Languages.** A minimum of 40 hours (26 of French and 14 of Spanish).
- V. **Philosophy and Sociology.** Thirty hours.
- VI. **Economics and Political Science.** Twelve hours of each.
- VII. **History.** A minimum of 24 hours.
- VIII. **English Literature.** A minimum of 24 hours, exclusive of Rhetoric 51 and 52.

MAJORS LEADING TO THE B. S. DEGREE

- IX. **Chemistry.** A minimum of 40 hours.
- X. **Mathematics.** A minimum of 32 hours.
- XI. **Physics.** A minimum of 28 hours.
- XII. **Biology.** A minimum of 32 hours.

MINORS REQUIRED WITH EACH MAJOR

(The figures indicate semester hours required)

MINORS	Chemistry Major—40 hrs.	Math. Major—32 hrs.	Physics Major—28 hrs.	Biology Major—32 hrs.	Greek and Latin Major 40 hrs.	Latin Major—32 hrs.	German and French Major—40 hrs.	Romance Lang. Major 40 hrs.	Philos. and Sociology Major 30 hrs.	Econ. and Pol. Sci. Major 24 hrs.	History Major—24 hrs.	Eng. Lit. Major—24 hrs.
1. Lit. 65 and 66, 69 and 70, or 75 and 76.....	6	6	6	6	6	6	6	6	6	6	6	6
2. Human Biology.....	6	6	6	6	4	4	4	4	4	4	4	4
3. History.....	6	6	6	6	6	6	6	6	6	6	6	6
4. Philos. or Sociology.....	6	6	6	6	6	6	6	6	6	6	6	6
5. Econ. or Pol. Sci.....	6	6	6	6	6	6	6	6	6	6	6	6
6. †Modern Language.....	6 ³	6 ³	6 ³	6 ³	6 or 8	6 or 8	6	6	6	6	6	6
7. †Foreign Language.....	6 ³	6 ³	6 ³	6 ³	6 or 8	6 or 8	6	6	6	6	6	6
8. Public Speaking.....	3	3	3	3	3	3	3	3	3	3	3	3
9. *Biology.....	8	8	8	8								
10. *Chemistry.....	8	8	8	8								
11. *Physics 331 and 332	8	8	8	8								
12. Soph. Math.....			9									

†In addition to foreign language for freshman requirements.

‡The minimum requirement in foreign language (including work taken either in high school or in the University) for graduation from the Liberal Arts College is five years. This must include not less than two years of each of two languages. At least two of the five years' work in language must be taken in the University.

*The science requirement in A. B. courses is as follows: (1) one year—8 credit hours—of Chemistry, Physics or Biology. Students who had Chemistry in high school, but not Physics, must take Physics; those who had Physics, but not Chemistry, must take Chemistry; those who had neither, must take either Chemistry or Physics; those who had both, may take either Chemistry, Physics, or Biology; (2) one year—4 credit hours—of Human Biology, except for those who elect Physiology.

¹Must be History of England.

²Must be Psychology.

³Must be second year German or second year French.

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.

FEES

For general statement see pages 38, 39. 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 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 331 and 332, each	\$2.50
Physics, Advanced courses, each semester.....	4.00
Biology 401-404, 411-412, 417, 425-430.....	2.50
Biology 419-420	4.00
Biology 423-424, per semester-hour	1.00
Biology 419-420, breakage deposit	5.00
Graduation fee—payable one week before graduation	5.00

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:

Subjects	Course Numbers
Ancient Languages	1- 50
English	51-100
German	101-150
Romance Languages	151-200
Mental and Moral Philosophy	201-250
Economics, Political Science, History.....	251-300
Mathematics	301-330
Physics	331-350
Chemistry	351-400
Biology	401-450
Physical Training	
Music	

Courses starred in the following pages are open only to juniors and seniors.

GREEK

PROFESSOR ROCKWELL

Major: A minimum of forty hours is required for a major in Greek and Latin. At least fourteen hours must be taken in Greek.

1. **White's First Greek Book.—(First Semester.)** Four hours.
2. **Gospel of St. Mark.—(Second Semester.)** Four hours.
3. **Selections from Plato.—(First Semester.)** Three hours.
4. **Homer's Odyssey.—(Second Semester.)** Three hours.
83. **Greek Masterpieces thru English Translations.—(First Semester.)** Three hours.

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. Open to all upper classmen.

84. **Latin Masterpieces thru English Translations.—(Second Semester.)** Three hours.

The continuation of the preceding course. Open to all upper classmen.

CLASSICAL ARCHEOLOGY

PROFESSOR ROCKWELL

Courses 17 and 18 will count toward either major offered in this department.

- *17-18. **History of Greek Sculpture.—(Both Semesters.)**
Three hours. Not given 1922-1923.
19. **Classical Mythology.—(First Semester.)** Two hours.
For upper classmen. Repeated the second semester as a three-hour course for freshmen.
24. **The Influence of Greece and Rome on Modern Life.—(Second Semester.)** Two hours.

LATIN

PROFESSOR ROCKWELL

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

Major: Thirty-two hours constitute a major in Latin.

Major: Forty hours constitute a major in Greek and Latin. At least fourteen must be taken in Greek.

25. **Cicero (De Amicitia); Plautus (Manachmi).—(First Semester.)** Four hours.

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.)**
Four hours. Required of freshmen in Majors I and II.
27. **Livy (Books XXI-XXII).—(First Semester.)**
Three hours. Courses 27 and 28 are open to students who have completed 25 and 26.
28. **Terence (Andria); Horace (Odes and Epodes).—(Second Semester.)** Three hours.

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

*Open only to juniors and seniors.

ENGLISH

DEAN SPANTON
 ASSISTANT-PROFESSOR PEASE
 MR. HOWE
 MR. HARRISON
 MRS. MACKINNON
 MISS CUSHMAN

RHETORIC

51. **Freshman Rhetoric.—(First Semester.)** Three hours.
 Repeated the second semester.

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

52. **Freshman Rhetoric.—(Second Semester.)** Three hours. Also given the first semester.

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

Note: An extra course in composition, one hour a week thru the year, is required in the sophomore year for all students who fail to make a grade of F+ in Rhetoric 52. No credit is given for this course until the student completes it to the satisfaction of the English department. Students failing to do satisfactory work in the sophomore year must repeat the course in the junior year and, if necessary, until graduation.

- 53-54. **Reporting and News Writing.—(Both Semesters.)**
 Two hours.

The members of this class form the reporting staff of The Buchtelite, the University newspaper. Each student is required to collect and write news for publication each week. Credit is given for correspondence published in local or other newspapers. Class work consists of lectures on the theory of news gathering and writing, and of criticism of professional and students' work.

Prerequisite, 51 and 52.

- 59-60. **Editing.—(Both Semesters.)** Two hours.

The members of this class edit The Buchtelite, the University newspaper. Each student is given opportunity to write heads, edit copy, and make up the paper. Extensive editorial writing is required. Class work consists of lectures on the theory of editing, and of criticism of professional and students' work.

Prerequisite, 53 and 54.

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

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.

Prerequisite, 51 and 52.

56. **Advanced Composition. — (Second Semester.)** Two hours.

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

- Conference Course in Composition.—(Both Semesters.)**
One-half to one hour.

A conference course in composition in co-operation with the various departments. In general, the content of the written themes is under the supervision of the instructors in other departments than English, preferably the department in which the student is majoring, while the rhetorical form is under the supervision of some member of the English department on a regular conference schedule. However, students desiring to pursue lines of writing independent of any department may do so; but they must offer a definite and serious program. Open only to such students as have shown ability in English composition, and are recommended by the English department. Credit, one-half hour to one hour a semester, with a maximum total for the year of two hours' credit.

LANGUAGE AND LITERATURE

Required work. In addition to the required work in Rhetoric, students in all courses must take at least six hours' work in the department of English Language and Literature. This requirement may be met by electing Courses 65 and 66, 69 and 70, or 75 and 76.

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

Order of Work. Courses 65 and 66 are prerequisite to the more advanced courses, and must be taken in the sophomore year by students desiring to major in English. The course in English History should also be taken in the sophomore year.

65. Development of English Literature. — (First Semester.) Three hours.

A quick survey of Anglo-Saxon and Early English literature, followed by a careful study of the Elizabethan and the Puritan periods, and of the last half of the 18th century. Prerequisite, 51 and 52.

66. Modern English Literature. — (Second Semester.) Three hours.

A study of the social forces which have shaped the development of modern English Literature, and of the expression of these forces in the works of leading writers since 1830. Prerequisite, 51 and 52.

***67. Chaucer.—(First Semester.)** Three hours.

A study of the best of the Canterbury Tales, and a rapid reading of other portions of Chaucer's poetry. Prerequisite: Courses 65 and 66.

68. Word Study.—(Second Semester.) Three hours.

After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Prerequisite, 51 and 52.

69. Shakspeare.—(First Semester.) Three hours.

A study of the development of Shakspeare as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read. Prerequisite, 51 and 52.

70. The English Bible as Literature.—(Second Semester.) Three hours.

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

*Open only to juniors and seniors.

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. Prerequisite, 51 and 52.

***73-74. British Poets and Essayists of the Nineteenth Century.—(Both Semesters.)** Three hours. Prerequisite, 65 and 66.

75-76. American Literature.—(Both Semesters.) Three hours.

After a somewhat rapid survey of the literature of the Colonial and Revolutionary Periods, the work centers in a study of the leading poets and prose writers of our later literature. Prerequisite, 51 and 52.

***79. English Fiction.—(First Semester.)** Three hours.

The development of prose fiction to 19th century. Study of the evolution of the novel as a distinct literary type as illustrated in the stories popular in Saxon, Medieval, Elizabethan, Puritan, and Restoration Periods. The 18th century novel. Reading of important works. Prerequisite, 65 and 66.

Not given 1922-1923.

***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. Prerequisite, 65 and 66.

Not given 1922-1923.

***81. English Drama.—(First Semester.)** Three hours.

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.

Prerequisite, 65 and 66.

***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.

Prerequisite, 65 and 66.

*Open only to juniors and seniors.

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

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.

Prerequisite, 51 and 52.

84. Latin Masterpieces thru English Translations.—(Sec-
ond Semester.) Three hours.

The continuation of the preceding course.

Prerequisite, 51 and 52.

89-90. Story Telling.—(Both Semesters.) Three hours.

In recent years Story Telling has become a significant movement in the field of education. This is because of the growing feeling that the study and practice of story-telling, of how to tell the right story at the right time in the right way, probably develops in the student the power of self-expression more than does any other form of speech education.

The course covers the history, uses, materials, and technique of story-telling.

Recitations, speeches, conferences. Dramatization once a month.

61. Bibliography.—(First Semester.) Two hours.

A study of the classification and arrangement of the books in the University Library, the card catalog and the more generally used reference books. Lectures and problems.

701-702. English Composition.

711-712. Literature.

These courses—701, 702, 711, 712—are given only for students in co-operative engineering. For description see under English in the College of Engineering and Commerce.

SPEECH

MISS McEBRIGHT

A three-years' course is offered in the department of Speech. 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. One semester of Speech is required for graduation.

91. Elementary Course.—(First Semester.) Three hours.
Repeated the Second Semester.

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. Prerequisite, 91.

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

Literary, dramatic, artistic interpretation, character study, Shakspeare's plays. Classic comedies. Prerequisite, 91.

***94. (Second Semester.)**

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

***95-96. Dramatic Study.—(Both Semesters.)** One hour.

The Dramatic Study Club meets once a week for class work. Students who have had at least the elementary course or its equivalent are eligible to this class. Each member pledges himself not only to the class but to all rehearsals called by the President of the Study Club, or by the Instructor in Speech. This club presents publicly all plays rehearsed. At least two plays a year will be presented.

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

97-98. Physical and Voice Work.—(Both Semesters.)

One hour. Open to all upper classmen.

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

*Open only to juniors and seniors.

MODERN LANGUAGES

PROFESSOR BULGER
 ASSISTANT-PROFESSOR REED
 MISS MALONE
 MR. TAILLIART
 DR. KOLBE

Language in General. (a) Candidates for entrance presenting but one year of modern language may take the second year on trial if they made a grade of 85%. If their grade was lower than 85%, they must take the first year over, and they will receive only half credit for the work.

Students presenting one or two years of a foreign language for entrance will enter the second year; those presenting three or four years will enter the third year.

Major in German and French. German and French may be combined to make a major. Twenty hours of work in each language are required for this major.

Major in the Romance Languages. A minimum of fourteen hours of Spanish and twenty-six hours of French constitute a major in the Romance Languages.

FRENCH

151-152. **Beginning French.—(Both Semesters.)** Four hours.

153-154. **Second Year French.—(Both Semesters.)** Three hours. Prerequisite, 151-152.

155-156. **Third Year French.—(Both Semesters.)** Three hours. The French Novel. Prerequisite, 153-154.

157-162. **Advanced French.** Three hours thru the year. Prerequisite, 155-156.

At least one course in advanced French will be given each year, which will be chosen from the following list: **The French Drama of the 17th Century, A Survey of French Literature, Modern Literature.**

717-718. **First Year French.**

719-720. **Second Year French.**

721-722. **Third Year French.**

These courses, 717-722, are given only for students in co-operative engineering courses. For description see under French in the College of Engineering and Commerce.

SPANISH

- 171-172. **Beginning Spanish.—(Both Semesters.)** Four hours.
- 173-174. **Second Year Spanish.—(Both Semesters.)** Three hours. Prerequisite, 171-172.
- 175-176. **Third Year Spanish.—(Both Semesters.)** Three hours. Prerequisite, 173-174.
- 713-714. **First Year Spanish.**
- 715-716. **Second Year Spanish.**
- 723-724. **Third Year Spanish.**

These courses, 713 to 724, are given only for students in co-operative engineering courses. For description see under Spanish in the College of Engineering and Commerce.

GERMAN

- 101-102. **First Year German.—(Both Semesters.)** Four hours.
- 103-104. **Second Year German.—(Both Semesters.)** Three hours. Prerequisite, 101-102.
- 107-123. **Advanced German.** Three hours thru the year. At least one of the following advanced courses will be offered: 107-108, **Goethe**; 111-112, **History of German Literature**; 115-116, **Schiller**; 123, **Lessing**; and 118, **Modern Drama**. Prerequisite, 103 and 104.

PHILOSOPHY AND SOCIOLOGY

PROFESSOR OLIN

Major. A full major is given in the department, consisting of Philosophy, Psychology, Ethics, Logic, Sociology, and Sociological Problems. Thirty hours.

- *201-202. **Psychology.—(Both Semesters.)** Three hours. Text-book: Pillsbury's Psychology.

An introductory course, but covering the whole subject. One hour of experiment and one hour of seminar work each week the second semester.

*Open only to juniors and seniors.

***203-204. Ethics.—(Both Semesters.)** Three hours.

Text-books: Mackenzie and Valentine.

A study of the ideals and standards of conduct, the development of the individual life, and the laws of moral progress. The second semester includes Natural Theology, the evidences from nature of the existence of God.

Prerequisite, Psychology 201-202.

205. Logic.—(Second Semester.) Three hours.

The science of reasoning and the methods of research. Should be taken in the sophomore year. Open to all upper-classmen.

***207-208. Philosophy.—(Both Semesters.)** Three hours.

Text-book: Fletcher's Introduction.

An introductory course in the nature of reality and knowledge, the categories of understanding, and the relation of consciousness to the external world.

Prerequisite, Psychology 201-202.

SOCIOLOGY**213-214. Sociology.—(Both Semesters.)** Three hours.

Text-book: Blackmar and Gillen.

An introductory course in the origin and forms of social groups, the laws and principles of social action, the methods of social betterment, and the incentives for individual and social effort.

Open to all upper classmen.

***216. Sociological Problems. — (First Semester.)** Three hours. Lecture course with field work.

A detailed study of such social problems as Housing, Poverty, Crime, Education, Population, etc. Lecture course, with field work. Prerequisite, 213-214.

POLITICAL SCIENCE AND ECONOMICS.

PROFESSOR CRECRAFT

Major. Twenty-four hours constitute a major, twelve of Economics and twelve of Political Science.

*Open only to juniors and seniors.

POLITICAL SCIENCE.

261. **American Government and Politics.—(First Semester.)** (Required of all freshmen in the liberal arts course.)

Course includes a study of the origin, development, structure, and activities of the national government, emphasis being laid on problems of administration and services rendered by the various departments. Text, discussions, and quiz sections. Four credit hours.

This course is repeated the second semester.

262. **American Government and Politics.—(Second Semester.)** (Required of all freshmen in the liberal arts course.)

Emphasis this semester laid on state and local government, including the political system of state governments, organization and functions, county and town government and measures securing popular control over same. Four credit hours.

263. **Municipal Government.—(First Semester.)**

Includes a study of the structure of city governments in the United States; relations with state governments, limitations and scope of municipal authority, city elections, city charters, etc. Text, lectures, and reports. Three credit hours. Open to all upper classmen.

264. **Municipal Administration.—(Second Semester.)**

Emphasis this term placed on the administration side of city government, demands for city services, municipal functions, progress in municipal development, current municipal problems. Text, reports, and discussions. Three credit hours. Open to all upperclassmen.

265. **The Elements of International Law.—(First Semester.)**

Study of the rules and customs which determine the conduct of nations in peace, war, and neutrality; past, present, and proposed methods of international co-operation; protection of persons and property abroad. Three credit hours. Open to all upper classmen.

266. **Elementary Constitutional Law.—(Second Semester.)**

A study of the constitution and its expansion as revealed in the decisions of courts and legislative practices. Course outlines the federal and state constitutional limitations as developed thru judicial interpretation. Text and reports. Three credit hours. Students entering must have had one year's work in Political Science.

*267-268. **Seminar in Political Science.—(Both Semesters.)**

Students entering this course will get permission from instructor. Three credit hours granted each semester upon completion of a satisfactory piece of work. Open only to juniors and seniors.

POLITICAL ECONOMY

251. **Principles of Economics.—(First Semester.)** Three hours.

Introduction to important economic theories and concepts: wealth, production, consumption, exchange, distribution, value, profits, rent, wages, interest, etc. Open to all upper classmen.

252. **Principles of Economics.—(Second Semester.)** Three hours.

Elementary consideration of the following economic problems: money, credit and banking, foreign exchange, the tariff, trusts, railroads, taxation, tax reform, labor legislation, labor co-partnership, social reform.

Prerequisite, 251.

253. **Corporations and Trust Problems.—(First Semester.)** Three hours.

The growth of corporations and the problems of an economic and political nature which have attended such growth.

254. **Labor Problems.—(Second Semester.)** Three hours.
Given 1921-1922 and alternate years thereafter.

Includes brief history of the labor movement; also the problems of an economical and political character that have arisen therefrom.

*Open only to juniors and seniors.

255. **Public Finance.—(Second Semester.)** Three hours.
Given 1922-1923 and alternate years thereafter.

A survey of the field of national, state, and municipal taxation. Other public revenues. Also a survey of the field of public expenditure. Problems in the administration of taxation.

HISTORY

PROFESSOR THOMPSON

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

In courses 273-4, 275-6, and 277-8, students will not be allowed to enter at the middle of the year, and credit will not be given for less than the full year's work.

- 271-272. **Elementary History of Europe.—(Both Semesters.)** Three hours. A prerequisite with 272 to all other courses in history when only one unit of history is offered for entrance to college.

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

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

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

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

275. **History of Europe. The Development of Europe from 1789 to 1870.—(First Semester.)** Three hours.

276. **History of Europe from 1870 to the Present Time.—(Second Semester.)**

Continuation of 275. Special attention is given to problems of the present day.

277. **American History, 1789-1850.—(First Semester.)**
Three hours.

278. **American History from 1850 to the Present Time.—(Second Semester.)**
Continuation of 277.

279. **History of Central and South America.—(First Semester.)** Two hours.

This course and 280 include a study of the history, economic conditions, and diplomatic relationships of our neighboring countries.

280. **History of Canada.—(Second Semester.)** Two hours.

290. **Current Events. (For Freshmen only.)—(Second Semester.)** One hour.

- 287-288. **History of Art.—(Both Semesters.)** Two hours.

The first semester is given to the history of foreign art; the second, to the history of American art. Students may take either semester's work, without necessarily completing the year's work.

MATHEMATICS—PURE AND APPLIED

PROFESSOR JONES
PROFESSOR EGBERT
MISS LIPSCOMBE

Major. Trigonometry, four hours; Algebra, four hours; Analytic Geometry, four hours; Calculus, ten hours; Elective, ten hours. Total, thirty-two hours.

302. **Algebra.—(First Semester.)** Four hours.

Surds, quadratic equations, systems of quadratics, variation and proportion, logarithms, progressions, permutations and combinations, binomial theorem, theory of equations.

This course is repeated the Second Semester.

301. **Trigonometry.—(Second Semester.)** Four hours.

Functions of angles, trigonometric equations, identities, solutions of triangles, inverse functions, and de Moivre's Theorem.

This course is repeated the First Semester.

303. **Analytic Geometry.—(First Semester.)** Four hours.

Straight line, circle, conic sections, loci, general equation of second degree, polar co-ordinates and equations, transformation of co-ordinates, plane and straight line in space, and surfaces of second order. Prerequisite: Math. 301 and 302.

304. **Calculus.—(Second Semester.)** Five hours.
Differentiation, maxima and minima, curve tracing, curvature, indeterminate forms, expansion of functions, and applications.
Prerequisite: Math. 303.
- *305. **Calculus.—(First Semester.)** Five hours.
General and special methods of integration, determination of lengths, areas, volumes, center of gravity, moment of inertia, and other applications.
Prerequisite: Math. 304.
307. **Mathematics of Investments.—(First Semester.)**
Three hours.
The study of interest, annuities, valuation of bonds and other securities, amortization and depreciation, by the aid of tables, graphs, formulas, and other general or specific methods of arithmetic or algebra.
Prerequisite, 302.
308. **History of Mathematics.—(Second Semester.)** Two hours.
The history of the invention and development of the notions, language, symbols, and methods of mathematics to the time of the invention of the Calculus.
Prerequisite, 301 and 302.

Courses will be offered from time to time from the following group, as need arises:

309. **Mathematics of Insurance.**
310. **Methods of Teaching Secondary Mathematics.**
311. **Differential Equations.**
312. **Analytical Mechanics.**
313. **Advanced Calculus.**
314. **Theory of Functions.**
315. **Higher Algebra and Geometry.**
316. **Differential Geometry.**

*Open only to juniors and seniors.

***320-321. Descriptive Astronomy.—(First Semester.)**

Three hours.

Prerequisite: Math. 303.

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

Instruments in the observatory are used to illustrate the subject.

725. **College Algebra.**

727. **Plane Trigonometry.**

728-9. **Plane and Solid Analytic Geometry.**

731-732-733. **Calculus.**

These courses, 725 to 733, are given only for students in co-operative engineering courses. For description see under Mathematics in the College of Engineering and Commerce.

PHYSICS

PROFESSOR HOUSEHOLDER
MR. COLLINS

Major. Students wishing to major in Physics must take the general course in the first or second year and complete in addition courses 333, 334, 335, 336, 336a, and 337, a total of 28 hours. Such students will be required to take both freshman and sophomore mathematics.

331. **General Physics.—(First Semester.)** Four term hours.

An introductory course covering the topics of mechanics, wave motion, sound, and heat. Two recitations and two laboratory periods per week.

332. **General Physics.—(Second Semester.)** Four term hours.

Continuation of 331, covering magnetism, electricity and light.

*Open only to juniors and seniors.

333. **Heat and Elementary Thermodynamics.—(First Semester.)** Five term hours.
A study of the mechanical theory of heat and its applications in heating, ventilation and refrigeration systems, and power generation. Three recitations and two laboratory periods per week.
Prerequisites: 331 and 332.
334. **Electricity and Magnetism.—(Second Semester.)** Five term hours.
A more thoro and extended course in magnetism and electricity than is possible in 332. Explanations and discussions based on the electron theory. Laboratory work concerned chiefly with theory and use of electrical measuring instruments.
Three recitations and two laboratory periods per week. Prerequisites: 331 and 332.
335. **Illumination.—(First Semester.)** Three hours.
The development of the fundamental principles of illumination, determination of the quantity and quality of the light from the common sources, and the selection of refractors, reflectors, and diffusing screens.
Two recitations and one laboratory period per week.
Prerequisites, 331-332.
- *336. **Light.—(Second Semester.)** Three term hours.
An advanced course in the theory of light, including the development of the wave theory, its influence and use in the study of spectra, and its applications in physical, chemical, and metallurgical testing laboratories. Especial emphasis on the part played by optics in present-day research.
Three recitations per week. Prerequisites, 331, 332, 333, 334.
- *336a. **Light Laboratory.—(Second Semester.)** Two term hours.
Laboratory work accompanying 336.
Interference, diffraction, and polarization phenomena, and their uses; spectrum analyses.
Two laboratory periods per week. Must be taken either with, or after, 336.

*Open only to juniors and seniors.

- *338. **Thesis Course.** Two to four term hours.
An individual problem course. Last semester of senior year. Hours to be arranged.

Advanced work in the following courses will be offered as soon as conditions require it:

- *339. **Electron Theory and Its Application.**
*340. **Kinetic Theory of Matter.**
*341. **Heat Conduction.**
*342. **Physical Measurements.**

781-782. **Elementary Mechanics.**

783-784. **General Physics.**

These courses, 781 to 784, are given only for students in co-operative engineering courses. For description see under Physics in the College of Engineering and Commerce.

CHEMISTRY

PROFESSOR SIMMONS.
ASSISTANT-PROFESSOR SCHMIDT.
MR. MOORE.
MR. SCHAEFER.

Major: Forty hours of Chemistry. These courses, or their equivalent, must be included: 351, 352, 359, 360, 357, 358, 367, 368, 371, 372.

Minors: Literature, 6 hrs; History, 6 hrs; Philosophy or Sociology, 6 hrs; Economics or Political Science, 6 hrs; Public Speaking, 3 hrs; Biology, 8 hrs; Physics, 8 hrs; equivalent of 2 years of German or French.

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

A study of the non-metallic elements with reference to their physical and chemical properties as they are needed to develop the modern theories of the behavior of matter. Four recitations and three laboratory periods. (Seven term hours.)

*Open only to juniors and seniors.

352. **Qualitative Analysis.—(Second Semester.)**
In this course the student studies the different ores in which the metals occur, their isolation and their chemical and physical properties. In laboratory the complete separation and identification of the common cations and anions along with many unknown are worked out. Four recitations and three laboratory periods. (Seven term hours.)
353. **General Inorganic Chemistry.—(First Semester.)**
A course designed to give the student a better appreciation of the principles which control the chemical changes of matter. Two recitations and two laboratory periods. (Four term hours.)
354. **General Inorganic Chemistry.—(Second Semester.)**
A continuation of 353 and open to students who have passed that course or its equivalent. Two recitations and two laboratory periods. (Four term hours.)
359. **Quantitative Analysis.—(First Semester.)**
Open to those who have satisfactorily completed 352 or its equivalent. By a list of selected experiments the student's quantitative technique is developed. The experiments illustrate both gravimetric and volumetric methods and many additional stoichiometric exercises. One recitation and three laboratory periods. (Four term hours.)
360. **Quantitative Analysis.—(Second Semester.)**
Open to those who have satisfactorily completed 359 or its equivalent. A continuation of this course. One recitation and three laboratory periods. (Four term hours.)
- *357. **Organic Chemistry.—(First Semester.)**
A discussion of the various methods of chemical synthesis of organic compounds, together with a study of their properties, purifications, uses, and identification. Topics studied include hydrocarbons, alcohols, acids, aldehydes, halogen derivatives, carbohydrates, amines, and amides. Two recitations and one laboratory period. (Three term hours.)

*Open only to juniors and seniors.

***358. Organic Chemistry.—(Second Semester.)**

A continuation of 357. Two recitation hours and one laboratory period. (Three term hours.)

***363. Chemistry of India Rubber.—(First Semester.)**

Open to students who have completed courses 351, 352, 359, 360, 357, 358, or their equivalent. The classroom work considers the habitat, collection, coagulation, and properties of the different varieties of crude rubber, both wild and cultivated; also the colloidal nature of rubber; synthetic rubber; the chemical and physical testing of rubber; the different pigments and fillers used in rubber; organic accelerators; rubber substitutes; reclaim rubber; theories of vulcanization; and principles of compounding. One recitation and two laboratory periods. (Three term hours.)

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

Continuation of 363. One recitation and two laboratory periods. (Three term hours.)

***367. Organic Chemistry.—(First Semester.)**

Open to those who have completed 358 or its equivalent. In this course the various derivatives of benzene are studied, and the typical syntheses of the various groups are performed. Two recitations and one laboratory period. (Three term hours.)

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

A continuation of 367. The laboratory work of this semester includes some qualitative analysis of organic compounds, and the determination of the more common organic constituents. Two recitations and one laboratory period. (Three term hours.)

***371. Physical Chemistry. — (Senior year, First Semester.)**

The classroom work is devoted to the study of the gas laws, liquids, solids, and properties of solution, from a physical standpoint. Two recitations and one laboratory period. (Three term hours.)

*Open only to juniors and seniors.

- *372. Physical Chemistry.—(Second Semester.)**
Continuation of 371. Two recitations and one laboratory period. (Three term hours.)
- 621. Organic Chemistry.—(First Semester.)**
For description look under Chemistry in the Curtis School of Home Economics. Two recitations and two laboratory periods. (Four term hours.)
- 622. Household Chemistry.—(Second Semester.)**
Continuation of 621. Two recitations and two laboratory periods. (Four term hours.)
- 741. Inorganic Chemistry.—(First Semester.)**
For description look under Chemistry in the College of Engineering.
- 742. Inorganic Chemistry.—(Second Semester.)**
Continuation of 741.
- 744. Metallurgy.—(Second Semester.)**
For description look under Chemistry in the College of Engineering. (Three term hours.)

Chemical Course

FRESHMAN YEAR

	Term Hrs. each Semester
Gen. Chem. 351 and 352.....	7
Math.	4
Mod. Lang.	3 or 4
Physical Tr.	2

SOPHOMORE YEAR

	Term Hrs. each Semester
Quan. Anal.	4
Biol.	4
Math.	4 or 5
Mod. Lang.	3
Physical Tr.	2
English	3

JUNIOR YEAR

Org. Chem.	3
Physics	4
Electives.	

SENIOR YEAR

Organic Chemistry	3
Physical Chemistry	3
Electives.	

*Open only to juniors and seniors.

BIOLOGY

PROFESSOR PLOWMAN
ASSISTANT-PROFESSOR ALLEN
MISS FRIEDLANDER
MR. FOX

Major: Thirty-two semester hours. The following courses must be included: 401, 402, 403, 404, 407 or 409, 408 or 410, 419 and 420.

Minor requirements are stated on page 47.

Students who wish to major in this department must carry Biology 401-402 as the first-year science. Pre-medical students will be obliged to take both Biology 401-402 and Chemistry 353-354 in the first year, for combination with A-grade medical schools.

401-402. General Biology.—(Both Semesters.) Four hours. Two lectures and two laboratory sessions per week.

A study of parallel groups of the more primitive 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.

Note:—No credit will be allowed for less than the entire year in General Biology.

Courses 401 and 402 are required as prerequisites for all other courses in this department, except 413-414, 415-416, 418, and 430.

403. Vertebrate Zoology.—(First Semester.) Four hours. Two or three recitations and four to six hours of laboratory work per week. Required of pre-medical students.

Comparative studies of structures, life histories, and fundamental life processes of a few types of vertebrate animals. Prerequisite, 401-402.

404. Vertebrate Embryology.—(Second Semester.) Four hours. Two or three recitations and four to six hours' laboratory work per week. Required of pre-medical students.

Comparative studies of early developmental stages in vertebrate animals. Prerequisite, 401-402.

405. **Organic Evolution.—(First Semester.)** Three hours.
Three recitations, with reference reading and reports.

A survey of the history and applications of the doctrine of organic evolution.

Prerequisite, 401-402.

406. **Heredity and Thremmatology.—(Second Semester.)**
Three hours. Recitations, lectures, and reference reading.

A study of the principles of heredity and breeding, and some of the problems of human eugenics. Prerequisite, 401-402. (Omitted, 1922-1923.)

- 407-408. **Human Physiology.—(Both Semesters.)** Three hours.

Three recitations per week. Men's course. 1922-1923 and alternate years.

A detailed study of the human mechanism and its functioning. A fair knowledge of physics and chemistry will be found highly essential in the work of this course. Open to college men only. Prerequisite, 401-402.

- 409-410. **Human Physiology.—(Both Semesters.)** Three hours.

Three recitations per week. Women's course. 1921-1922 and alternate years. Required in Curtis School. Similar to 407-408, but especially adapted to the needs of college women. Prerequisite, 401-402.

- *411-412. **Histology.—(Both Semesters.)** Two hours.

A study of the minute structure of animals and plants. General laboratory technique, and methods of preparation of materials for study.

Prerequisite, 403-404.

- 413-414. **Human Biology.—(Both Semesters.)** Two hours.

Recitations, lectures, laboratory work and reference reading, two hours per week. A study of the human mechanism, considering its essential internal processes and broader environmental relationships,

*Open only to juniors and seniors.

with special reference to personal health and fitness for the task of efficient living. Required of all sophomore men, candidates for the A. B. degree, except such as elect to take Physiology 407-408.

- 415-416. **Human Biology.—(Both Semesters.)** Two hours.
Similar to 413-414, but especially adapted to meet the needs of college women. Required of all sophomore women, candidates for the A. B. degree, except such as elect to take Physiology 409-410.
417. **Economic Botany.—(First Semester.)** Four hours.
Two or three recitations and three to five hours' laboratory work per week. A study of the structure, physiology, and economic importance of selected types of vascular plants, particularly such as supply fibers, foods, drugs, and timber. Prerequisite, 401-402.
418. **Conservation.—(Second Semester.)** Two hours.
Recitations and lectures. A study of natural resources.
- 419-420. **Bacteriology.—(Both Semesters.)** Four hours.
Two lectures and about six hours of laboratory work per week.
A study of the history and growth of bacteriology, the relations of bacteria to man, laboratory technique, and the elements of pathology. Prerequisite, 401-402.
421. **History of Biology.—(First Semester.)** Two hours.
(Omitted, 1922-1923.)
422. **Sanitation and Public Health.—(Second Semester.)**
Three hours. Prerequisite, 419.
- 423-424. **Biological Problems.—(Both Semesters.)** Two to four hours. Thesis course. Seniors only.
- 425-426. **General Entomology.—(Both Semesters.)** Three hours. One lecture and two laboratory sessions per week. Field work substituted for part of the laboratory work, in season. Classification, structure, life histories, and economic importance of insects. Prerequisite; 401-402.
1922-1923, and alternate years.

- 427-428. **Field Biology.—(Both Semesters.)** Three hours.
Lectures, laboratory and field work.
A study of the physiographical, physical, and chemical environment, and the effects upon the distribution of living things, including a biological survey of the region. Prerequisite, 401-402.
1922-1923, and alternate years.
430. **Field Ornithology.—(Second Semester.)** Three hours.
One lecture, one laboratory period, and one field excursion each week. Identification, habits, migrations, and songs of our common birds.
Open to all college students, but size of class limited.
1921-1922 and alternate years.
- 431-432. **Biology Seminar.—(Both Semesters.)**
One session per week, for the consideration of special topics. Open to students majoring in Biology, and to others specially interested in this field.
With or without credit. Required of juniors and seniors majoring in this department; elective for others.
434. **College Botany.—(Second Semester.)** Three hours.
A study of the growth, structure, distribution, and classification of common flowering plants.
Two recitations and one laboratory session per week.
Open to all college students, and especially adapted to the needs of prospective teachers, and of others interested in nature study.
771. **Hygiene and Sanitation.**
For students in co-operative engineering courses.
For description see under Biology in the College of Engineering and Commerce.

PHYSICAL EDUCATION

MR. SEFTON, DIRECTOR
MR. SAYGER
MISS DUNCKLEY

Aims: Physical education is conducted under the direct supervision of experienced physical directors, who are members of the college faculty.

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

A thoro physical and medical 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.

During the fall and spring months there are outdoor exercises and games at Buchtel Field; during the winter months the time is given up to boxing, wrestling, basketball, apparatus work, wand, dumb-bell and swinging club drills. In addition a lecture and recitation class is held on the history of Physical Education, the benefits derived from gymnastics and the theory of baseball, football, basketball and track.

These exercises are designed to bring about the erect carriage of the body, the development and strengthening of the muscular, circulatory and respiratory systems, and the maintenance of general good health and bodily vigor.

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

A six-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 4,000 spectators.

PHYSICAL TRAINING FOR MEN

Requirements: All freshman and sophomore men are required to take two hours of physical training each week as a part of the combined course in Military and Physical

Training. In addition, all candidates for the A. B. degree must take the course in Human Biology 413-414, two hours a week for a year, unless they elect Physiology 407-408.

Intercollegiate Sports: 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.

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

PHYSICAL TRAINING FOR WOMEN

All freshman women are required to take two hours of physical training each week. In addition, all candidates for the A. B. degree must take the course in Human Biology 415-416, two hours a week for a year, unless they elect Physiology 409-410.

MILITARY SCIENCE AND TACTICS RESERVE OFFICERS' TRAINING CORPS

CAPTAIN GLEN H. ANDERSON, PROFESSOR
FIRST LIEUTENANT CHARLES R. SMITH, ASSISTANT-PROFESSOR
FIRST LIEUTENANT KENTON P. COOLEY, ASSISTANT-PROFESSOR
MASTER SERGEANT HENRY METZGER, INSTRUCTOR
FIRST SERGEANT ROY C. OLSON, INSTRUCTOR

In 1919 the U. S. Government established at the University of Akron a unit of the Reserve Officers' Training Corps. This unit is the same as those established at practically all of the large universities and colleges thruout the country. These units were established with the idea of producing trained men for the Officers' Reserve Corps. The instruction is divided into two parts: the basic course of the first two years, compulsory for all freshman and sophomore men who are physically fit; and the advanced course of the last two years, elective for the men who have completed the basic course satisfactorily.

The Basic Course.

All freshman men not physically disqualified must take this course, unless they have been in the federal service

more than one year. The work is given three hours per week for the first two years. In addition, all men of the basic course are required to take two hours' physical training each week under the direction of the Physical Director. Two hours' credit is given each semester for this combined course of military drill and physical training.

Men entering the College of Liberal Arts of the University of Akron with advanced credit from other institutions are not required to take military and physical training: (a) if they have been two years in attendance at another institution of collegiate grade, or (b) if they present 48 hours of college credits.

During this basic course no compensation is paid the student by the War Department, but uniforms and equipment are issued for his use. Each student is held responsible for loss or damage to Government property issued to him. Uniforms must be turned in at the completion of each year, or at time of leaving school; they are replaced at the beginning of the next school year.

Basic Course, 3 hours, Freshman Year

Subjects	Theoretical Hours	Practical Hours
Military Courtesy	2	
Infantry Drill Regulations	22	43
Rifle Marksmanship	4	9
Scouting and Patrolling	3	5
Physical Training		8
Total hours per school year.....		31
		65.....96

Basic Course, 3 hours, Sophomore Year

Subjects	Theoretical Hours	Practical Hours
Map Reading and Military Sketching.....	8	16
Automatic Rifle	9	18
Bayonet		
Hand and Rifle Grenade }		
Musketry	8	16
Military Hygiene	2	4
Command and Leadership	4	11
Total hours per school year.....		31
		65.....96

The Advanced Course.

This course consists of five hours per week (three hours' credit per semester) during the junior and senior years.

It is open to all students who have satisfactorily completed the basic course, provided they have been selected by the President of the University and the Professor of Military Science and Tactics. During this course the Government not only furnishes uniform and equipment, but also allows commutation of subsistence, which varies from time to time, at present being \$16.50 per month. Attendance at one summer camp of not more than six weeks' duration is required; for this attendance pay at the rate of \$1.00 a day is allowed. On the satisfactory completion of the advanced course, the student is commissioned in the Reserve Officers' Training Corps as a Second Lieutenant. Promotions are made as in the Regular Army.

Advanced Course, 5 hours, Junior Year

Subjects	Theoretical Hours	Practical Hours
Browning Machine Gun.....	10	18
Howitzer Company Weapons.....	10	10
Field Engineering	13	51
Military Law		
Rules of Land Warfare }	4	12
Command and Leadership	4	28
Total hours per school year.....		41
		119.....160

Advanced Course, 5 hours, Senior Year

Subjects	Theoretical Hours	Practical Hours
Military History	16	
Administration		6
Minor Tactics	21	85
Command and Leadership	4	28
Total hours per school year.....		41
		119.....160

Standard text-books for each year's instruction are on sale at the bookstore.

Prerequisites for the advanced course are successful completion of the basic course, and selection by the President of the University and the Professor of Military Science and Tactics.

Either basic or advanced course, once entered upon, must be completed as a prerequisite for graduation.

Instruction consists of theoretical classroom work with proper preparation of subjects for recitations, and prac-

tical work either indoors or out, putting into execution the lessons learned in the classroom. The facilities of the basic as well as the advanced course should be utilized to the fullest extent, so that our Reserve Corps of Officers may be strengthened by trained college graduates.

Summer Camps.

A summer camp is held each year for the benefit of those students who desire to attend. One camp of six weeks' duration is required of all members of the advanced course. The next camp will be held at Camp Knox, Kentucky, about twenty-five miles from Louisville. Attendance at the summer camp is not compulsory for students taking the basic course; but to those who attend, the Government pays mileage from their homes to the Camp and return, at the rate of five cents per mile. All clothing, equipment, and subsistence are furnished at the Camp at no expense to the student. Athletics, hops, and other forms of social amusement play a part in the camps, as well as shooting on the rifle range, troop maneuvers, etc. Those desiring to attend should signify their intention at the completion of the first semester so that proper arrangements may be made for them at the Camp.

MUSIC

FRANCESCO DE LEONE, DIRECTOR

The work in Music is open to election by members of all four college classes. It includes (a) a recitation course in the Study of Music, meeting twice a week thru the year, and (b) participation in Glee Club or Orchestra, two hours each week. Two hours' credit each semester is given for this combined course. Ordinarily a student must take both the Study of Music and either Glee Club or Orchestra in order to receive any credit. However, the following exceptions are made:

(1). Special students may be admitted to the Study of Music, their participation in Glee Club and Orchestra to be left to the discretion of the instructor, but in all such cases the regular requirements for college entrance must be satisfied.

(2). Students may elect Glee Club or Orchestra alone without credit, but are subject to exclusion from further participation if absent more than twice in any semester.

(3). If a student in the Study of Music is debarred from Glee Club or Orchestra by the instructor, he shall receive one and one-half ($1\frac{1}{2}$) hours' credit per semester.

(4). Students who already have received credit for the Study of Music shall receive one-half ($\frac{1}{2}$) hour's credit per semester for Glee Club or Orchestra.

In no case shall the total credit for Music exceed seven (7) semester hours.

All students desiring to participate in the classroom work in Music, or in Orchestra or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester.

The Study of Music.—(Both Semesters.)

Two hours' credit each semester if taken in connection with Glee Club or Orchestra.

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

This course is carried on as class-room work and is chosen from the following subjects: rudiments, theory of music and elementary harmony, thorough bass, ear training, first year history of music, biographical history of music, musical appreciation—study of operas, etc.

Men's Glee Club.—(Both Semesters.)

Women's Glee Club.—(Both Semesters.)

Orchestra.—(Both Semesters.)

FRESHMAN LECTURES

These lectures, which all freshmen are required to attend, are given once a week thru the first semester in order to help the freshman start right in his college life. They are given by members of the faculty and are on such topics as How to Study, The Privilege and Responsibility of Being a College Student, The Honor System, What Is a Liberal Education? The Value of Good English, Our History, Traditions, and Customs, The Use of Books, and How to Use the Library.

One half-hour credit is given.

COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., DEAN

GENERAL INFORMATION

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

In 1921 the Department of Commerce and Administration became a department of the Engineering College and the name of the latter was changed to the College of Engineering and Commerce.

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

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

Candidates for admission are expected to spend the summer preceding their entrance at continuous work on a job provided by the University. This probationary period affords the student an opportunity to test his fitness

and liking for the course, and demonstrates his ability to satisfy his employer. Candidates who have definitely decided to take the course and who can present satisfactory evidence of their ability to do the outside work may be excused during the 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, the 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.

THE SEQUENCE OF COURSES

The profession of engineering can be divided into two parts: art and science. Engineering art includes that part of the work which requires manual as well as mental training and is taught by means of practice work in commercial industries, in drawing, surveying, and different engineering laboratory courses. Engineering science includes all theory underlying good engineering practice, a few examples of which are mathematics, chemistry, physics, strength of materials, and applied mechanics.

The curriculum is so arranged that the engineering student starts his college work with training in engineering art and progresses to the study of engineering science. He is thus enabled to approach his theoretical subjects with a proper realization of their importance and applications.

INDUSTRIAL ENGINEERING

A co-operative course has been inaugurated for the student who wants to take up the business side of engineering activity. It comprises the essentials of engineering and a thorough course in business training. The work covers five years and leads to the degree, Industrial Engineer. This plan takes the place of the so-called Manufacturing Production course. Students entered in the latter may continue their work as originally planned, or take up the Industrial Engineering course, receiving advanced standing for work already completed.

COMMERCE AND ADMINISTRATION

For those desiring a purely commercial training, there is a full time course covering four years. This course is open to both men and women and leads to the degree, Bachelor of Science in Commerce and Administration.

SECRETARIAL COURSE

The Secretarial Course is open to both men and women. It prepares especially for private secretarial work. To those completing the first two years, a certificate of proficiency will be given. The degree, Bachelor of Secretarial Science, will be granted to those who satisfactorily complete the four years' work. Students will be required to attain a high degree of proficiency in typewriting and shorthand. This latter work must be taken outside the regular college course.

SHOP WORK

The Dean of the College of Engineering and Commerce 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 are co-ordinated by technically trained men experienced in engineering practice. Thruout the five years of University work they 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

The primary object of requiring outside work is to give the student practical experience and not to enable him to earn money. In most cases the student's earnings are not sufficient to pay his expenses.

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 College of Engineering and Commerce. Students are paid only for the time actually employed, and receive their wages direct, as does any other employee.

ADMISSION

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

HONORABLE DISMISSAL

Engineering students desiring to transfer to another institution or to another college in the University of Akron are required to present a letter of honorable dismissal from the Dean of the College of Engineering and Commerce. To be entitled to such a letter, the student must

notify the Dean's office and also his employer of his intention to leave, at least one week before he withdraws.

ENTRANCE REQUIREMENTS

The following units must be presented without conditions:

Commercial and Secretarial Courses

English	3 units
Mathematics (Algebra 1; Plane Geometry 1).....	2 units
Foreign Language	2 units
History	1 unit
Science	1 unit
Elective	6 units

Co-operative Engineering Courses

English	3 units
Mathematics (including Solid Geometry).....	2½ units
History	1 unit
Science	1 unit
Elective	7½ units

COURSES OF STUDY

The courses of study given in the College of Engineering and Commerce 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.

DEGREES

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

FEEES

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 \$10.50 per semester, covering registration, incidentals, and student activity fee. If not paid within one week after registration, the fee is \$13.00 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 \$40.00 for the first semester, \$40.00 for the second semester, and \$20.00 for the summer term, in addition to the incidental fee of \$10.50 per semester. If not paid within one week after registration the tuition is \$45.00 each for the first and second semesters, the incidental fee, \$13.00, and the tuition for the summer term, \$22.50.

The tuition for all students attending college full time is \$65.00 per semester, in addition to the incidental fee of \$10.50 per semester. If not paid before October 2, 1922, of the first semester or February 20, 1923, of the second semester, the tuition fee is \$70.00 per semester and the incidental fee is \$13.00.

LABORATORY FEES

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

Deposit for breakage in all courses, per semester.....	\$5.00
Chemistry 741, 742, per semester.....	3.00
Metallurgy 744, per semester.....	4.00
Elementary Mechanics, 781, 782, per semester.....	2.00
Physics 783, 784, per semester.....	2.00
Surveying 809-810, per semester.....	2.00
Materials Laboratory, per semester.....	2.00
Cement Laboratory, per semester.....	2.00
Mechanical Laboratory, per semester.....	3.00
Electrical Laboratory, per semester.....	3.00
Railroads	1.00

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

ESTIMATED EXPENSE OF FRESHMAN YEAR**First Semester**

	Resident	Non-Resident
Tuition	Free	\$40.00
Fees	\$19.00	19.00
Books and Drawing Instruments	40.00	40.00
	\$59.00	\$99.00

Second Semester

	Resident	Non-Resident
Tuition	Free	\$40.00
Fees	\$12.00	12.00
Books	8.00	8.00
	\$20.00	\$60.00

Summer Term

	Resident	Non-Resident
Tuition	Free	\$20.00
Fees	2.00	2.00
Books	5.00	5.00
	\$7.00	\$27.00

Board and room can be obtained for \$10.00 per week.

REGISTRATION

Full time students will register on September 18 and 19, 1922. Co-operative students in section one will register on September 18, 1922, and those in section two on October 2, 1922. 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.

After the student has classified, a charge of \$1.00 will be made for any change in his program of studies.

CIVIL ENGINEERING
1922-1923

FRESHMAN YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Trigonometry 727.....	6	Algebra 725	6
Coordination 801	2	Coordination 802	2
Drawing 811	4	Drawing 822	4
Elementary Mechanics 781	4	Elementary Mechanics 782	4
Engineering Lab. 807.....	4	Engineering Lab. 808.....	4

Summer Term

Surveying 810	16
Analytic Geometry 728	6

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Analytic Geometry 729.....	6	Calculus 733	6
Physics 783	6	Physics 784	6
Descriptive Geometry 812	4	Steam Power Plants 848-1	5
Coordination 803	2	Coordination 804	2

Summer Term

Calculus 733	6
Railroads 853	8
Roofs and Bridges 851	8

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Calculus 731	6	Analytic Mechanics 842.....	6
English Composition 701.....	4	English Composition 702.....	4
Strength of Materials 837	6	Steel Design 874.....	6
Materials Laboratory 817	4	Modern Language	6
Modern Language	6		

Summer Term

Hydraulics 843-1	10
Reinforced Concrete 873	8
Cement Testing 861	4

JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Chemistry 741	8	Chemistry 742	8
Modern Language	6	Modern Language	6
Concrete Design 879.....	6	Water Supply 882.....	6
D. C. Electricity 867.....	6	A. C. Electricity 868.....	6
D. C. Laboratory 869.....	4	A. C. Laboratory 870.....	4

90 COLLEGE OF ENGINEERING AND COMMERCE

Summer Term

Geology 772	6
Hygiene and Sanitation 771	16

SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
English Literature 711.....	2	English Literature 712.....	2
Modern Language	6	Modern Language	6
Sewerage 881	8	Bookkeeping 1027½.....	4
Engineering Design 883.....	2	Business Organ. 1037½.....	4
Economics 737	6	Metallurgy 744	6
		Engineering Design 884.....	2
		Economics 738	6

MECHANICAL ENGINEERING

1922-1923

FRESHMAN YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Trigonometry 727	6	Algebra 725	6
Coordination 801	2	Coordination 802	2
Drawing 811	4	Drawing 822	4
Elementary Mechanics 781	4	Elementary Mechanics 782	4
Engineering Lab. 807	4	Engineering Lab. 808.....	4

Summer Term

Analytic Geometry 728	6
Machine Drawing 823	16

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Analytic Geometry 729.....	6	Calculus 732	6
Physics 783	6	Physics 784	6
Descriptive Geometry 812	4	Steam Power Plants 848-1	5

Summer Term

Calculus 733	6
Steam Power Plants 875-2	16

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Calculus 731	6	Analytic Mechanics 842.....	6
Strength of Materials 837	6	Mechanism 844	5
Materials Laboratory 817	4	Mechanism Drawing 846	4
D. C. Electricity 867.....	6	A. C. Electricity 868.....	6
D. C. Laboratory 869.....	4	A. C. Laboratory 870.....	4

Summer Term

Machine Design 845	10
Machine Shop Tools 865	6
Engineering Laboratory 858-2	6

JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Chemistry 741	8	Chemistry 742	8
Economics 737	6	Economics 738	6
English Composition 701... 4		English Composition 702... 4	
Modern Language	6	Modern Language	6
Machine Design 877..... 4		Metallurgy 744	6
		Hydraulics 843-1	5

Summer Term

Hygiene and Sanitation 771.....	16
Engineering Laboratory 859-3	6

SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
English Literature 711..... 2		English Literature 712..... 2	
Hydraulics 849-2	5	Business Organ. 1037½..... 4	
Production Engineering 885	3	Hydraulics 850-3	5
Thermodynamics 871-1 5		Steam Power Plant 876-3... 4	
Steam Power Plant 875-2... 5		Thermodynamics 872-2 5	
Mechanical Engineering Problems 878	4	Thesis	6

ELECTRICAL ENGINEERING

1922-1923

FRESHMAN YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Trigonometry 727	6	Algebra 725	6
Coordination 801	2	Coordination 802	2
Drawing 811	4	Drawing 822	4
Elementary Mechanics 781	4	Elementary Mechanics 782	4
Engineering Lab. 807..... 4		Engineering Lab. 808..... 4	

Summer Term

Analytic Geometry 728	6
Machine Drawing 823	16

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Analytic Geometry 729	6	Calculus 732	6
Physics 783	6	Physics 784	6
Descriptive Geometry 812	4	Steam Power Plants 848-1	5

Summer Term

Calculus 733	6
Hygiene and Sanitation 771	16

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Calculus 731	6	Analytic Mechanics 842	6
English Composition 701	4	English Composition 702	4
Modern Language	6	Modern Language	6
D. C. Theory 867	6	A. C. Theory 868	6
D. C. Laboratory 869	4	A. C. Laboratory 870	4

Summer Term

Machine Shop Tools 865	6
Electrical Laboratory 893	16

JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Chemistry 741	8	Chemistry 742	8
Hydraulics 849-2	2	Metallurgy 744	6
Modern Language	6	Modern Language	6
Strength of Materials 837	6	Advanced E. E. Theory	
Materials Laboratory 817	4	894	6
Advanced E. E. Theory		Wiring for Light and	
891	6	Power 892	2

Summer Term

Electric Power Plants including inspection trips 898	22
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SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
English Literature 711	2	English Literature 712	2
Electric Railways 897	3	Business Organ. 1037½	4
Thermodynamics 871-1	5	Bookkeeping 1027½	4
Special Problems 899	4	Special Problems 900	6
Economics 737	6	Economics 738	6
Electric Power Plants 896	2	Electric Power Transmis- sion 895	3

INDUSTRIAL ENGINEERING

1922-1923

FRESHMAN YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Bookkeeping and Ac- counting 1027½	6	Bookkeeping and Ac- counting 1028½	6
Elementary Mechanics 781	4	Elementary Mechanics 782	4
Drawing 811	4	Drawing 822	4
Trigonometry 727	6	Algebra 725	6
English Composition 701	4	English Composition 702	4
Coordination 801	2	Coordination 802	2

Summer Term

Analytic Geometry 728	6
Machine Drawing 824	16

SOPHOMORE YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Physics 783	6	Physics 784	6
Economics 737	6	Economics 738	6
Coordination 803	2	Coordination 804	2

Summer Term

Industrial and Commercial Geography 1019½	11
Economic Development of England and the United States 1021½	11

PRE-JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Military Training	2	Military Training	2
Modern Language	6	Modern Language	6
Chemistry 741	8	Chemistry 742	8
Money and Banking 1045½	6	Statistics 1047½	6

Summer Term

Railroads and Traffic Problems 1049½	22
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JUNIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Modern Language	6	Modern Language	6
D. C. Theory 867	6	A. C. Theory 868	6
D. C. Laboratory 869	2	A. C. Laboratory 870	2
English Literature 711	2	English Literature 712	2
Industries and Resources of Akron 1057½	2	Industries and Resources of Akron 1058½	2
Materials Laboratory 817	4		

Summer Term

Markets, Domestic Commerce 1043½ 22

SENIOR YEAR

First Semester	Exercises per alternate period	Second Semester	Exercises per alternate period
Elementary Law 1039½	4	Business Law 1040½	6
Accounting Problems and Cost Accounting 1051½	6	Accounting Problems and Cost Accounting 1052½	6
Business and Industrial Problems 1055½	2	Business and Industrial Problems 1056½	2
Business Administration 1037½	6	Business Administration 1038½	6
Business Finance 1035½	6	Thesis	4
Thesis	4		

COMMERCE AND ADMINISTRATION

1922-1923

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	*Military Training	2
Physical Training	2	Physical Training	2
Freshman Rhetoric 51	3	Freshman Rhetoric 52	3
Physics, Chemistry, or Biology	4	Physics, Chemistry, or Biology	4
Modern Language	4	Modern Language	4
Industrial and Commer- cial Geography 1019	3	Economic Development of the United States 1021	3
Electives	2	Electives	2

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	*Military Training	2
*Physical Training	2	*Physical Training	2
Bookkeeping and Ac- counting 1027	3	Bookkeeping and Ac- counting 1028	3
Economics 1059	3	Economics 1060	3
Modern Language	3	Modern Language	3
History or Government	3	History or Government	3
Industries and Resources of Akron 1057	2	Money and Banking 1045	2
Electives	2	Electives	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 65	3	English 66	3
Elementary Law 1039	3	Business Law 1040	3
Business Finance 1035	4	Railroad and Traffic Problems 1049	4
Psychology	3	Psychology	3
Electives	5	Statistics 1047	3
		Electives	5

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Government or Sociology	3	Government or Sociology	3
Accounting Problems and Cost Accounting 1051.....	2	Accounting Problems and Cost Accounting 1052.....	2
Foreign Commerce 1053.....	2	Business and Industrial Problems	2
Electives	6	Business Administration.....	3
Thesis	2	Thesis	2
		<i>Adv. 1060</i>	<i>2</i>

SECRETARIAL COURSE

1922-23

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	*Military Training	2
Physical Training	2	Physical Training	2
Freshman Rhetoric 51.....	3	Freshman Rhetoric 52.....	3
Secretarial Duties and Ethics 1023	3	Business Mathematics, Filing and Charting 1025	3
Chemistry or Biology	4	Chemistry or Biology	4
Industrial and Commer- cial Geography 1019.....	3	Economic Development of United States 1021.....	3
Hygiene	1	Hygiene	1

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	*Military Training	2
Physical Training	2	Physical Training	2
Bookkeeping and Ac- counting 1027	3	Bookkeeping and Ac- counting 1028	3
Economics 1059	3	Economics 1060	3
English	3	English	3
Spanish	4	Spanish	4

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 65	3	English 66	3
History or Government.....	3	History or Government.....	3
Index and Filing 1031.....	3	Business Correspondence and Secretarial Prac- tice 1033	3
Psychology	3	Psychology	3
Spanish	3	Spanish	3
Elective	3	Elective	3

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Business Finance 1035.....	3	Business Administra- tion 1037	3
Office Practice 1041.....	3	Office Practice 1042.....	3
History or Government.....	3	History or Government.....	3
Sociology	3	Sociology	3
Thesis	2	Business Law 1040.....	3
Elective	4	Elective	4

*For men only.

DEPARTMENTS OF INSTRUCTION

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

English	701-712
Spanish	713-716
French	717-724
Mathematics	725-736
Economics and Political Science	737-740
Chemistry	741-770
Biology	771-779
Physics and Mechanics	780-790
Engineering Subjects	801-900
Commerce Subjects	1001-1099

SUBJECTS OF INSTRUCTION

Numbers 807-1, 843-1, 849-2, etc., indicate the sequence of the respective group of courses.

ENGLISH**701. English Composition.**

Study of correct and forceful that arrangement in sentences, paragraphs, and long compositions. Strict insistence upon correctness in punctuation, spelling and grammar.

702. English Composition.

Continuation of Course 701 with study of exposition of technical subjects.

711-712. Literature.

The chief purpose of this course is to give the student such information and training as will enable him to know what good literature is and to read it with greater intelligence and keener delight. Much reading is required, and still more is recommended.

SPANISH**713. Spanish**

Elementary Spanish Grammar and selected readers. As soon as practicable, the students will be given work of definite commercial value in translation and composition.

714. Continuation of 713.

715. Continuation of 714.

716. Continuation of 715.

FRENCH**717. French**

Elementary French Grammar. Practice in pronunciation, reading, dictation, and composition.

718. Continuation of 717.

719. Reading of French technical books and journals.

720. Continuation of 719.

721. Continuation of 720.

722. Continuation of 721.

MATHEMATICS**725. College Algebra**

A thorough review of elementary algebra, exponents, radicals, quadratics, simultaneous equations, progressions, ratio, proportion and variation, logarithms, binomial theorem, and solution of equations of higher degrees.

727. Plane Trigonometry

The use of the protractor, tables, and slide rule in solving problems involving trigonometric functions; identities, radians; trigonometric equations; inverse functions; oblique triangles.

728. Plane and Solid Analytic Geometry

The study of equations and their loci; transformation of co-ordinates; the straight line, circle, parabola, ellipse and hyperbola, higher plane curves, polar curves, empirical curves; rectangular and polar co-ordinates of space; special surfaces.

729. Continuation of 728.

731. Integral Calculus.

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

732. Differential Calculus.

The work includes theory of limits, differentiations, series, expansion of functions, indeterminate forms, max-

ima and minima of functions of one or more variables, partial derivatives, curvatures, tangents, and normals.

733. Continuation of 731, including applications of the calculus to lengths of arcs, areas, volumes, moments of inertia, radius of gyration, and other problems of mechanics.

737. **Economics.**

A consideration of the fundamental concepts of economics; definition of terms, theory of value, production, consumption, distribution, etc.

738. **Economics.**

A study of practical economic problems such as wages, interest, rent, currency, banking, taxation, trusts, tariff, and socialism.

CHEMISTRY

741. **Chemistry.**

A study of the newer theories of chemistry with special attention to their application to commercial problems.

742. **Chemistry.**

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 to cover a large field. He is thrown upon his own resources as much as possible and taught how to attack a problem.

744. **Metallurgy.**

The general metallurgy of common metals with special emphasis on iron and steel.

A review of the properties of metals and ores and the principles underlying the present practice of metallurgy.

BIOLOGY

771. **Hygiene and Sanitation.**

A four weeks' intensive course.

Two hours of lecture or recitation, three hours of laboratory work, and two hours of assigned reading, daily.

A rapid survey of the fundamental laws and principles of biology, followed by a more detailed study of selected problems in nutrition, personal hygiene, first aid, sanitation, and public health.

GEOLOGY

772. Engineering Geology.

A survey of the essential facts of historical, dynamic, and structural geology, followed by a more detailed consideration of those earth features that are of particular interest from the engineering point of view. Economic geology is strongly emphasized throughout the course. Geological map-making and map-reading are prominent features of the laboratory and field work.

PHYSICS.

781. Elementary Mechanics.

A short study of the field of mechanics, and an intensive study of systems of parallel forces and simple machines and engineering problems based thereon. Four exercises per week, two recitations and two laboratory periods. Required of all freshmen.

782. Elementary Mechanics.

A continuation of 781 and discussion of non-parallel forces, force polygons, and solution of problems based on this principle. Study of simple frames and calculation of stresses and compression by graphical and analytical methods. Four exercises per week, two recitations and two laboratory periods. Required of all freshmen.

783. General Physics.

The work includes dynamics, 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, with necessary laboratory work. Five exercises per week, three recitations and two laboratory periods. Required of all sophomores.

784. General Physics.

Continuation of 783 covering electricity, magnetism and light. Required of all sophomores.

ENGINEERING

801. Co-ordination.

Discussion of questions arising in students' outside work. Observation sheets, detailed reports, and problems. 802, 803, 804, 805, 806. Continuation of 801.

807. Engineering Laboratory.—(Elementary.)

This course includes instruction and practice in the operation and maintenance of mechanical equipment including furnace and boiler plants, steam and gas engines, and compressors. For practice in pipe fitting, the students will make all necessary connections for steam, water, air and gas.

Exercises covering fundamental principles of electricity and magnetism.

Demonstrations showing use of transit and level.

808. Continuation of 807.

810. Surveying.

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

Tests and adjustments of instruments. Topographic Surveying. Stadia and Plane Table.

811. Elementary Engineering Drawing.

Freehand sketching, lettering and mechanical drawing. The selection and proper use of drawing instruments.

812. Descriptive Geometry.

Projection of points and lines, intersection of planes, projections of solids with practical applications.

817. Materials Laboratory.

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

822. Projection Drawing.

Graphic representation of solids. Isometric and oblique drawing. Standard details of structural shapes, bolts, nuts, screws, etc.

823. Machine Drawing.

Working drawings, technical sketching and drafting room practice.

824. Machine Drawing.

Graphic representation of solids and machine parts. Technical sketching and drafting room practice.

837. Strength of Materials.

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

Theory and design of beams, columns and shafts.

842. Analytic Mechanics.

Kinematics, kinetics and dynamics with numerous problems.

843-1. Hydraulics.

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

844. Mechanism.

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

845. Machine Design.

A study of the fundamental principles involved in the design and operation of machinery with problems in the design of riveted joints, keys and shafting, belting, chains and sprockets, gearing, bearings, couplings, and other machine parts.

846. Mechanism Drawing.

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

848-1. Steam Power Plants.

An elementary course.

Elements and economy of simple and complete steam plants. Laboratory exercises.

Hydraulics.

849-2. Continuation of 843-1.

850-3. Continuation of 849-2.

851. Roofs and Bridges.

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

853. Railroads.

An intensive course in railroad construction and surveying. Includes field and office work in simple, compound and spiral curves.

855. Highways.

Study and design of all hard-surfaced roads, as well as dirt roads; street paving; traffic censuses; testing road materials.

858-2. Engineering Laboratory

The standardization of instruments, the testing of boilers, steam and gas engines, and special tests. Continuation of 808.

859-3. Continuation of 858-2.

860-4. Continuation of 859-3.

861. Cement Testing.

Theory and manufacture; standard laboratory tests of cement, mortar and concrete; experimental investigations.

865. Machine Shop Tools.

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

867. Direct Current Theory.

Principles of electricity and magnetism, electric and magnetic circuits; direct current generators and motors; storage batteries; industrial applications of direct current machinery.

868. Alternating Current Theory.

Alternating electromotive force and current; resistance, inductance and capacity in alternating current circuits,

graphical and analytical treatment; theory of alternating current generators and motors; industrial applications of alternating current machinery.

869. Direct Current Laboratory.

This course includes the various practical tests on direct current machines and supplements the theoretical work given in 867.

870. Alternating Current Laboratory.

This course includes the various practical tests on alternating current machines and supplements the theoretical work given in 868.

871-1. Thermodynamics.

Thermodynamics of gases, saturated vapors and superheated steam.

Application of thermodynamics to engines, compressors and refrigerating machinery.

872-2. Continuation 871-1.

873. Reinforced Concrete.

Recitation, laboratory and design of beams and columns. Text: Taylor and Thompson.

874. Steel Design.

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

875-2. Steam Power Plants.

Problems connected with the design and layout of a complete steam power plant.

876-3. Steam Power Plants.

A study of power plant apparatus and equipment. Preliminary to Power Plant Design 875.

877. Machine Design.

A continuation of Machine Design 845 in which the student makes a complete design of an assigned machine.

878. Mechanical Engineering Problems.

A study of practical engineering problems.

879. Concrete Design.

The design of concrete buildings and structure.

881. Sewerage.

Text: Folwell's Sewerage. Recitations and design.

882. Water Supply.

Text: Folwell's Water Supply. Recitations and design.

883. Engineering Design. Special problems.

884. Continuation of 883.

885. Production Engineering.

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.

891. Advanced Electrical Theory.

Continuation of courses 867 and 868. More thorough study of the construction and the characteristics of operation of electrical machines and appliances. Course includes a large number of suitable problems.

892. Wiring for Light and Power.

Design of typical lighting and power installations to conform to the National Electrical Code and best engineering practice must be preceded by courses 867 to 870 inclusive.

893. Electrical Laboratory.

Continuation of Courses 869 and 870.

894. Advanced E. E. Theory.

Continuation of course 891.

895. Electric Power Transmission.

Systems of transmission and distribution, general requirements, mechanical design, poles, towers, insulators, conductors, erection, control and protection.

896. **Electric Power Plants.**

Location of central and substations; general arrangement of prime movers and auxiliary apparatus for steam-electric and hydro-electric plants; selection of generating units; switch gear, station wiring.

897. **Electric Railways.**

Forces acting on a train; speed-time curves; energy requirements; motor capacity; systems of control; direct versus alternating current; electricity versus steam.

898. **Electric Power Plants.**

Continuation of Course 896 including inspection trips to power plants in this vicinity.

899. **Special Problems.**

Solution of special problems in electrical engineering or thesis.

900. **Special Problems.**

Continuation of Course 899.

COMMERCE

Industrial and Commercial Geography.

1019. Full time.

1019½. Half time.

Growth and factors of commerce and industry; study of the most important industries of the United States; physical features of the world in their relation to the development of commerce and industry; mineral industries and their relation to the development of the state; centers of great industry, transportation, communication; relation of government to industry and trade; foreign commerce of the United States and all other important countries of the world.

Economic Development of the United States.

1021. Full time.

1021½. Half time.

Development of colonial industry with a careful survey of the industrial history of England; early trade restric-

tions; availability of the resources of the United States and their developments; movement of trade and industry in the early history of the country as well as present movements; effect of trade and tariff on industry; labor movements and the development of the labor union; our modern industries and their development.

Secretarial Duties and Ethics.

1023. Full time.

1023½. Half time.

Origin and history of the modern secretary; education and development of the private secretary of the modern business man; what a position as secretary means to the outside world; how to learn the needs of the employer and his friends; the modern office, office appliances and mechanical devices as time savers; the duties of an office manager; wage systems; methods of securing efficiency in the office; welfare work; letter writing; how to handle a caller.

Business Mathematics, Filing and Charting.

1025. Full time.

1025½. Half time.

Short cuts in business mathematics: business forms necessary for the secretary to know; familiarity with interest and annuity tables, present worth and partial payment and insurance rates; making of simple charts and graphs of most of the problems of the business man; filing of office papers, a study of the latest filing systems.

Bookkeeping and Accounting.

1027. Full time.

1027½. Half time.

Science of constructing systematic records of business transactions; study of the double entry bookkeeping; critical examination of the typical factors in capital and revenue accounts; development of forms used in business; forms and records used in different industrial enterprises; many illustrative problems used; partnership and corporation accounting completed. C. P. A. problems used.

1028. Continuation of 1027.

Industrial and Business Economics.

1029. Full time.

1029½. Half time.

A study of the laws of production, exchange, distribution, and consumption, combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Special emphasis laid on the industrial and business side of the economic organization of society.

Indexing and Filing.

1031. Full time.

1031½. Half time.

The modern business office, its filing cases and appliances; a more advanced course in filing for the big office; latest methods for short cuts in filing material; visits to factories and lectures by practical men in charge of filing departments. Various systems for indexing; a practical course for those interested in this character of work.

Business Correspondence and Secretarial Practice.

1033. Full time.

1033½. Half time.

An advanced course in business letter writing; development of business forms necessary to modern business; the modern business letter and report from the business man's side; work of the secretary in making reports and schedules for the office; a practical course to meet the needs of modern business. Problems and visits to offices.

Business Finance.

1035. Full time.

1035½. Half time.

Relation of finance to business; the financial side of business administration; history and origin of financial transactions; introduction to banking practices; work of the banker; stocks and bonds; budgets and financial reports; financial standards, promotion, dividends, and reorganization.

Business Administration.

1037. Full time.

1037½. Half time.

Origin and history of industrial and mercantile establishments; principles of organization; distribution of functions and the control of business; factors accounting for the location of industries; localization; segregation; and integration; scientific management, its development and effect on the business of the modern world; effect of war on business; labor unions and their relation to capital; job analysis; mental tests; latest forms of welfare work.

Elementary Law.

1039. Full time.

1039½. Half time.

The fundamental principles of American jurisprudence; outline and elements of statutory and common law and equity.

Business Law.

1040. Full time.

1040½. Half time.

Introduction to the customs and laws of trade, business, and finance; detailed study of contracts, bills and notes, bailments, agency, partnership, personal and real property; a study of the common carrier, insurance deeds, mortgages, wills, etc. Many cases are studied to show the application of law to business. The case system is used.

Office Practice.

1041. Full time.

1041½. Half time.

A study of the problems that come up in the work of the secretary; laboratory work in the application of the work of an office; practical experience in the offices of the administrative officers of the University; students' work in outside offices of the various industries of the city.

1042. Continuation of 1041.

Markets, Domestic Commerce.

1043. Full time.

1043½. Half time.

Development of the early types of markets; early trade routes; fairs, location of colonial marketing centers; devel-

opment of modern markets and the factors of affecting their development; advertising and sales systems; co-operation, its development and importance; the middleman, his functions and problems; the future of the middleman; location of the wholesale centers of the United States; the retailer, the consumer, and modern problems of the buyer and seller.

Money and Banking.

1045. Full time.

1045½. Half time.

Form and function of currency and credit; state and Federal laws of banking; Federal reserve banking system and its relation to the monetary system of the United States; a brief study of the history of our banking institutions, the fluctuations of the money market, note issue, and the Clearing House; a brief study of the banking systems of foreign countries and a comparison with the Federal Reserve System.

Statistics.

1047. Full time.

1047½. Half time.

Elementary principles of statistics as a means to scientific study and interpretation of the measurable phenomena of economic and social life. A study of characteristics of statistical methods; sources and collections of statistical data: errors and approximation; classification and frequency distribution; averages; index numbers; criteria of association, cause and effect.

Railroads and Traffic Problems.

1049. Full time.

1049½. Half time.

Economic significance of modern development, organization and combination of railway systems; the development of the means of transportation; railway growth and consolidation; problems of railway traffic and rate making; rate theories and practice, legislative control, inland and coastwise commerce of the United States; railway

commissions and public control; Government ownership and its relation to the public.

Accounting Problems and Cost Accounting.

1051. Full time.

1051½. Half time.

An exposition of the utility and methods of cost accounts; the problems, elements, and units of cost of various types of business, sources of cost data; measurement of direct costs; methods of apportioning and distributing overhead expenses; organization of cost systems; presentation and utilization of cost data; studies and reports of cost accounting systems; study of practical problems in local businesses; C. P. A. Problems.

1052. Continuation of 1051.

Foreign Commerce.

1053. Full time.

1053½. Half time.

Development of early commerce and commercial nations; theory of international trade; historic policies, mercantile theory, free trade and protection; volume and character of imports and exports; governmental regulation, consular service, commercial methods and regulations for trade; aids to the development of trade, recent and prospective; position of the United States in the commercial world and our future needs.

Business and Industrial Problems.

1055. Full time.

1055½. Half time.

A study of economical and industrial problems of importance to the business man; antecedents of modern industrialism; the industrial revolution; social control in modern industrialism; pecuniary basis of economic organization; the business cycle; problems of international trade; the railway problem, nature and extent of regulation, rate making, government ownership; the problem of capitalistic monopoly; the study of population, economic insecurity, trade unions, social reform and legal institutions, taxation, and modern problems of business.

1056. Continuation of 1055.

Industries and Resources of Akron.

1057. Full time.

1057½. Half time.

A study of the city of Akron as an industrial and commercial center; its railroads and water communications; the rubber industry, the products manufactured and exported; clay product industry, products and possibilities of the industry; motor truck industry; machine shops; cereal and other important industries; visits to factories; reports on processes.

1058. Continuation of 1057.

Commercial Economics.

1059. Full time.

1059½. Half time.

Purpose and scope of economics, the fundamental concepts in the science of business; land and capital; labor and enterprise; the three fundamental laws; consumption of wealth; value and the consumer, the producer and the trader. A study of the laws of production, exchange, distribution and the consumption of wealth, combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigation.

1060. Continuation of 1058.

MILITARY TRAINING

Military training under the direct supervision of the United States Government is required of all male students physically fit. Men entering the Engineering College are exempt only if they have been two years in attendance at another institution of collegiate grade. Commercial and Secretarial students may complete the required work in two years. It takes three years to complete the basic course on the co-operative or part-time plan.

The advanced course is elective and is open to all who satisfactorily complete the basic course. The work of the Military Department is described in detail under the College of Liberal Arts.

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 has a cafeteria.

Admission

Candidates for unconditional admission must present at least 15 units of secondary school work. No student will be admitted with entrance conditions amounting to more than one unit. Such deficiency must be made up during the freshman year. For general entrance requirements to the University see page 29.

Entrance Requirements

English	3 units
Mathematics	2½ units
*Foreign Language	2 units
History	1 unit
†Physics	1 unit
Elective	5½ units

*Not less than a full unit in the beginning of any language will be accepted toward this requirement.

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

Course of Study

The course in Home Economics requires four years of regular university work and is planned to meet the practical needs of women students. It combines a thoro training in those branches of science essential to intelligent home management with the broadest possible cultural

education and forms a basis for those who wish to specialize in Home Economics or other lines of work. Three years in Curtis School and two years in Teachers College provide training for those who may wish to become teachers of the subject. Besides the major in general home economics, a major in bacteriology may be chosen at the beginning of the junior year.

**OUTLINE OF REQUIRED STUDIES
FOR A MAJOR IN GENERAL HOME ECONOMICS**

§24 hours of Science, 36 or 38 hours of purely Home Economics, and 21 hours required minors.

FIRST YEAR

First Semester	Term hrs.	Second Semester	Term hrs.
Biology 401	4	Biology 402	4
English 51	3	English 52	3
*Modern Language	3 or 4	*Modern Language	3 or 4
Textiles 603	2	Textiles 604	2
Principles of Art 601.....	2	Designing 602	2
Physical Training	1	Physical Training	1
		Current Events	1
	15 or 16		16 or 17

SECOND YEAR

Chemistry 353	4	Chemistry 354	4
†Physiology 409	3	†Physiology 410	3
*Modern Language	3	*Modern Language	3
Art 625	2	House Planning 626.....	2
English 65, 69 or 75.....	3	English 66, 70 or 76.....	3
Drafting and Designing....	1	Fancy Stitches	1
	16		16

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

†Offered 1923-24 and alternate years.

§Science: 16 hours besides Chemistry 353-4. Home Economics: 36 or 38 hours from the above. Minors: English 6; Language 6; History 6; Public Speaking 3.

THIRD YEAR

Chemistry of Foods or Chemistry 621	3 or 4	Chemistry of Foods or Chemistry 622	3 or 4
†Physics 331	4	†Physics 332	4
Foods 605	4	Foods 606	4
Dress 609	3	House 616	3
History 271, 275 or 277.....	3	History 272, 276 or 278.....	3
	<hr/>		<hr/>
	17 or 18		17 or 18

FOURTH YEAR

Dietetics 613	4	Seminar 618	2
Sociology 213	3	Sociology 214	3
Bacteriology and Sani- tation 419	4	Bacteriology and Sani- tation 420	4
Psychology 201	3	Psychology 202	3
Public Speaking	3	Table and Meal Service 632	2
	<hr/>		<hr/>
	17		14

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

Major in Bacteriology

For a major in bacteriology the course includes in addition to the strictly home economics courses, animal histology, pathogenic bacteriology, and laboratory work in the Public Health Department of the City.

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 five-year combination courses degrees may be gained from both the School of Home Economics, and either the College of Liberal Arts or the Teachers College, but candidates for such combination courses must announce their intention at the end of the junior year.

Fees

The regular incidental and student activity fee of \$10.50 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 \$65.00 per semester. A graduation fee of five dollars is charged all graduates.

†If not offered as entrance.

Laboratory Fees

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

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

Biology 401, 402, 409, 410	\$2.50
Bacteriology, per semester	4.00
Bacteriology, deposit for breakage.....	5.00
Foods, per semester.....	7.50
Dietetics, per semester.....	7.50
Table and Meal Service, per semester.....	6.00

NOTE.—Students provide their own materials in the following courses: Principles of Art, Designing, Textiles, House Planning, Art, Dress, Seminar, Drafting and Designing, and Fancy Stitches.

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 49-82 of general catalog.

HOME ECONOMICS

PROFESSOR STIMMEL
MISS STINSON

603 and 604. Textiles.—(Both Semesters.)

(Two credit hours each semester.) One lecture and one laboratory period.

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, and chemistry of textiles.

605 and 606. Foods.—(Both Semesters.)

(Four credit hours each semester.) Two lectures and three laboratory periods.

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

610. Dress.—(First Semester.)

(Three credit hours.)

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

Housewives' Class.—(First Semester.)

(One credit hour.) (1:00-5:00.)

Planning, buying and serving of balanced meals, and computing costs.

Housewives' Class.—(Second Semester.)

(Two credit hours.) (1:00-7:00.)

Same as Table and Meal Service 632.

613. Dietetics.—(First Semester.)

(Four credit hours.) Two recitations and two laboratory periods.

Prerequisites, Foods, 605-6, Physiology 407-8, Household Chemistry 621-2. A study of the chemical, physical and physiological value of the nutrients Dietary standards, infant and invalid cookery.

616. The House.—(Second Semester.)

(Three credit hours.)

Prerequisite, Principles of Art, Designing, Textiles, House Planning and Art. 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.

601. **Principles of Art.—(First Semester.)**
 (Two credit hours.)
 Same as Art 1251, Teachers College.
602. **Designing.—(Second Semester)**
 (Two credit hours.)
 Same as Designing 1252. Teachers College.
- Seminar.—(Second Semester.)**
 (Two credit hours.)
 Open only to seniors.
625. **Art.—(First Semester.)**
 (Two credit hours.)
 Problems in interior decoration and costume design-
 ing.
 Same as Art 1253. Teachers College.
626. **House Planning.—(Second Semester.)**
 (Two credit hours.)
 Same as House Planning 1254. Teachers College.
632. **Table and Meal Service.—(Second Semester.)**
 (Two credit hours.)
 Setting of table. Table decorations. Planning, buying
 and serving of balanced meals. Computing cost of serv-
 ing one person; the number in the class; and from these
 calculating the cost of serving fifty.
 Prerequisites: Foods and Dietetics.
607. **Drafting and Designing.—(First Semester.)**
 (One credit hour.)
608. **Fancy Stitches.—(Second Semester.)**
 (One credit hour.)
- 633 and 634. **Chemistry of Foods.—(Both Semesters.)**
 (Three credit hours.)

ENGLISH

Courses: 51, 52, 65, 66, 69, 70, 75, 76.

GERMAN

Students may enter any course offered for which they
 are prepared.

FRENCH

Courses: 151, 152, 153, 154.

SPANISH

Courses: 171, 172, 173, 174.

SOCIOLOGY

Courses: 213, 214, 201, 202.

HISTORY

Courses: 271, 272, 275, 276, 277, 278.

CHEMISTRY

Courses: 353, 354.

621. Organic Chemistry.—(First Semester.)

(Four credit hours.)

Open to students who have completed 354 or its equivalent. This course consists of a brief study of the various classes of organic compounds with emphasis upon their economic importance, especially of those used in the home. With qualitative analysis it satisfies the requirements for entrance to most medical schools. Two recitations and two laboratory periods.

622. Household Chemistry.—(Second Semester.)

(Four credit hours.)

This is in part a continuation of 621. In it the class studies the various proteins, some drugs, metabolic processes, and the chemistry of foods. Two recitations and two laboratory periods.

BIOLOGY

Courses: 401, 402, 409, 410, 419, 420.

PHYSICS

331-332. General Physics —(Both Semesters.)

(Four credit hours each semester.)

A non-mathematical course in General Physics. Chief emphasis on heat, light, and electricity. Special topics—calorimetry, heating systems, ventilation, and lighting systems.

Two recitations and two laboratory periods per week.

TEACHERS COLLEGE

W. J. BANKES, A. M., DEAN

GENERAL INFORMATION

The Teachers College is organized under the joint management of the Akron Board of Education and the Directors of the University. The general oversight of the Teachers College is in charge of the President of the University and the Superintendent of Schools. The work is specifically organized for the following purposes:

- (a) The preparation and training of teachers for the Akron Public School System.
- (b) The professional improvement of teachers already engaged in the Public School service.
- (c) The study of educational problems.

In general, the Teachers College is expected to achieve a threefold purpose. The first of these is the affiliation of teacher training with the various colleges of the University which gives opportunity to all teachers in training to receive academic preparation along with the professional training. As soon as feasible, a bachelor's degree will be required of all those who wish to become applicants for teaching positions in the Akron Schools. A four-year period of training offers opportunity for a wider and more thorough preparation than two or three-year periods. Teacher training is based upon the broader academic field of knowledge and applied to the actual educational situation as it exists in Akron. The Board of Education encourages this broader training by inducements in salary. The maximum salary for elementary teachers in Akron is now \$2,000 and the beginning salary \$1,200. Those who finish the three-year course will begin at a salary of \$1,300 while those who finish the four-year course will begin at \$1,400 with a maximum of \$2,700.

The second purpose is to increase very considerably the opportunities for continued training to teachers already in service. Late afternoon, evening and Saturday courses will be offered for those who wish them. It is hoped many

will take courses leading to the bachelor's degree and that the whole college organization will function as a source of knowledge, assistance and inspiration to the teachers in service.

The third purpose is to increase the closeness of connections between teacher training, instructional, supervisory and administrative forces of the city. The real, vital problems of education may thus be studied by all who represent these forces. In this way the vigorous progressive phases of school work in the city will be reflected in the training courses and the study of these problems by the Teachers College will bring suggestions for methods in teaching, for new forms of training, and for various modifications of school work.

All students are under the rules governing students of the University and are entitled to all the privileges of the institution.

(See general catalog.)

Students are required to do practice teaching for one semester. They receive \$2.50 per day for this teaching—a total of about \$250.00. While teaching they are closely supervised by competent teachers and supervisors.

TUITION AND EXPENSES

Resident Students

Tuition is free to all students whose parents are residents of Akron. Students over 21 years of age whose parents are not residents of Akron must prove one year's consecutive residence before they can be considered as candidates for free tuition. Any person living outside of Akron but owning property within the city of Akron may receive credit on tuition to the extent of taxes actually paid that half-year toward the University levy upon presenting a certificate issued by the County Auditor or Treasurer. Each student must pay an incidental fee of \$10.50 per semester, covering registration, incidentals and student activity fee. If not paid before October 2 of the first semester, or February 19 of the second semester the fee is \$13.00 per semester. Fees to cover breakage in laboratory courses are also charged.

Non-Resident Students

The tuition for non-resident students is \$65.00 per semester in addition to the incidental fee of \$10.50 per semester and laboratory fees as stated for resident students.

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.

For fees to students carrying part-time work see general catalog. Students while engaged in practice teaching receive \$2.50 per day.

LIVING CONDITIONS

The University maintains no dormitories but lists of rooms for men may be found at the general office. All women are under the 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 college should write beforehand to Mrs. E. A. Thompson, Dean of Women, who will gladly assist in obtaining suitable living quarters. Board may be secured in private families, boarding houses, Y. M. C. A. and Y. W. C. A. The School of Home Economics serves a cafeteria luncheon in Curtis Cottage every noon during the school year. The living expenses are about the same as in other cities.

ADMISSION

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

The requirement for unconditional entrance is 15 units. A certificate giving details of high school work must be submitted to Dean W. J. Bankes as early as possible during the summer preceding entrance to Teachers College. Students from other colleges will be admitted upon presentation of certificate of work done and honorable dismissal.

The specific requirements for entrance to Teachers College are as follows:

English	3	units
Mathematics (Algebra 1½ P. Geometry 1).....	2½	units
*Foreign Language (4 recommended).....	2	units
History	1	unit
Science	1	unit

*Four units required of students desiring to major in foreign language.

REGISTRATION

The registration days for the beginning of the school year 1922-1923 will be September 18 and 19; for the second semester, January 12-20. All students, old and new, are required to register and classify on these days between 8:30 A. M. and 5:00 P. M. For registration in Extension Courses see discussion under that head.

COURSES OF STUDY AND DEGREES

Teachers College offers six different Courses for training teachers. The three-year courses do not carry sufficient work for a degree. The practice teaching in all these courses is done in the public schools in regular school rooms under the supervision of Critic Teachers. Each Critic, under the regular plan, supervises three student teachers. In this way the student receives real apprenticeship in teaching. While practice teaching each student is paid \$2.50 per day.

KINDERGARTEN-PRIMARY COURSES

The following courses are offered to students training for kindergarten work: At the end of the first year, in order to continue the kindergarten-primary course, each student must demonstrate sufficient ability in piano to receive the Dean's approval.

THREE YEAR COURSE**FIRST YEAR**

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
English 51	3	English 52	3
Political Science 261.....	4	General Psychology 1102..	4
Biological Aspects of Education 1171	3	General History of Education 1130	3
Music	1½	Music	1½
Physical Training	1	Physical Training	1
Freshman Lectures	½	Current Events 290.....	1
Speech 91	3	Speech 92	3
	<hr/>		<hr/>
	16		16½

SECOND YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Biology 401	4	Biology 402	4
Educational Psychology 1103	3	Educational Psychology 1104	3
Art 1251	2	Art 1252	2
Public School Music 1231	2	Educational Measure- ments 1134	2
History of Education in the United States 1131	3	Principles of Teaching 1210 (1 hr. of Observa- tion)	3
Story Telling 89	3	Story Telling 90	3
	<hr/>		<hr/>
	17		17

THIRD YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Gifts, Occupations and Mother Plays 1305	2	Practice Teaching 1302	4
Handwork 1307	2	Practice Teaching 1214 (First or Second Grade)	4
Songs and Games 1309.....	2	Kindergarten Methods 1304	4
Art 1311	2	Primary Methods 1216.....	4
Child Psychology 1105.....	3	Piano 1316	1
Piano 1315	1		
History of Kindergarten and Application to Pres- ent Day Kindergarten Philosophy 1313	2		
Primary Methods (Read- ing, Numbers, etc).....	3		
	<hr/>		<hr/>
	17		17

Total of 96 hours required. This course when completed entitles student to State certificate and admits to teaching position in Akron.

FOUR YEAR COURSE

FIRST YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
English 51	3	English 52	3
Political Science 261.....	4	General Psychology 1102	4
Biological Aspects of Education 1171	3	General History of Edu- cation 1130	3
Music	1½	Music	1½
Physical Training	1	Physical Training	1
Freshman Lectures	½	Current Events 290	1
Mathematics or *Foreign Language.....	4	Mathematics or *Foreign Language	4
	<hr/>		<hr/>
	17		17½

SECOND YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Biology 401	4	Biology 402	4
English Literature 65	3	English Literature 66.....	3
Educational Psychology 1103	3	Educational Psychology 1104	3
Speech 91	3	Speech 92	3
Human Biology	2	Human Biology	2
Art 1251	2	Art 1252	2
	<hr/>		<hr/>
	17		17

THIRD YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
American Literature 75.....	3	American Literature 76..	3
Sociology 213	3	Sociology 214	3
History of Education in the United States 1131	3	Educational Measure- ments 1134	2
Art 1253	2	Principles of Teaching 1210 (Observation 1 hr.)	3
Public School Music 1231..	2	Story Telling 90	3
Story Telling 89	3	Psychology of Learning 1112	3
Introduction to the Scien- tific Study of Education 1133	2		
	<hr/>		<hr/>
	18		17

*Must be continuation of some Language pursued in High School.

FOURTH YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Gifts, Occupations and Mother Plays 1305.....	2	Practice Teaching 1302	4
Handwork 1307	2	Practice Teaching 1214 (First or Second Grade)	4
Songs and Games 1309.....	2	Kindergarten Methods 1304	4
Art 1311	2	Primary Methods 1216.....	4
Piano 1315	1	Piano 1316	1
Child Psychology 1105	3		
History of Kindergarten and Applications to Present Day Kindergar- ten Philosophy 1313.....	2		
Primary Methods (Read- ing, Numbers, etc.).....	3		
	<hr/>		<hr/>
	17		17

128 hours required. Bachelor of Education degree granted for this course.

COURSES FOR ELEMENTARY TEACHERS

The following courses are offered for students training for teaching in the Elementary Schools:

THREE YEAR COURSE**FIRST YEAR**

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
English 51	3	English 52	3
Political Science 261.....	4	General Psychology 1102	4
Biological Aspects of Education 1171	3	General History of Edu- cation 1130	3
Music	1½	Music	1½
Physical Training	1	Physical Training	1
Freshman Lectures	½	Current Events 290	1
Speech 91	3	Speech 92	3
	<hr/>		<hr/>
	16		16½

SECOND YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Biology 401	4	Biology 402	4
Educational Psychology 1103	3	Educational Psychology 1104	3
Art 1251	2	Art 1252	2
Public School Music 1231	2	Educational Measure- ments 1134	2
History of Education in the United States 1131	3	Principles of Teaching (1 hr. of Observation) 1210	3
Story Telling 89	3	Story Telling 90.....	3
	<hr/>		<hr/>
	17		17

THIRD YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Practice Teaching 1213	8	Electives approved by the Dean	10
Methods and Management 1215	6	Arithmetic and Methods	3
Educational Problems 1211	2	Geography and Methods	3
	<u>16</u>		<u>16</u>

Total of 96 hours required.

No degree is granted for the completion of this course but student is entitled to a State Certificate and eligibility to appointment to teaching position in Akron.

FOUR YEAR COURSE**FIRST YEAR**

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
English 51	3	English 52	3
Political Science 261	4	General Psychology 1102	4
Biological Aspects of Education 1171	3	General History of Education 1130	3
Music	1½	Music	1½
Physical Training	1	Physical Training	1
Freshman Lectures	½	Currents Events 290	1
Mathematics or *Foreign Language	4	Mathematics or *Foreign Language	4
	<u>17</u>		<u>17</u>

SECOND YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Biology 401	4	Biology 402	4
English Literature 65	3	English Literature 66	3
Educational Psychology 1103	3	Educational Psychology 1104	3
Speech 91	3	Speech 92	3
Human Biology	2	Human Biology	2
Art 1251	2	Art 1252	2
	<u>17</u>		<u>17</u>

THIRD YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
American Literature 75	3	American Literature 76	3
Sociology 213	3	Sociology 214	3
History of Education in the United States 1131	3	Educational Measurements 1134	2
Art 1253	2	Principles of Teaching (Observation 1 hr.) 1210	3
Public School Music 1231	2	Story Telling 90	3
Story Telling 89	3	Psychology of Learning 1112	3
Introduction to the Scientific Study of Education 1133	2		
	<u>18</u>		<u>17</u>

*Must be a continuation of some language pursued in High School.

FOURTH YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Practice Teaching 1213.....	8	Electives approved by the Dean	10
Educational Problems 1211	2	Arithmetic and Methods.....	3
Methods and Manage- ment 1215	6	Geography and Methods.....	3
	<hr/>		<hr/>
	16		16

This course requires a total of 128 hours and entitles the student who completes the course to the degree of Bachelor of Education.

HOME ECONOMICS COURSE

Students desiring to train for teaching Home Economics must spend five years in the Curtis School of Home Economics and Teachers College. At the end of four years the Curtis School grants a degree of Bachelor of Science in Home Economics and at the end of the fifth year the Teachers College grants the degree of Bachelor of Education.

Graduates of this course are prepared for grade or high school positions in the Akron Schools.

FIRST YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Chemistry 353	4	Chemistry 354	4
English 51	3	English 52	3
Modern Language.....	3 or 4	Modern Language.....	3 or 4
Textiles 603	2	Textiles 604	2
Art 1251	2	Art 1252	2
Physical Training	1	Physical Training	1
Freshman Lectures	$\frac{1}{2}$		
	<hr/>		<hr/>
	15 $\frac{1}{2}$ or 16 $\frac{1}{2}$		15 or 16

SECOND YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Organic Chemistry 621	4	Household Chemistry 622... ..	4
Biology 401	4	Biology 402	4
Modern Language	3	Modern Language	3
Dress 609	3	House Planning 626.....	2
Biological Aspects of Education 1171	3	General Psychology 1102... ..	4
	<hr/>		<hr/>
	16		18

TEACHERS COLLEGE

THIRD YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
English 65 or 75	3	English 66 or 76	3
Sociology 213	3	Sociology 214	3
Foods 605	4	Foods 606	4
Physiology 409	4	Physiology 410	4
History of Art 287 or Music	2	History of Art or Music	2
	<hr/> 16		<hr/> 16

FOURTH YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Dietetics 613	4	Seminar 618	2
Art 1253	2	House 616	3
Bacteriology and Sani- tation 419	3	Bacteriology and Sani- tation 420	3
Educational Psychology 1103	3	Educational Measure- ments 1134	2
History of Education in the United States 1131... 3	3	Principles of Teaching (Observation 1 hr.) 1210	3
Introduction to the Scien- tific Study of Educa- tion 1133	2	Psychology of Learning 1112	3
	<hr/> 17		<hr/> 16

FIFTH YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Electives approved by the Dean sufficient to total 160 hours.		Practice Teaching 1214.....	8
		Methods and Manage- ment 1216	6
		Educational Problems 1212	2
			<hr/> 16

COURSES FOR HIGH SCHOOL TEACHERS

Students desiring to train for high school positions will spend their first year as regular freshmen in the College of Liberal Arts at end of which time majors will be selected.

MAJORS LEADING TO THE A. B. DEGREE

- I. **Greek and Latin.** A minimum of 40 hours, at least 14 of which must be Greek.
- II. **Latin.** A minimum of 32 hours.
- III. **German and French.** A minimum of 20 hours of each.

- IV. Romance Languages.** A minimum of 40 hours (26 of French and 14 of Spanish.)
- V. Philosophy and Sociology.** Thirty hours.
- VI. Economics and Political Science.** Twelve hours of each.
- VII. History.** A minimum of 24 hours.
- VIII. English Literature.** A minimum of 24 hours, exclusive of Freshman Rhetoric.

MAJORS LEADING TO THE B. S. DEGREE

- IX. Chemistry.** A minimum of 40 hours.
- X. Mathematics.** A minimum of 32 hours.
- XI. Physics.** A minimum of 28 hours.
- XII. Biology.** A minimum of 32 hours.

For minors required with each major see general catalog.

In addition to the Major and Minors, 20 hours should be selected in the first four years from the professional and educational courses in Teachers College with the approval of the Dean.

FIFTH YEAR

First Half-Year	Term Hrs.	Second Half-Year	Term Hrs.
Electives sufficient to total		Practice Teaching 1214.....	8
160 hours, to be ap-		Methods 1216	6
proved by the Dean.		Educational Problems 1212	2

16

At the end of four years a Liberal Arts degree will be granted.

Degree of Bachelor of Education will be granted upon completion of 160 hours which entitles the holder to a State Certificate and eligibility to appointment in the high schools of Akron.

DEPARTMENTS OF INSTRUCTION

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

Psychology and Education.....	1101-1200
Methods and Teaching.....	1201-1250
Art	1251-1260
Kindergarten Training.....	1300-1350

Other subjects are numbered as in the general catalog.

PSYCHOLOGY AND EDUCATION

DEAN BANKES, SUPERINTENDENT REED

PROFESSOR HAYES, MR. HECK

1102. **General Psychology.—(Second Semester.)** Four hours.

The nervous system; attention; sensations; perception; memory; imagination; association; conception; judgment; reasoning; feelings; emotions; will; self.

1103. **Educational Psychology I.—(First Semester.)** Three hours.

A study of misunderstandings, illusions, tact, open-mindedness, changing concepts, pitfalls of reasoning, personality, imagery, character, work saved from drugery, loyalty, discouragement, choosing vocations. This course aims to apply the principles of Psychology.

1104. **Educational Psychology II.—(Second Semester.)** Three hours.

This course is designed as introductory to the more advanced courses on Educational Psychology. Among the topics considered will be: Significance of infancy in education, individual differences among school children, motor activity, association and memorizing, transfer of training, general problems in Mental Hygiene.

Prerequisite: Courses 1102 and 1103.

1105. **Child Psychology.—(First Semester.)** Three hours.

Biological perspective: The child as a product of his instincts and emotions, epochs of ontogenetic development, origin and significance of play, the three theories of the play instinct, child's responses, imitation and self assertion, appearance and significance of the social instincts. The aim of the course is to give a basis for the intelligent management of the child, for adjustment of school tasks and activities to his interests and ability as well as for the better supervision of his learning.

1107. **Psychology of Adolescence.—(First Semester.)**
Two hours.

The meaning of adolescence, transition from the individualistic stage to the social stage in play and work, evolution of moral and ethical conduct, sex and social behavior, linguistic development of children, children's drawings and their significance, juvenile delinquency, general mental development, peculiarities of the period.

1108. **Psychology of the Exceptional Child.—(Both Semesters.)** Two hours each.
(See Extension Bulletin.)

1112. **The Psychology of Learning.—(Second Semester.)**
Three hours.

This course consists of the study of the stages of development in the learning process: a detailed study of the processes involved in each of the school subjects; nature of the different kinds of learning; practice and the work curve; retention and forgetting; technique of mechanical learning; training of memory; transfer; individual and age differences; incentives; investigations and reports upon the literature of the field. Problem method will be used.

Open to advanced students.

1113. **History of Psychology.—(First Semester.)** Two hours.
(See Extension Bulletin.)

1114. **Psychology of the Common Branches.—(Second Semester.)** Two hours.
(See Extension Bulletin.)

1120. **Social Occupations.—(Second Semester.)** Two hours.
(See Extension Bulletin.)

1130. **History of Education.—(First Semester.)** Three hours.

A study of the development of educational thought and practice from ancient to modern times. The course is planned to give the student a background and perspective from which to understand present educational problems. Readings, discussions and special reports.

1131. **History of Education in the United States.—(First Semester.)** Three hours.

European background followed by history of public education in the United States.

1133. **Introduction to the Scientific Study of Education.—(First Semester.)** Two hours.

Meaning and aim of scientific evaluation of school room practices; historic background of such studies as have been made; survey of the various methods of instruction with special reference to the underlying scientific basis for each method; efficiency and economy in educational methods; school practices in control and class organization; scientific basis for promotion and classification; rating of teachers. The aim of the course will be to prepare the student to understand the scientific basis for various methods in educational practice.

1134. **Educational Measurements.—(Second Semester.)** Two hours.

Brief study of present school marks; different kinds of tests in use; measuring ability in arithmetic, reading, spelling, handwriting, history, geography, language, etc.; elementary facts in use in statistics; use to be made of test results.

1135. **Educational Measurements.—(First Semester.)** Two hours.

(See Extension Bulletin.)

1159. **Current Educational Movements.—(First Semester.)** Two hours.

(See Extension Bulletin.)

1171. **Biological Aspects of Education.—(First Semester.)** Three hours.

The aim of the course is to give a biological and hygienic background for education. The course will consist of a study and discussion of the fundamental principles of biology as related to physical and mental growth; hygiene of school life, corrective mental hygiene, motor and mental activities, rest and work periods, efficiency. Problems in social hygiene, eugenics, sex-education, and those arising in the school and community will be discussed.

METHODS AND TEACHING

DEAN BANKES, PROFESSOR HAYES, ASSISTANT SUPERINTENDENT McELROY, MISS HOOVER, MISS GLOVER

1201. Principles of Instruction in Secondary Education. —(First Semester.) Two hours.

This course deals with the basis of method in high school instruction; fundamental principles of learning; aims in instruction; the class exercise; modes of recitation; lesson development; lesson organization; standards in instruction; relation between individual and social instruction.

1202. Modern Elementary School Practice. — (Second Semester.) Four hours.

Investigation of methods used by the most successful teachers in the various elementary school subjects; a careful analysis of the underlying principles of such teaching; a study of special methods in reading, spelling, geography, history and arithmetic; factors in the selection of material and subject matter; routine phases of school room practice; supervised study; use of text books; lecture method; testing vs. teaching; care and use of materials and supplies; proper and improper use of outside material.

1210. Principles of Teaching. — (Second Semester.) ✓
Three hours.

A discussion of the principles of educational practice and evaluation of the various principles in the light of Educational Psychology.

1211-1212. Educational Problems. — (Both Semesters.)
Two hours.

This class is especially planned for students who are doing their practice teaching. The particular problems in discipline and methods of teaching will be discussed. General problems of the teacher will receive careful attention.

1213-1214. Practice Teaching.—(Both Semesters.)

Students will teach in the Akron Schools under normal school conditions as they actually exist in the school room.

- 1215-1216. **Methods and Management—(Both Semesters.)** Six hours.

This is a course of methods in planning and teaching. This is given by the supervisor of practice teaching in conferences with students. The needs of the student teacher will be the basis for this course.

1218. **Primary Methods.—(Second Semester.)** Two hours.

(See Extension Bulletin.)

1225. **Methods in Arithmetic.—(First Semester.)** Two hours.

(See Extension Bulletin.)

- 1227-28. **Methods for Continuation School Teachers.—(Both Semesters.)** Two hours each.

(See Extension Bulletin.)

- 1229-30. **Methods in High School English.—(Both Semesters.)** Two hours each.

(See Extension Bulletin.)

1231. **Public School Music I.—(First Semester.)** Two hours.

Principles of teaching music in the Public Schools with careful attention to the fundamentals of music methods successfully used in the class room.

1232. **Public School Music II.—(Second Semester.)** Two hours.

(See Extension Bulletin.)

- 1233-34. **Home and School Crafts.—(Both Semesters.)** Two hours each.

(See Extension Bulletin.)

1235. **Methods in Modern Languages.—(First Semester.)** Two hours.

(See Extension Bulletin.)

1237. **Methods in Aldine Reading.—(First Semester.)** Two hours.

(See Extension Bulletin.)

1239. **Methods in Teaching Language.—(First Semester.)**
Two hours.
(See Extension Bulletin.)
1240. **Methods in Elementary History.—(Second Semester.)** Two hours.
(See Extension Bulletin.)
1236. **Methods in High School Science.—(Second Semester.)** Two hours.
(See Extension Bulletin.)
1242. **Methods in High School Mathematics. — (Second Semester.)** Two hours.
(See Extension Bulletin.)
1243. **Literature for the Grades.—(First Semester.)** Two hours.
(See Extension Bulletin.)
1248. **Use of Library.—(Second Semester.)** Two hours.
(See Extension Bulletin.)

ENGLISH

DEAN SPANTON, ASSISTANT-PROFESSOR PEASE, MR. HOWE,
MR. HARRISON AND MRS. MACKINNON

51. **Freshman English.—(First Semester.)** Three hours.
Repeated the Second Semester.

Required of all freshmen. A thorough 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 English.—(Second Semester.)** Three hours. Also given the First Semester.

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

65. **Development of English Literature.—(First Semester.)** Three hours.

A quick survey of Anglo-Saxon and Early English literature, followed by a careful study of the Elizabethan and the Puritan periods, and of the last half of the 18th century.

66. **Modern English Literature.**—(Second Semester.)
Three hours.

A study of the social forces which have shaped the development of modern English Literature, and of the expression of these forces in the works of leading writers since 1830.

75-76. **American Literature.**—(Both Semesters.) Three hours.

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

89-90. **Story Telling.**—(Both Semesters.) Three hours.

In recent years Story Telling has become a significant movement in the field of education. This is because of the growing feeling that the study and practice of story telling, of how to tell the right story at the right time in the right way, probably develops in the student the power of self-expression more than does any other form of speech education.

The course covers the history, uses, materials, and technique of story telling.

Recitations, speeches, conferences. Dramatization once a month.

SPEECH

MISS McEBRIGHT

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.) Three hours.
Repeated the Second Semester.

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.

HISTORY.

DEAN THOMPSON

287-288. **History of Art.—(Both Semesters.)** Two hours each.

290. **Current Events (for Freshmen only.)—(Second Semester.)** One hour.

CHEMISTRY

PROFESSOR SIMMONS AND ASSISTANT-PROFESSOR SCHMIDT

353-354. **General Inorganic Chemistry.—(Both Semesters.)** Two recitations and two laboratory periods. Four hours.

621. **Organic Chemistry.—(First Semester.)** Two recitations and two laboratory periods. Four 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. **Household Chemistry.—(Second Semester.)** Continuation of 621. Four 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 621.

BIOLOGY

PROFESSOR PLOWMAN
MISS FRIEDLANDER

401-402. **General Biology.—(Both Semesters.)** Four hours. Two lectures and two laboratory sessions per week.

A study of parallel groups of the more primitive 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.

Note: No credit will be allowed for less than the entire year in General Biology.

Courses 401 and 402 are required as prerequisites for all other courses in this department, except 413-414 and 415-416.

409-410. Human Physiology.—(Both Semesters.) Four hours.

Three recitations and three hours of laboratory work per week. Women's Course. Given alternate years. Required in Curtis School. Similar to 407-408, but especially adapted to the needs of college women.

413-414. Human Biology.—(Both Semesters.) Two hours.

Recitations, lectures, laboratory work and reference reading, two hours per week. A study of the human mechanism, considering its essential internal processes and broader environmental relationships, with special reference to personal health and fitness for the task of efficient living.

415-416. Human Biology.—(Both Semesters.) Two hours.

Similar to 413-414, but especially adapted to meet the needs of college women.

419-420. Bacteriology.—(Both Semesters.) Three hours.

Two lectures and about four hours of laboratory work per week.

A study of the history and growth of bacteriology, the relations of bacteria to man, laboratory technique, and the elements of pathology. Required of all students in Curtis School of Home Economics.

POLITICAL SCIENCE

PROFESSOR CRECRAFT

261. Political Science.—(First Semester.) Four hours.

(See general catalog.)

HOME ECONOMICS

PROFESSOR STIMMEL AND MISS STINSON

603-604. Textiles.—(Both Semesters.) Two hours each semester. One lecture and one laboratory period.

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 and chemistry of textiles.

605-606. **Foods.**—(Both Semesters.) Four hours each semester. Two lectures and two laboratory periods.

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

609. **Dress.**—(First Semester.) Three hours.

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

613. **Dietetics.**—(First Semester.) Four hours. Two recitations and two laboratory periods.

Prerequisite: Foods 605-6 and Household Chemistry 621-2. A study of the chemical, physical and physiological value of the nutrients. Dietary standards, infant and invalid cookery.

616. **The House.**—(Second Semester.) Three hours.

Prerequisite: Art 607, Sociology 213-4, Home Economics 605-6, Home Economics 603-4, Home Economics 625. 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.

618. **Seminar.**—(Second Semester.) Two hours. Open only to seniors.

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

SOCIOLOGY

PROFESSOR OLIN

213-214. **Sociology.**—(Both Semesters.) Three hours each. Text-book: Blackmar and Gillen.

ART

MISS KENNISTON

1251. **Elements of Art.** Two credit hours.
The class will recite four hours per week. The elementary principles of art leading up to work in design, water color, etc.
1252. **Design.** Two credit hours. Four hours per week.
The principles of designing and application of these principles.
1253. **Art.** Two credit hours. Four hours per week.
Advanced work in design and interior decorating.

MUSIC

FRANCESCO DE LEONE, DIRECTOR

The work in Music is open to election by members of all four college classes. A credit of one and one-half hours each semester is given students electing the study of Music, and one-half credit is given students for Glee Club or Orchestra.

The Study of Music.—(Both Semesters.) This course is carried on as class room work and is chosen from the following subjects:

- Rudiments and essentials of music.
- Theory of music and elementary harmony.
- Thorough bass.
- Ear training and solfeggio.
- First year history of music.
- Biographical history of music.
- Musical appreciation—study of operas, etc.
- Men's Glee Club.—(Both Semesters.)
- Women's Glee Club.—(Both Semesters.)
- Orchestra.—(Both Semesters.)

KINDERGARTEN TRAININGMISS HUBER
MRS. EVANSMISS DAVIS
MISS SCHLENCKER

- 1301-1302. **Practice Teaching.—(Both Semesters.)** Four hours.

Students will teach in the Akron Kindergartens under normal conditions as they exist in the city.

1303-1304. **Methods in Kindergarten Teaching.—(Both Semesters.** Four hours.

This is a course in methods and planning which is given by the Kindergarten Critic. The needs of students will be the basis of this course.

1305-1306. **Gifts, Occupations and Mother Plays.—(Both Semesters.)** Two hours.

1307-1308. **Handwork.—(Both Semesters.)** Two hours.

1309-1310. **Songs and Games.—(Both Semesters.)** Two hours.

1311-1312. **Art.—(Both Semesters.)** Two hours.

1313-1314. **History and Philosophy of Kindergarten.—(Both Semesters.)** Two hours.

1315-16. **Piano.—(Both Semesters.)** One hour.

This course consists of private lessons in piano with instructor receiving the approval of the Dean.

FRESHMAN LECTURES.

These lectures, which all freshmen are required to attend, are given Saturday mornings through the first semester in order to help the freshman to start right in his college life.

They are given by members of the faculty on such topics as How to Study, The Privilege and Responsibility of Being a College Student, The Honor System, What is a Liberal Education? The Value of Good English, If I were a Freshman Again, and Our History, Traditions, and Customs, and the Use of the Library.

One-half hour credit is given.

PHYSICAL EDUCATION

MR. SEFTON, MR. SAYGER AND MISS DUNCKLEY

All freshmen are required to take two hours per week physical training. All freshman men not physically disqualified must take the basic course in Military Training unless they have been in the federal service more than one year. Uniform and equipment are furnished.

The work of the basic course consists chiefly of training in close and extended order drill, familiarity with arms and their proper care, familiarity with the organization of the Armory, Military courtesy, map problems, small problems for infantry, first aid, personal hygiene, camp sanitation, gallery practice, range practice, ceremonies, inspections and reviews.

COURSES FOR TEACHERS IN SERVICE

The Teachers College will offer evening and Saturday courses during the year 1922-23. These courses of college grade will receive two hours' credit each. A fee of \$5.00 for each course will be charged at time of registration.

REGISTRATION

Registration will take place on the following days: For the First Semester: Saturday, September 23, 1922, 2:00 to 5:00 and 7:00 to 9:00 P. M. To all registering after October 1, a late registration fee will be charged.

An enrollment of sufficient number is necessary to offer any course. No registrations for entry to any class will be allowed after the second session of the class.

For the Second Semester: Saturday, January 27, 1923, 2:00 to 5:00 and 7:00 to 9:00 P. M. Late registration fee will be charged after January 31.

Class work for the First Semester will begin Tuesday, October 3, 1922, and will close Saturday, February 3, 1923.

Class work for the Second Semester will begin Tuesday, February 6, 1923, and will close Saturday, June 2, 1923.

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

No tuition fees are refunded except when enrollment for any class is not sufficient for course to be given. In case of absence from class on account of sickness proportionate credit may be given on a subsequent course.

EXTENSION CLASSES.**FIRST SEMESTER 1922-1923****Tuesday, 7:00-9:00 P. M.**

Modern Elementary School Practice
Educational Measurements I.
Fundamentals of Biology
Methods in Arithmetic
Literature for the Grades
Principles of Instruction in Secondary Education
Educational Psychology I
History of Education
Speech I
Methods for Continuation School Teachers I

Wednesday, 7:00-9:00 P. M.

Methods in High School English
Home and School Crafts
Story Telling I
Public School Music I
Biological Aspects of Education
Current Educational Movements
History of Psychology

Thursday, 7:00-9:00 P. M.

Psychology of the Exceptional Child I
Methods in Modern Languages
Speech II
History of English Literature

Saturday, 8:00-10:00 A. M.

Story Telling II
Methods in Aline Reading
Psychology of Adolescence

Saturday, 10:00-12:00 A. M.

Educational Measurements II
Methods in Teaching Language
Introduction to the Scientific Study of Education

SECOND SEMESTER 1922-1923**Tuesday, 7:00-9:00 P. M.**

Psychology of the Common Branches
 Educational Measurements II
 Methods in Elementary History
 Educational Psychology II
 Methods in High School Science
 Speech II
 Methods for Continuation School Teachers II

Wednesday, 7:00-9:00 P. M.

Psychology of Learning
 Home and School Crafts
 Story Telling II
 Public School Music II
 Methods in High School English

Thursday, 7:00-9:00 P. M.

Psychology of the Exceptional Child II
 Methods in High School Mathematics
 Speech I
 Use of Libraries
 Social Occupations
 History of English Literature

Saturday, 8:00-10:00 A. M.

History of Education in the United States
 Story Telling I
 Primary Methods

Saturday, 10:00-12:00 A. M.

Educational Measurements I
 Child Psychology
 Educational Sociology

In addition to these courses credit will be given by the Teachers College for any courses offered in extension by the Liberal Arts College if such courses are required by Teachers College for the degree in Education.

For description of extension courses see the Extension Bulletin or the section given to extension courses in the general University catalog.

For description of work done in Summer School Session see the Summer School Bulletin.

For any further information regarding Teachers College, address W. J. Bankes, Dean.

TRADE TEACHING COURSES

With the introduction of shop subjects into the public schools there came a demand for a new type of teacher, namely, one who knew his trade and who also had a knowledge of teaching methods.

It was soon discovered that men with both of these qualifications were very hard to find and that, if the demand was to be met, some method must be found of making skilled mechanics into teachers.

At the present time there is a strong and growing demand for skilled mechanics—carpenters, cabinet makers, mechanical draftsmen, printers, pattern makers, sheet metal workers, electricians, automobile repair men, machinists, painters, bricklayers and plumbers, who are able to teach their crafts. There is also a demand for teachers of related subjects, namely, shop drawing, shop mathematics, blue print reading and shop science.

In 1917 the Smith-Hughes Law was passed by the Federal Government which set aside a large sum of money for trade teacher training.

An arrangement has been made by which the trade teacher training courses offered by the State and Federal Government are given in Teachers College.

Following are the qualifications required of men who wish to prepare themselves as teachers of shop or related subjects:

For Teachers of Shop Subjects.

Applicants should have had five years of trade experience in addition to their apprenticeship training. They should also have a grammar school education or its equivalent. Men with high school education are especially desired.

For Teachers of Related Subjects.

(a) Applicants should have had two years of training beyond the high school and some experience in trade

or industry which will enable them to make practical applications of the subjects which they are teaching.

(b) High School education with not less than three years of successful trade experience.

(c) High School teaching experience with one year of trade experience.

(d) Successful experience in teaching manual training with at least one year of practical trade experience.

OUTLINES OF COURSES

A complete course for teachers of shop subjects will consist of 256 hours of instruction, distributed as follows:

Trade English	32 hours
Trade Mathematics	32 hours
Trade Analysis and Theory of Teaching Trades (with observation)	48 hours
Trade Practice Teaching	64 hours
Trade Drawing	32 hours
Trade Science	32 hours
Theory and Administration of Vocational Edu- cation	16 hours
	256 hours

A complete course for teachers of related subjects will consist of 256 hours of instruction, distributed as follows:

- (a) Theory and Organization of Vocational Education.
 - (b) Trade Mathematics consisting of:
 1. Rapid review of the more advanced portions of the subject, and
 2. Hints regarding how to teach same.
(Part 2) above would not be required for prospective teachers of trade science.
 - (c) Trade Science.
(See "b" above.)
 - (d) Trade Drawing.
Sufficient to insure facility in reading blue prints and in making satisfactory sketches.
- TOTAL128 hours
-

(e) Theory and Practice of Teaching divided somewhat as follows:

1. Trade Analysis.
2. Observation of Teaching.
3. Practice Teaching.
4. Theory of Teaching, closely correlated with (2).
5. Shop Class Management.

TOTAL128 hours

256 hours

Students who satisfactorily complete this course will receive the trade teaching diplomas issued by the Ohio State Board of Education.

No fees are required for the above courses.

EXTENSION COURSES

1922-1923

The University will offer during the college year 1922-1923 a number of courses for the especial benefit of teachers, employed persons, and citizens in general who may wish to enter the work. These courses are, as far as possible of college grade. They are divided into two classes.

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

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

ADMISSION

Class A courses are open :

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

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

REGISTRATION

Registration will take place on the following days:

For the first Semester:

Saturday, September 23, 1922, 2:00 to 5:00 and 7:00 to 9:00 P. M. To all registering after October 1, a late-registration fee will be charged. (See statement under Fees.)

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

For the second Semester:

Saturday, January 27, 1923, 2:00 to 5:00 and 7:00 to 9:00 P. M. To all registering after January 31 a late-

registration fee will be charged. (See statement under Fees.) **No registrations for entry to any class will be allowed after the second session of the class.**

Class work for the first semester will begin Tuesday, October 3, 1922, and will close February 3, 1923.

Class work for the second semester will begin Tuesday, February 6, 1923, and will close June 2, 1923.

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.

FEEES

All courses \$5.00 per semester.

Late Registration Fee

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

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

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

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

For all courses marked with a * credit will be given in the Teachers College.

The University of Akron will give regular extension courses to students at centers other than the University buildings under condition that the class to be formed consist of not less than twenty students paying the regular extension fee based upon a charge of \$5.00 for a course held two hours per week during one semester. The place for recitation and class room equipment must in such cases be furnished by the petitioning group. Only courses of college rank will be given and only those courses will be given for which the University can find a competent instructor of University rank. University credit will be given for the successful completion of such courses.

COURSES FOR 1922-1923**CLASS A COURSES
ROMANCE LANGUAGES**

PROFESSOR BULGER
ASSISTANT-PROFESSOR REED
MR. TAILLIART
MISS MALONE

French***First Year French.—(First Semester.)**

Grammar, reading, simple conversation, Tuesday, 7:00-9:00.

(Two credit hours.)

***First Year French.—(Second Semester.)**

This course is a continuation of the first semester's work. Tuesday, 7:00-9:00.

(Two credit hours.)

Spanish***First Year Spanish.—(First Semester.)**

Grammar, reading, simple conversation. Tuesday, 7:00-9:00.

(Two credit hours.)

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

This course is a continuation of the first semester's work. Tuesday, 7:00-9:00.

(Two credit hours.)

***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. Thursday, 7:00-9:00.

(Two credit hours.)

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

Continuation of the work of the first semester. Thursday, 7:00-9:00.

(Two credit hours.)

Beginning German.—A course will be given provided a class of twenty may be enrolled.

ENGLISH

ASSISTANT-PROFESSOR PEASE
MR. HOWE
MR. HARRISON
MRS. MACKINNON

***History of English Literature.—(Both Semesters.)**

For description see Psychology and Education, page 165.
Thursday, 7:00-9:00.

(Two credit hours each semester.)

***History of American Literature.—(Both Semesters.)**

A rapid survey of the literature of the Colonial and Revolutionary Periods, with the emphasis placed upon the study of the leading poets and prose writers of our later literature. Wednesday, 7:00-9:00.

(Two credit hours each semester.)

***Methods in High School English.—(Both Semesters.)**

For description see Methods and Teaching, page 167.
Wednesday, 7:00-9:00.

(Two credit hours each semester.)

Practical Writing (a).—(First Semester.)

This course is designed to give students practice in expressing their own ideas clearly, correctly, concisely, and concretely. Attention is given to paragraph and sentence structure. The students write short expository compositions. Wednesday, 7:00-9:00.

(Two credit hours.)

Practical Writing (b).—(Second Semester.)

This course is designed with the same purpose as Practical Writing (a). Attention is given to description, characterization, and narration. The students write short compositions. The course may be taken as a continuation of (a); but (a) is not a prerequisite. Wednesday, 7:00-9:00.

(Two credit hours.)

Story Telling in the Home and Sunday School.—(First Semester.)

A course for women only. The class is limited to thirty members. In recent years story telling has become a significant movement in the field of education. This is because of the growing feeling that the study and practice of story telling, of how to tell the right story at the right time in the right way, probably develops in the student the power of self expression more than does any other form of speech education.

The first semester's work will include the history and types of stories for telling, and the adaptation of the written classics for oral presentation. The requirements are: The telling of one three-minute story, one five-minute story, one classic adapted to ten minutes, one ten-minute talk, and other stories, talks and discussions as the work demands. Thursday, 7:00-9:00.

(Two credit hours.)

Story Telling.—(Second Semester.)

A continuation of the work of the first semester, making a careful study of the choice of stories and books for children according to periods (age); the preparation, structure and technique of story telling and a further consideration of the adaptation of stories.

The same requirements will be demanded in the second semester that were fulfilled during the first. Thursday, 7:00-9:00.

(Two credit hours.)

SPEECH

MISS McEBRIGHT

***Elementary Course.—(Both Semesters.)**

Fundamental principles, voice technique, tone placing, tone building, enunciation, literary analysis, gesture, evolution of expression, vocal and physical. Extempore speeches, critiques, personal development. First Semester, Tuesday, 7:00-9:00. Second Semester, Thursday, 7:00-9:00.

***Advanced Course.—(Both Semesters.)**

Extempore and impromptu speeches. Literary, dramatic, artistic interpretation; character study, Shakspeare's plays. Development of imagination and sympathetic insight into literature. This course follows elementary course. First Semester, Thursday, 7:00-9:00. Second Semester, Tuesday, 7:00-9:00.

(Two credit hours each semester.)

PHILOSOPHY AND SOCIOLOGY.

PROFESSOR OLIN

Applied Sociology.—(First Semester.)

1. Historical development of society and social groups.
2. Social forces and their action.
3. Problems of normal society, economic, political and ethical.
4. Problems of poverty, crime, insanity, feeble mindedness, degeneracy.
5. Social incentives.
6. Principles and methods of progress. Wednesday, 7:00-9:00.

(Two credit hours.)

Practical Psychology.—(Second Semester.)

General Outline of Psychology.
 How knowledge comes.
 What the mind does with knowledge.
 Problems of Psychology.
 Psychology and vocation.
 Psychology and health.
 Psychology and ethics.
 Practice with "Intelligence" and "Fitness" tests.
 Value of experimental work.
 Concentration, memory, will and power.
 Wednesday, 7:00-9:00.

(Two credit hours.)

ECONOMICS AND POLITICAL SCIENCE

PROFESSOR CRECRAFT

Brief Course in Economics.—(First Semester.)

Course includes consideration of fundamental economic concepts, and outlines the structure and functions of

economic society. (Course open to teachers as well as others.) Tuesday, 7:00-9:00.

(Two credit hours.)

International Political Problems.—(Second Semester.)

Course includes study of present day international problems; results of the international peace and armament conferences; the future of international law. (Open to teachers as well as others.) Tuesday, 7:00-9:00.

(Two credit hours.)

COMMERCE AND ADMINISTRATION

PROFESSOR McDERMOTT

MR. SHARER

Bookkeeping and Accounting.—(Each Semester.) Beginning Course.

Science and constructing systematic records of business transactions; study of double entry bookkeeping; critical examination of the typical factors in capital and revenue account; development of forms used in business; forms and records used in different industrial enterprises. Many illustrative problems used. Wednesday, 7:00-9:00.

(Two credit hours.)

Accounting.—(Each Semester.) Advanced Course.

Principles of bookkeeping reviewed; new forms used in accounting introduced; partnership and corporation studied and analyzed; corporation accounting completed; much of the material used gives a fair working knowledge of the simple elements in cost accounting. Thursday, 7:00-9:00.

(Two credit hours.)

Cost Accounting.—(Each Semester.) Beginning course.

A working knowledge of Accounting required for entrance.

An exposition of the utility and methods of cost accounts; the problems, elements, and units of cost of various types of business, sources of cost data; measurement of direct costs; methods of apportioning and distributing overhead expenses; organization of cost systems; pre-

sentation and utilization of cost data; studies and reports of cost accounting systems; C. P. A. Problems. Wednesday, 7:00-9:00.

(Two credit hours.)

Business and Banking Finance.—(First Semester.)
Beginning Course.

Relation of finance to business; the financial side of business administration; history and origin of financial transactions; introduction to banking practices and bank work; work of the banker in his relation to the public and industries; stocks and bonds; budgets and financial reports; financial standards, promotion, dividends, and re-organization. Tuesday, 7:00-9:00.

(Two credit hours.)

Business Law.—(Second Semester.) Beginning Course.

Introduction to the customs and laws of trade, business, and finance; detailed study of contracts, bills and notes, bailments, agency, partnership, personal and real property, common carrier, insurance, deeds, mortgages, wills, etc. Many cases are studied to show the application of business law. This is a business man's course and is adapted to conditions here in Akron. Tuesday, 7:00-9:00.

(Two credit hours.)

Salesmanship.—(Second Semester.) Beginning Course.

The role of salesman in modern business; relation of salesmanship and advertising; analyzing the goods, the market and the customers for advertising and selling campaigns; construction of oral and written selling talks; conduct of selling campaigns; sales equipment, sales records and tests of efficiency; essential qualifications of a salesman in various types of manufacturing and wholesale and retail institutions; choosing, training, organizing and supervising salesmen; ethics of salesmanship. Wednesday, 7:00-9:00.

(Two credit hours.)

CLASS B COURSE

Advertising—(First Semester), Thursday Evening, 7:30 to 8:30 P. M.

A practical course in advertising for men working in the advertising field will be given by some of the best

trained men in the various kinds of advertising in Akron and other parts of the country. Some of the phases to be discussed are:

Historical development of advertising, the tools of advertising, use and abuse of color, mediums and the facts that determine their value to the advertiser, sales and advertising research and analysis, the preparation of copy, tested appeals that secure attention, visualizing your audience before you select the type of appeal to be used, testing the strength of the appeal, bad practices, the ethics of advertising, the future of advertising, and the legal side of advertising.

A partial list of the men who will talk on these subjects is as follows:

- Gordon Cook,
Advertising Counselor-Director.
- James Braden,
Commerical Printing & Lithographing Co.
- John G. Jones,
Alexander Hamilton Institute.
- Clarence Rohrich,
Akron Engraving Company.
- James Russell,
Superior Printing Company.
- M. M. Dice,
Commerical Printing & Lithographing Co.
- L. L. King,
Goodyear Tire & Rubber Company.
- W. E. Bryan,
Akron Advertising Club.
- W. S. Campbell,
Miller Tire & Rubber Company.
- David L. Brown,
Goodyear Tire & Rubber Company.
- Hon. C. L. Knight,
The Akron Beacon Journal.
- E. C. Tibbetts,
Wm. H. Rankin Company.
- E. S. Babcox,
India Rubber Review.
-

E. D. Gibbs,
B. F. Goodrich Rubber Company.
Nelson Amsden,
Amsden Studios.

PHYSICS

PROFESSOR HOUSEHOLDER

Heat. (First Semester.)

A course of lectures and problems on the theory of heat open only to students who have had a course in High School Physics or to those who have had some experience in heat engineering.

Elementary thermodynamics will receive considerable attention. No calculus will be required. A strictly practical course covering the topics of heat transference, heat measurement, heating systems and the elementary principles of steam and gas engines and of refrigeration plants. Thursday, 7:00-9:00.

(Two credit hours.)

Modern Physical Theories. (Second Semester.)

A popular course open to all who have had a general introductory course in Physics. The course will be largely descriptive and qualitative. No mathematics required. Especial emphasis will be placed on the part the electron is believed to play in everyday physical phenomena. Thursday, 7:00-9:00.

(Two credit hours.)

BIOLOGY

MISS FRIEDLANDER

*Heredity.—(First Semester.)

Open to both men and women. This course will take up for consideration the facts and principles of heredity as brought out by observation and breeding experiments in the last twenty years. Special emphasis will be laid on scientific accuracy though the course will be kept as free from technicalities as possible. No prerequisite. Tuesday, 7:00-9:00.

(Two credit hours.)

***Human Biology.—(Second Semester.)**

Recitations, lectures, laboratory work and reference reading, two hours per week. A study of the human mechanism, considering its essential internal processes and broader environmental relationships, with special reference to personal health and fitness for the task of efficient living. Tuesday, 7:00-9:00.

(Two credit hours.)

***Fundamentals of Biology.—(First Semester.)**

For description look under Psychology and Education, page 164. Tuesday, 7:00-9:00.

(Two credit hours.)

MATHEMATICS AND ENGINEERING.

PROFESSOR JONES
PROFESSOR EGBERT
ASSISTANT-PROFESSOR DURST
MR. BULGER

Mathematics of Investments.—(Both Semesters.)

The course will include studies in the following subjects: Interest, Annuities, Valuation of bonds and other securities; Depreciation, Amortization, Building & Loan Association Funds. These subjects will be conducted by means of formulas, tables, graphs and other general and special methods of Arithmetic and Algebra.

Prerequisite: Elementary Algebra. Wednesday, 7:00-9:00.

(Two credit hours.)

HOME ECONOMICS

PROFESSOR STIMMEL
MISS STINSON

Foods.—(First Semester.)

Laboratory work in foods, their preparation, nutritive values, and comparative costs. Thursday, 7:00-9:00.

(One credit hour.)

Foods.—(Second Semester.)

Continuation of first semester's work. Thursday, 7:00-9:00.

(One credit hour.)

(An additional fee of \$3.75 will be charged each semester to cover cost of materials used.)

Housewives' Class in Table and Meal Service.—(First Semester.)

Planning, buying and serving of balanced meals, and computing cost. Setting of table, and table service. Monday, 1:00-5:00.

(One credit hour.)

Housewives' Class in Table and Meal Service.—(Second Semester.)

Repetition of first semester's work. Monday, 1:00 to 7:00.

(Two credit hours.)

PSYCHOLOGY AND EDUCATION

DEAN BANKES
SUPERINTENDENT REED
PROFESSOR PLOWMAN
PROFESSOR HAYES
ASSISTANT-PROFESSOR PEASE
MISS CUSHMAN
MR. HECK
MISS BENNETT
MRS. MACKINNON

In addition to courses in **Psychology and Education and Methods and Teaching**, all Extension subjects listed in the courses of study (starred) leading to a degree in the Teachers College will be accepted by Teachers College.

Educational Psychology I.—(First Semester.)

A study of misunderstandings, illusions, tact, open-mindedness, changing concepts, pitfalls of reasoning, personality, imagery, character, work saved from drudgery, loyalty, discouragement, choosing vocations. Tuesday, 7:00-9:00.

(Two credit hours.)

Educational Psychology II.—(Second Semester.)

This course will deal with the relation of Psychology to Pedagogy. The following topics will be considered: The nervous system and its relation to education; human instincts and their relation to learning; play activities and work; experiences as suggestive levels; imitative behavior and learning; habit; feelings; laws of mental growth; training. Tuesday, 7:00-9:00.

(Two credit hours.)

Child Psychology.—(Second Semester.)

Biological perspective: The child as a product of his instincts and emotions, epochs of ontogenetic development, origin and significance of play, the three theories of the play instinct, child's responses, imitation and self assertion, appearance and significance of the social instincts. The aim of the course is to give a basis for the intelligent management of the child, for adjustment of school tasks and activities to his interests and ability as well as for better supervision of his learning. Saturday, 10:00-12:00.

(Two credit hours.)

Psychology of Adolescence.—(First Semester.)

The meaning of adolescence; transition from the individualistic stage to the social stage in play and work; evolution of moral and ethical conduct; sex and social behavior; linguistic development of children; children's drawings and their significance; juvenile delinquency; general mental development; peculiarities of the period. Saturday, 8:00-10:00.

(Two credit hours.)

Psychology of the Exceptional Child I.—(First Semester.)

This course is designed to give a scientific basis for the education of children who deviate from the normal. The subjects of precocity, backwardness, nervous instability, peculiar intellectual defects, delinquency, etc., will receive attention. The subject of the bright and gifted child, and the proper methods used in placement and instruct-

ion in the public school classes will be discussed. The general aim of the course will be to develop methods in the treatment and education of the exceptional child. Thursday, 7:00-9:00.

(Two credit hours.)

Psychology of the Exceptional Child II.—(Second Semester.)

Continuation of Psychology of the Exceptional Child I. Thursday, 7:00-9:00.

(Two credit hours.)

Psychology of Learning.—(Second Semester.)

This course consists of a study of the stages of development in the learning process; a detailed study of the processes involved in each of the school subjects; nature of the different kinds of learning; practice and the work curve; retention and forgetting; technique of mechanical learning; training of memory; transfer; individual and age differences; incentives; investigations and reports upon the literature of the field. Problem method will be used. Open to advanced students. Wednesday, 7:00-9:00.

(Two credit hours.)

History of Psychology.—(First Semester.)

Conceptions of the self as expressed or implied in various philosophic systems, ancient, medieval and modern; contribution of each system to modern psychology. Open to advanced students who have had General Psychology 1101 as listed in general catalog. Wednesday, 7:00-9:00.

(Two credit hours.)

Psychology of the Common Branches.—(Second Semester.)

The aim of the course is to prepare the student to understand and make scientific application of the general principles of psychology to the teaching of the common branches. A study will be made of the methods by which

the child learns to read, write, draw, and grasp the meaning of arithmetic, geography, history, science, and his related activities.

Reports on observations made in the public schools will be expected from the students. A detailed study will be made of the stages of progress in several school subjects. Tuesday, 7:00-9:00.

(Two credit hours.)

Educational Measurements I.—(Both Semesters.)

Brief study of present school marks; different kinds of tests in use; measuring ability in arithmetic, reading, spelling, handwriting, history, geography, language, etc.; elementary facts in use in statistics; use to be made of test results. First Semester, Tuesday, 7:00-9:00. Second Semester, Saturday, 10:00-12:00.

(Two credit hours.)

Educational Measurements II.—(Both Semesters.)

Continuation of Educational Measurements I. First Semester, Saturday, 10:00-12:00. Second Semester, Tuesday, 7:00-9:00.

(Two credit hours.)

Current Educational Movements.—(First Semester.)

Discussion and study of the various movements in educational practice, and the fundamental causes for these movements; intensive study of a few of the school systems of the East and Middle West by means of reports upon the available literature; a careful analysis of such school organizations as the Batavia Plan, Platoon Plan, 8-4 Plan, 6-6 Plan, 6-3-3 Plan; compulsory attendance, extension of school activities and similar problems will be discussed. Open to advanced students. Wednesday, 7:00-9:00.

(Two credit hours.)

Modern Elementary School Practices.—(First Semester.)

Investigation of methods used by the most successful teachers in the various elementary school subjects; a careful analysis of the underlying principles of such teaching; a study of special methods in reading, spelling, geography,

history and arithmetic; factors in the selection of material and subject matter; routine phases of school room practice; supervised study; use of text book; lecture method; testing vs. teaching; care and use of outside material. Tuesday, 7:00-9:00.

(Two credit hours.)

Educational Sociology.—(Second Semester.)

A study of social movements, social institutions, and social measurement in their relation to education. Saturday, 10:00-12:00.

(Two credit hours.)

Social Occupations.—(Second Semester.)

A study of occupational, professional and personal service groups in modern society; the evolution and interdependence of these groups; types of temperament and character adapted to each. The course aims to provide a solid support for intelligent vocational guidance. Thursday, 7:00-9:00.

(Two credit hours.)

History of Education.—(First Semester.)

A study of the development of educational thought and practice from ancient to modern times. The course is planned to give the student a background and perspective from which to understand present educational problems. Readings, discussions and special reports. Tuesday, 7:00-9:00.

(Two credit hours.)

History of Education in United States.—(Second Semester.)

European background followed by history of public education in the United States. Saturday, 8:00-10:00.

(Two credit hours.)

Introduction to Scientific Study of Education.—(First Semester.)

Meaning and aim of scientific evaluation of school room practices; historic background of such studies as have been made; survey of the various methods of instruction

with special reference to the underlying scientific basis for promotion and classification; rating of teachers. The aim of the course will be to prepare the student to understand the scientific basis for various methods in educational practice. Saturday, 10:00-12:00.

(Two credit hours.)

Biological Aspects of Education.—(First Semester.)

The aim of the course is to give a biological and hygienic background for education. The course will consist of a study and discussion of the fundamental principles of biology as related to physical and mental growth; hygiene of school life, corrective mental hygiene, motor and mental activities, rest and work periods, efficiency. Problems in social hygiene, eugenics, sex-education, and those arising in the school and community will be discussed. Wednesday, 7:00-9:00.

(Two credit hours.)

Fundamentals of Biology.—(First Semester.)

Lectures, with a considerable amount of reference reading, dealing in a non-technical way with the broader and more interesting problems of this science. Such subjects as Life, Growth, Motility, Sense, The Living Machine, Why Things Grow Old, Renewal of Life, Heredity, Eugenics, etc., are studied, in order that the student may acquire a more comprehensive understanding of the whole field of Biology. Tuesday, 7:00-9:00.

(Two credit hours.)

Use of Library.—(Second Semester.)

Lectures on the history, administration, management and technique of school libraries, book selection and children's literature, instruction to pupils in the use of libraries, correlation of the library with the curriculum, and facilities for teacher-librarian training. The course aims to present in broad outline the problems of the school library and to introduce the teacher to the material available for the solution of those problems. Thursday, 7:00-9:00.

(Two credit hours.)

Story Telling I.—(Both Semesters.)

In recent years story telling has become a significant movement in the field of education. This is because of the growing feeling that the study and practice of story telling, of how to tell the right story at the right time in the right way, probably develops in the student the power of self-expression more than does any other form of speech education.

The course covers the history, uses, materials, and technique of story telling.

Recitations, speeches, conferences. Dramatization once a month.

First Semester, Wednesday, 7:00-9:00. Second Semester, Saturday, 8:00-10:00.

(Two credit hours.)

Story Telling II.—(Both Semesters.)

Continuation of Story Telling I. First Semester, Saturday, 8:00-10:00. Second Semester, Wednesday, 7:00-9:00.

(Two credit hours.)

History of English Literature.—(Both Semesters.)

An introductory survey of English literature given by means of lectures, assigned readings, reports, and class discussions. Important writers and their works will be associated with historical movements and literary currents. Thursday, 7:00-9:00.

(Two credit hours each semester.)

METHODS AND TEACHING

	DEAN BANKES
PROFESSOR HAYES	ASSISTANT-SUPERINTENDENT McELROY
PROFESSOR JONES	MISS GLOVER
PROFESSOR BULGER	MISS HOOVER
ASSISTANT-PROFESSOR PEASE	MISS KENNISTON

Methods in Aldine Reading.—(First Semester.)

A course offered primarily for teachers in service.

The Aldine Method will be followed closely. Saturday, 8:00-10:00.

(Two credit hours.)

Primary Methods.—(Second Semester.)

A course in the general methods pertaining to the work of primary teachers. Materials for construction work, methods and devices for use in the primary grades and the application of psychological principles to Primary Education. Saturday, 8:00-10:00.

(Two credit hours.)

Methods in Teaching Language.—(First Semester.)

A course for elementary teachers. Methods and devices for teaching; study of the Language curriculum of Akron and the application of principles of teaching. Saturday, 10:00-12:00.

(Two credit hours.)

Literature for the Grades.—(First Semester.)

A careful study of the best selections of literature as suited to the various grades in the Public Schools. Special emphasis will be given to the appreciation of the selections and proper methods of presentation to the pupils. Tuesday, 7:00-9:00.

(Two credit hours.)

Methods in Arithmetic.—(First Semester.)

Methods and devices for teaching Arithmetic; its place in the curriculum for the various grades. Tuesday, 7:00-9:00.

(Two credit hours.)

Public School Music I.—(First Semester.)

Principles of teaching music in the public Schools with careful attention to the fundamentals of music and methods successfully used in the class room. Special attention given to ear-training; dictation; elementary harmony; and music appreciation. Wednesday, 7:00-9:00.

(Two credit hours.)

Public School Music II.—(Second Semester.)

Continuation of Public School Music I. Wednesday, 7:00-9:00.

(Two credit hours.)

Methods in Elementary History.—(Second Semester.)

A course in methods and devices for teaching elementary history in the grades. Particular attention to course of study in history and use of materials in teaching the subject. Tuesday, 7:00-9:00.

(Two credit hours.)

Principles of Instruction in Secondary Education.—(First Semester.)

This course deals with the basis of methods, in high school instruction; fundamental principles of learning; aims in instruction; the class exercise; modes of recitation; lesson development; lesson organization; standards in instruction; relation between individual and social instruction. Tuesday, 7:00-9:00.

(Two credit hours.)

Methods in High School Science.—(Second Semester)

This course will deal with the history and methods of teaching the high school sciences. Tuesday, 7:00-9:00.

(Two credit hours.)

Methods in High School Mathematics.—(Second Semester.)

This course will deal with the history and methods of teaching high school mathematics. Thursday, 7:00-9:00.

(Two credit hours.)

Methods in High School English.—(Both Semesters.)

This is a course for teachers and prospective teachers of English in Junior and Senior High Schools. In the first semester the emphasis will be on the problems and methods of composition; and in the second, on the appreciation and practical uses of literature. Contact with present theory and practice will be given by lectures and assigned readings. Wednesday, 7:00-9:00.

(Two credit hours each semester)

Methods in Modern Language.—(First Semester.)

What is Language? Purpose of study of languages. Importance of work in the first year. Principles of Language teaching. Investigation of grammars and texts. Thursday, 7:00-9:00.

(First Semester.)

Home and School Crafts.—(Both Semesters.)

Book binding: elementary steps of sewing and binding; two problems; one book sewed over tapes; one, over rope.

Principles of construction: one problem, construction of portfolio to hold Design Plates, etc.

Study of designs and their application in relation to home crafts. First problem: linen sampler, showing various types of needlework. Second problem: Design Plates, two or more, one in pencil, one in water color. Practical application of design to household accessories: table runners, towels, line bags, etc.

Study of block prints and stencils. Design plate of each. Practical application. Wednesday, 7:00-9:00.

(Two credit hours.)

Methods for the Continuation School Teacher.—(First Semester.)

A study of the development of Part-time Education (dating from the early English apprenticeship system), of the Federal and State laws bearing on Part-time Education, of organization plans, of the in-school and out-of-school pupils, of psychological and pedagogical factors. Tuesday, 7:00-9:00.

(Two credit hours.)

Methods for the Continuation School Teacher.—(Second Semester.)

Study of the relative importance of subject matter, including both academic and shop subjects. Development of course of study by groups. A thesis on the subject or one of its phases. Tuesday, 7:00-9:00.

(Two credit hours.)

EXTENSION CLASSES
FIRST SEMESTER 1922-1923.

Tuesday, 7:00-9:00, P. M.

- *Modern Elementary School Practice.
- *Educational Measurements I.
- *Fundamentals of Biology.
- *Methods in Arithmetic.
- *Methods for the Continuation School Teacher.
- *Literature for the Grades.
- *Principles of Instruction in Secondary Education.
- *Educational Psychology I.
- *History of Education.
- *First Year French.
- *First Year Spanish
- *Speech, Elementary Course.
- *Brief Course in Economics.
Business and Banking Finance.
- *Heredity.

Wednesday, 7:00-9:00, P. M.

- *Methods in High School English.
- *Home and School Crafts.
- *Story Telling I.
- *Public School Music I.
- *Biological Aspects of Education.
- *Current Educational Movements.
- *History of Psychology.
- *History of American Literature.
Practical Writing.
Applied Sociology.
Bookkeeping and Accounting.
Cost Accounting.
Mathematics of Investments.

Thursday, 7:00-9:00, P. M.

- *Psychology of the Exceptional Child I.
- *Methods in Modern Languages.
- *History of English Literature.
- *Second Year Spanish.
Story Telling in the Home and Sunday School.
- *Speech, Advanced Course.
Accounting.

Advertising, Class B Course.
 Modern Physical Theories.
 Foods.

Saturday, 8:00-10:00, A. M.

*Story Telling II.
 *Methods in Aldine Reading.
 *Psychology of Adolescence.

Saturday, 10:00-12:00, A. M.

*Educational Measurements II.
 *Methods in Teaching Language.
 *Instruction to the Scientific Study of Education.

SECOND SEMESTER 1922-1923.

Tuesday, 7:00-9:00, P. M.

*Psychology of the Common Branches.
 *Educational Measurements II.
 *Methods in Elementary History.
 *Methods for the Continuation School Teacher.
 *Educational Psychology II
 *Methods in High School Science.
 *First Year French.
 *First Year Spanish.
 *Speech, Advanced Course.
 *International Political Problems.
 Business Law.
 Human Biology.

Wednesday, 7:00-9:00, P. M.

*Psychology of Learning.
 *Home and School Crafts.
 *Story Telling II.
 *Public School Music II.
 *Methods in High School English.
 *History of American Literature.
 Practical Writing.
 Practical Psychology.
 Bookkeeping and Accounting.
 Cost Accounting.
 Salesmanship.
 Mathematics of Investments.

Thursday, 7:00-9:00, P. M.

- *Psychology of the Exceptional Child II.
- *Methods in High School Mathematics.
- *Use of Library.
- *Social Occupations.
- *History of English Literature.
- *Second Year Spanish.
- Story Telling in Home and Sunday School.
- *Speech, Elementary Course.
- Accounting
- Heat.
- Foods.

Saturday, 8:00-10:00, A. M.

- *History of Education in the United States.
- *Story Telling I.
- *Primary Methods.

Saturday, 10:00-12:00, A. M.

- *Educational Measurements I.
- *Child Psychology.
- *Educational Sociology.

PHYSICAL EDUCATION

Physical Training—(Both Semesters.)

The course includes setting up exercises, indoor baseball, basketball, and other games of interest to men of the city. This course is especially designed for business men.
Tuesday, 7:00 to 9:00. (No credit.)

THE UNIVERSITY LECTURES

1922-1923.

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

For the season of 1922-1923 a list of lectures has been prepared from which any lecture or lectures may be chosen. They will be given before any society or organization or responsible body of citizens who may desire to hear them. The conditions are as follows:

1. The lectures are to be given at dates to be mutually agreed upon with the Chairman of the Lecture Committee.
2. The Chairman of the Lecture Committee must be notified by the organization at least two weeks before the time of giving the lecture.
3. The organization requesting the lectures shall provide a suitable place for holding them and no admission fee shall be charged.

1. The Evolution of Education.
2. The Municipal University and the City.
3. Hawaii.

PRESIDENT P. R. KOLBE

4. An Educational or Engineering Subject.

DEAN F. E. AYER

5. The Chemistry of Digestion.
6. The Chemistry of Explosives.

PROFESSOR R. H. SCHMIDT

7. Contemporary British Prose.

MR. E. B. HOWE

8. "Bond or Free?"
9. "What's the Trump?"
PROFESSOR O. E. OLIN
10. An Historical Subject.
DEAN E. A. THOMPSON
11. Why Go to College?
DEAN A. I. SPANTON
12. The Business of Being a Housekeeper.
DIRECTOR SARAH E. STIMMEL
13. The Present Return to Classical Types of Architecture.
PROFESSOR J. C. ROCKWELL
14. An Economic Subject.
PROFESSOR THOMAS L. McJOYNT
15. A Business Subject.
PROFESSOR L. M. McDERMOTT
16. Biological and Public Health Topics.
PROFESSOR A. B. PLOWMAN
17. Has the United States a Foreign Policy?
18. Government Action for Social Welfare.
PROFESSOR E. W. CRECRAFT
19. What are Your Limitations?
20. The Nation and Her Boys.
PROFESSOR G. L. HAYES
21. The Boy and His Gang.
22. The Place of the Teachers College in the City of Akron.
DEAN W. J. BANKES

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

COMBINATION COURSES

No student will be recommended for a combination course with any other institution unless his average grade for his three years' work in the University of Akron is at least 85%.

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.

By means of a five-year combination course degrees may be gained from both the School of Home Economics and the Teachers College. For details of this course see page 127.

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 with certain professional schools of the State University. By means of such a course, the student is enabled to shorten by one year the six to eight year period otherwise necessary for the acquirement of both college and professional degrees and training. Generally speaking, the plan contemplates an attendance of three years at the University of Akron with an additional

two or three years (depending on the subject chosen) at the State University. During the fourth year of his course (i. e., the first year at Ohio 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 Bachelor's degree 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 the University. 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 before entering the Ohio State University.

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

3. A major, if chosen in Buchtel College of Liberal Arts, must lead 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.

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 the University.

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

**Combination Arts-Agriculture Course
Three years at the University of Akron**

FIRST YEAR

First Semester		Second Semester	
English 51	3	English 52	3
Mod. Lang.	4	Mod. Lang.	4
Chem. 353	4	Chem. 354	4
Hygiene	1	Current Events	1
Mathematics 301	4	Mathematics 302	4
Physical and Military		Physical and Military	
Training	2	Training	2
	<u>18</u>		<u>18</u>

SECOND YEAR

First Semester		Second Semester	
English 53	2	English 54	2
Biology 401	4	Biology 402	4
Mod. Lang.	3 or 4	Mod. Lang.	3 or 4
Physical and Military		Physical and Military	
Training	2	Training	2
	<u>11 or 12</u>		<u>11 or 12</u>

THIRD YEAR

First Semester		Second Semester	
Polit. Economy 251	3	Polit. Economy 252	3
Physics 331	4	Physics 332	4
Vascular Plants 405	4	Embryology 404	4
Geology 417	3		
	<u>14</u>		<u>11</u>

In addition enough elective work to complete at least 96 hours, including major and minor requirements.

Two years at the Ohio State University

A student must complete forty-five quarter hours of work during each of the two years at Ohio State University. This time is to be devoted entirely to agricultural subjects and must include at least one quarter's work in agricultural chemistry, agricultural engineering, animal husbandry, dairying, entomology, farm crops, horticulture, poultry husbandry, rural economics, and soils. He must also select a major subject in which he takes four consecutive quarters of work. In addition he will select sufficient agricultural work to complete at least 90 quarter hours.

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. Admission to the School of Medicine is not guaranteed to all applicants, since only a limited number can be accommodated. Application about June 1 for the following academic year is desirable.

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

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

Course who has not received sufficient credit at the Western Reserve University to complete a total of 128 term hours of work.

Subject Requirements in Buchtel College of Liberal Arts

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

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

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

(A) Chemistry: The equivalent of at least one and a half years of college work of a value of not less than 12 semester hours, of which at least 3 semester hours must be Organic Chemistry. The 12 semester hours must include at least 5 semester hours of laboratory work of which 1 hour must be Organic Chemistry.

(B) Physics: The equivalent of at least one year of collegiate work of a value of not less than 8 semester hours, of which at least 2 semester hours shall be laboratory.

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

It is strongly urged that prospective medical students take, in addition to the required minimum of Biology as stated, a course of at least three semester hours in Comparative Vertebrate Anatomy, inasmuch as this course is not given in the medical curriculum.

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

(E) English: A total of not less than 6 semester hours.

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, Chemistry, 4 hours, Physics with Lab., 10 hours, German or French sufficient to make with freshman work a total of at least 8 term hours.

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

4. COMBINATION COURSES WITH OTHER SCHOOLS

The Arts-Nursing Course

Any student who has been in residence at the University of Akron for at least three years, and who has made an average grade of 85% in at least 96 hours in the regular course in Buchtel College, with major in Biology, may receive the degree of B. S. from the University of Akron upon the satisfactory completion of the course in any first-grade training school for nurses.

By this arrangement it is made possible for the candidate to secure both the college degree and the Nurse's Certificate in six years.

Such an arrangement has been definitely entered into with Lakeside Hospital Training School for Nurses, Cleveland.

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 the University of Akron 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.

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 is 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 are substituted in the various courses for purely theoretical work, since the University considers this training as one of the most important branches of its activity.

DIVISIONS OF CO-OPERATIVE WORK

The work properly falls under two heads:

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

I. SPECIAL ORGANIZATIONS

The Bureau of City Tests

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

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

companies, for the purpose of training men for service in their laboratories.

Extension Courses

The University offered courses in the following subjects in late afternoon and evening classes to the people of Akron during the academic year 1921-22.

Modern Elementary School Practice	Advertising
Social Psychology	Mechanics
Story Telling	Astronomy
First French	Foods
First Spanish	School Administration
English Novel	Psychology of the Exceptional Child
Expression	Teaching Elementary Science
Cost Accounting	Psychology of Adolescence
Heredity	Educational Measurements
Algebra	Teaching Geography
Surveying	Human Biology
Educational Psychology	Salesmanship
Story Telling	Trigonometry
Current Educational Movements	Surveying
Teaching Community Civics	Hygiene of the Child
Second French	Business English
Second Spanish	Classics on Civilization
History of English Literature	Applied Psychology
Sociology	Business Law
Political Science	Library
Accounting	History of Education
Business and Banking Finance	Primary Methods
Child Psychology	Social Service

In addition to these courses the University has co-operated with the Federal Board of Education in the offering of Trade Mathematics, Trade English, Shop Mathematics and Trade Science.

Teachers College

The Teachers College is organized under the joint management of the Akron Board of Education and the Directors of the University. The general oversight of the Teachers College is in charge of the President of the University and the Superintendent of Schools. The work is specifically organized for the following purposes:

(a) The preparation and training of teachers for the Akron Public School System.

(b) The professional improvement of teachers already engaged in the Public School service.

(c) The study of educational problems.

In general, the Teachers College is expected to achieve a threefold purpose. The first of these is the affiliation of teacher training with the various colleges of the University which gives opportunity to all teachers in training to receive academic preparation along with the professional training. The second purpose is to increase very considerably the opportunities for continued training to teachers already in service. Late afternoon, evening and Saturday courses are offered for those who wish them. The third purpose is to increase the closeness of connections between teacher training, instructional, supervisory and administrative forces of the city. The really vital problems of education may thus be studied by all who represent these forces. In this way the vigorous progressive phases of school work in the city will be reflected in the training courses, and the study of these problems by the Teachers College will bring suggestions for methods in teaching, for new forms of training, and for various modifications of school work. All students are under the rules governing students of the University and are entitled to all the privileges of the institution. Students are required to do practice teaching in the Akron schools for one semester.

An arrangement has been made by which the trade teacher training courses offered by the State and Federal Government are given in Teachers College.

Each summer an Americanization Institute for the instruction of teachers employed in this department of Public School work is held at the University. Among subjects treated are: Organization and Administration, Racial Background, Citizenship, Methods of Teaching English to the Adult Foreign-born, etc.

REGISTER OF STUDENTS

BUCHTEL COLLEGE OF LIBERAL ARTS

1921-1922

GRADUATE STUDENTS

Alderfer, Ruth Emma	Akron
A. B. Western Reserve University.	
Collins, Ernest Hobart	Akron
A. B., William Jewell College.	
Costa, Augusto Ferreira da	Brazil
San Paulo Polytechnic Institute.	
Cushman, Josephine Amanda	Akron
B. L. S., University of Illinois.	
Fox, Rolland David	Akron
B. S., Municipal University of Akron.	
Noonan, Miriam Esther	Akron
A. B., St. Elizabeth College.	
Sawyer, Robert Voris	Akron
B. S., Municipal University of Akron.	
Slutz, Maurice	Akron
D. D. S., Cincinnati Dental College.	
Snyder, Harold LaVerne	Akron
B. S., Municipal University of Akron.	
Tobin, Mrs. Paul	Akron
A. B., Western Reserve University.	

Total 10—Men 6
Women 4

SENIOR CLASS

Course

Allaman, Mary E	A. B.	Akron
Beer, Alice A	A. B.	Akron
Blower, William	A. B.	Akron
Bohl, Ray A	B. S.	Akron
Brockett, Warren	B. S.	Akron
Busenburg, Earl B	B. S.	Akron
Carney, Lynn A	A. B.	Akron
Christensen, Chester W	B. S.	Akron
Daum, Carl V	A. B.	Akron
Davies, John Morris	B. S.	Akron
Davis, Adrian E	B. S.	Akron
DePue, Jonathan W	A. B.	Akron
Dunford, Emerson H	A. B.	Akron
Eckert, Herman Kraft	B. S.	Akron
Froebe, John Albert	A. B.	Akron
Ganyard, Gladys M	A. B.	Everett
Green, Alice Lorena	A. B.	Akron

Guckeyson, Harry C.	A. B.	Akron
Ladd, Robert Huffman	B. S.	Akron
Lancaster, Raymond D.	B. S.	Akron
Laushell, Edward Lee	B. S.	Louisville, Ky.
Leland, Maxine	A. B.	Akron
Markle, Geraldine	A. B.	Akron
Marsh, Dorothy Lillian	A. B.	Akron
Melvin, Willard	B. S.	Akron
Moore, James Howard	B. S.	Akron
Rothrock, Mary Jane	A. B.	Akron
Rotruck, Anne Ellis	A. B.	Akron
Schaufele, Lucille	A. B.	Barberton
Stump, Walter H.	A. B.	Akron
Thesing, Anne Mary	A. B.	Barberton
Thomas, Harold Irwin	A. B.	Wooster
Thornbury, Purla	A. B.	Jenkins, Ky.
Town, Arno Emerson	B. S.	Barberton
Van Hying, Conrad	A. B.	Akron
Wagner, Anna	A. B.	Akron
Waldkirch, Earl	B. S.	Akron
Waltz, Lois A.	B. S.	Akron
Warren, Arthur H.	A. B.	Kingston, N. Y.
Washburn, Margaret	A. B.	Akron
Weaver, Marion	B. S.	Akron
Total 41—Men		26
		Women 15

JUNIOR CLASS

Andrus, James R.	A. B.	Akron
Arenson, Anna	B. S.	Akron
Armstrong, Dorothy	A. B.	Akron
Bacon, Wendell Earle	B. S.	Akron
Betzler, Alma Elizabeth	A. B.	Akron
Bishop, Alfred Elden	B. S.	East Akron
Blackburn, Alene Metta	A. B.	Akron
Bliley, Clarence James	A. B.	Akron
Bond, Jesse H.	B. S.	Akron
Brewster, Albert James	A. B.	Akron
Burr, Marian	A. B.	Akron
Caspari, Marie B.	A. B.	Akron
Chamberlain, Gladys	A. B.	Akron
Colley, Charles Harold	A. B.	Akron
Cray, Edith Grace	A. B.	Akron
Darraha, Donald Carlton	B. S.	Akron
Davis, Anna	A. B.	Akron
Dunckley, Sarah E.	B. S.	Akron
Ellis, Robert David	B. S.	East Akron
Fidler, Tillie	B. S.	Akron
Harper, Robert	A. B.	Wadsworth
Harry, J. Glenard	B. S.	Akron
Hawk, Ada	A. B.	Akron
Heckler, M. Howard	B. S.	Akron
Heller, Dorothy Jeannette	A. B.	Akron

REGISTER

Hess, Carl Adelbert.....	A. B.....	Akron
Hilbish, Russell.....	A. B.....	Akron
Hill, Clarence Faloon.....	B. S.....	Akron
Hoelzer, C. Edward.....	A. B.....	Akron
Huren, Genevieve.....	A. B.....	Cuyahoga Falls
Irish, Everett A.....	B. S.....	Akron
Johnson, Henry B.....	A. B.....	Akron
Keating, Sara Florine.....	A. B.....	Akron
Knowlton, Frank W.....	A. B.....	Akron
Lawrence, Don St. Clair.....	A. B.....	Akron
Lizawetsky, Bessie.....	A. B.....	Akron
Long, MacDennis.....	A. B.....	Akron
Major, Floyd.....	A. B.....	Akron
Mason, Ruth Elizabeth.....	A. B.....	Akron
Milford, Howard Gomer.....	B. S.....	Akron
McCormick, Edward.....	A. B.....	Akron
Naugle, Jacob Vivian.....	A. B.....	Akron
Pierce, Lois Kepler.....	A. B.....	Akron
Poulson, Carl W.....	A. B.....	Akron
Purdy, Nellie L.....	B. S.....	Akron
Quick, Ralph E.....	A. B.....	Akron
Robart, Wilbur C.....	B. S.....	Akron
Ruch, Elden H.....	B. S.....	Akron
Shank, Dorothy D.....	A. B.....	Akron
Shreiner, Claude LaMonte.....	B. S.....	Barberton
Smith, Evelyn.....	B. S.....	Cuyahoga Falls
Snyder, Catherine.....	A. B.....	Akron
Snyder, Robert D.....	B. S.....	Akron
Spencer, Addison.....	A. B.....	Auburn, Ala.
Swigel, Emilie.....	A. B.....	Akron
Waite, Evelyn.....	A. B.....	Akron
Williams, Hollie.....	B. S.....	Akron
Wooddell, Florence.....	A. B.....	Akron
Woozley, Florence.....	A. B.....	Akron
Total 59—Men		33
		Women 26

SOPHOMORE CLASS

Ackley, Ruth.....	A. B.....	Akron
Appleget, Norma.....	A. B.....	Akron
Averell, Natalie Eleanor.....	B. S.....	Akron
Barnes, Sidney Wilson.....	B. S.....	Tallmadge
Bennett, Luther Harold.....	B. S.....	Akron
Beyerle, Rhea Elma.....	A. B.....	Akron
Bordner, Ada.....	B. S.....	Akron
Brant, Claude Carson.....	A. B.....	Akron
Breitenbucher, Jacques.....	B. S.....	France
Brown, Charles William.....	B. S.....	Akron
Brown, Ruth Blanch.....	A. B.....	Akron
Bunts, Helen Agnes.....	A. B.....	Akron
Bunts, Nellie Mary.....	B. S.....	Akron
Cole, Elizabeth.....	B. S.....	Norwalk
Crews, Violet.....	A. B.....	Akron

-	Dilley, Gilbert W.....	B. S.....	East Akron
-	Dix, Lawrence B.....	B. S.....	Akron
-	Egbert, Viola J.....	A. B.....	Barberton
-	Enright, M. Francis.....	A. B.....	Akron
-	Evans, Wesley Sterling.....	A. B.....	Akron
-	Frampton, Eulalia.....	A. B.....	Akron
-	Geis, Frederic.....	B. S.....	Akron
-	Goodman, Nettie N.....	A. B.....	Akron
-	Haas, Walter.....	A. B.....	Akron
-	Hall, Robert Pare.....	B. S.....	North Fairfield
-	Heller, Glen H.....	B. S.....	Tallmadge
-	Hilton, Garnett McMurray.....	B. S.....	Akron
-	Hollingsworth, Esther.....	A. B.....	Akron
-	Holsinger, Harris William.....	A. B.....	New Enterprise, Pa.
-	Hunt, Schuyler William.....	B. S.....	Akron
-	Jenkins, Verlin.....	A. B.....	Akron
-	Johnson, Albert Hilmar.....	A. B.....	Akron
-	Jordan, Adeline.....	A. B.....	Akron
-	Keating, David Mitchell.....	B. S.....	Akron
-	Kessler, Norman.....	B. S.....	Akron
-	Klingensmith, Barclay Arthur.....	A. B.....	Kittaning, Pa.
-	Kneale, Edna F.....	A. B.....	Akron
-	Kniffin, Hazen G.....	A. B.....	Stryker
-	Knoske, Mildred Kathryn.....	A. B.....	Cuyahoga Falls
-	Krager, Lenore Ethel.....	A. B.....	Akron
-	Kraus, Edward Henry.....	B. S.....	Akron
-	Kregenow, Edwin.....	A. B.....	Boston Mills
-	Krotzer, Walter Farnham.....	A. B.....	Dunmore, Pa.
-	Laudenslager, May.....	A. B.....	Akron
-	Loftus, William.....	A. B.....	Akron
-	Marshall, George A.....	B. S.....	Ravenna
-	Masterson, Kathleen Marie.....	A. B.....	Akron
-	Meeker, Lawrence.....	B. S.....	Kenmore
-	Miller, R. Clinton.....	A. B.....	Akron
-	Minnich, Harold A.....	A. B.....	Barberton
-	Moore, Caroline L.....	A. B.....	Akron
-	Morris, Irvin.....	A. B.....	Akron
-	McChesney, Mark F.....	A. B.....	East Akron
-	McCormish, Thomas.....	B. S.....	Akron
-	MacKinnon, Wallace LeRoy.....	B. S.....	Akron
-	Olin, Haleyon.....	A. B.....	Wadsworth
-	O'Neil, Grace Elizabeth.....	A. B.....	Akron
-	Palmer, George A.....	B. S.....	Akron
-	Place, Pauline.....	A. B.....	Akron
-	Ports, Ruth.....	A. B.....	Akron
-	Raynow, Anna Kathryn.....	A. B.....	Akron
-	Rice, Robert Marshall.....	A. B.....	Akron
-	Rimer, Robert Hall.....	A. B.....	Kenmore
-	Rowley, John Grether.....	A. B.....	Akron
-	Schrank, Harry.....	B. S.....	Akron
-	Shaffer, Gahnelle.....	A. B.....	Akron
-	Shaffer, Joshua Casper.....	B. S.....	Antwerp
-	Shuman, Mary.....	A. B.....	Akron

Stevenson, Elizabeth.....	A. B.....	Akron
Strottner, Leonard.....	B. S.....	Akron
Stump, Carl M.....	B. S.....	Akron
Suloff, John.....	A. B.....	Akron
- Tannar, Virginia.....	A. B.....	Akron
Van Berg, Harry Nelson.....	A. B.....	Akron
Werner, Paul Edward.....	A. B.....	Akron
- Williams, Joe Martin.....	B. S.....	Akron
Wilson, Rebecca Howard.....	A. B.....	Akron
Winer, Sylvia R.....	A. B.....	Akron
Wise, Crile Nicely.....	B. S.....	Akron
- Wolfe, David B.....	B. S.....	Akron
Wortman, John.....	B. S.....	Akron
- Zindle, Edna Marie.....	A. B.....	Akron
Total 82—Men		49
		Women 33

FRESHMAN CLASS

- Aitkenhead, John, Jr.....	Akron
Alexander, Carl.....	Akron
Alexich, Frank.....	Akron
- Arenson, Edward L.....	Akron
- Atwater, David Thomas.....	Akron
Auten, Russell G.....	Akron
Baker, Deming Elmon.....	Akron
Baughman, Janet E.....	Akron
Baumgardner, Donald Mills.....	Akron
Baer, Irene.....	Akron
- Baer, Joseph R.....	Akron
- Bender, Harold Herschel.....	Akron
- Bien, Madelaine E.....	Akron
Blake, Estella.....	Akron
- Bonz, L. Doris.....	Akron
- Boyer, Carl.....	Akron
Bridgewater, Boyd.....	Akron
- Brown, Elizabeth.....	Akron
Brubaker, John.....	Akron
Brueggeman, Walter M.....	Akron
Buehl, Harold Lothman.....	Akron
- Burroughs, Arden.....	Cuyahoga Falls
- Cameron, Evelyn May.....	Akron
- Camp, Marion.....	Akron
Campbell, John Harold.....	Rittman
* Carman, Frank H.....	Barberton
Carnahan, Audra.....	Akron
- Cartwright, Alice.....	Akron
Chambers, Arthur.....	Akron
Chapman, Myron.....	Akron
Childs, Agnes Rose.....	Akron
Christ, Harding Simon.....	Akron
- Clapper, Lucille Martha.....	Everett
- Cook, Adrial Vernon.....	Akron
Cowan, Lester.....	Akron

-	Crankshaw, Harold.....	Akron
✓	Crawford, John Denniston.....	Akron
-	Dashevsky, Ezekial.....	Akron
-	Davidson, Donald.....	Akron
†	Dickerhoof, Ralph Franklin.....	Akron
†	Duncan, Samuel.....	Lakemore
-	Dunford, Esther Bessie.....	Akron
✓	Dunn, Annabel Frances.....	Akron
✓	Dunn, Hazel L.....	Akron
✓	DuPratt, Leola.....	Akron
-	Dysle, Georgia.....	Akron
-	Eberhard, Theodore Philip.....	Akron
-	Ellsworth, Charles Kail.....	Akron
-	Engwall, Conrad A.....	Akron
-	Ewing, Thomas Sharp.....	Akron
-	Evans, Donald.....	Akron
-	Fanning, Margaret.....	Akron
-	Fish, Lola.....	Akron
-	Foltz, Chester K.....	Akron
-	Fouse, Harlan.....	Akron
-	Franklin, Burt.....	Akron
-	Frazer, James Edward.....	Akron
-	Frew, Mildred.....	Akron
-	Geis, Geraldine.....	Akron
-	Gille, Grace.....	Akron
-	Gordan, Clara E.....	Akron
-	Gordon, Julius.....	Cleveland
-	Gould, Myron.....	Cuyahoga Falls
-	Gregg, Margaret Helen.....	Akron
-	Grigsby, Lewis Albert.....	Akron
-	Gross, H. Frank.....	Akron
-	Hagstrom, William Joseph.....	Akron
-	Hanawalt, B. Virginia.....	Akron
✓	Harkins, Kathryn Henrietta.....	Akron
-	Harter, Bessie.....	Akron
-	Hassenflue, Marjorie.....	Akron
-	Hatch, Abbie.....	Akron
-	Hawkins, Charlotte.....	Akron
-	Hay, George B.....	Akron
-	Hazlett, John Leroy.....	Akron
-	Heimbaugh, Harold M.....	Akron
-	Henry, Pauline.....	Akron
-	Hershinow, Della.....	Cuyahoga Falls
-	Hibbard, James Loman.....	Cuyahoga Falls
✓	Hill, Florence.....	Akron
-	Himes, Barbara.....	Akron
-	Hughes, Paul.....	Akron
-	Jenkins, Hayes.....	Akron
-	Jones, John Robert.....	Akron
-	Kalmon, Morris.....	Akron
-	Karam, Adib.....	Akron
✓	Kopf, Lawrence Fay.....	Akron
-	Kraus, Rose Mary.....	Akron

- Kreiner, Dale.....	East Akron
Kreiselman, Benjamin.....	Akron
- Kreitler, M. Elizabeth.....	Akron
✓Kuenzli, Dorothy.....	Akron
Lager, Jack.....	Akron
Leonhard, Gladys.....	Akron
LeMaster, Virginia.....	Akron
Lilliedale, Mervin.....	Akron
Limbach, Oscar.....	New Philadelphia
- Long, Walter.....	Akron
- McCahan, Chester E.....	Akron
McCoy, States D.....	Akron
- McGuckin, James.....	Akron
MacKinnon, John G.....	Akron
- McLaughlin, Florence.....	Akron
- McMurray, L. Aileen.....	Akron
McShaffrey, Regina Agnes.....	Akron
Macrory, Eva R.....	Akron
Mahoney, Harry Leonard.....	Akron
- Martin, G. Wendell.....	Akron
Mason, Kenneth.....	Akron
Matz, James William.....	Akron
- May, Mildred Katharine.....	Akron
- Meacham, Howard Charles.....	Atwater
- Miles, Eleanor Augusta.....	Akron
Miller, Nellie.....	Uniontown
Mitchell, Leonard.....	Akron
Monegan, Esther.....	Akron
- Monegan, Elizabeth.....	Akron
Mong, Harold.....	Barberton
Moodie, Hilda A.....	Akron
Moskovitz, Fred.....	Akron
Myers, Edward Theodore.....	Akron
Nelson, Irvin.....	Akron
Nieman, Helen Esther.....	Akron
Oatts, David James.....	Akron
- Osborn, Raymond.....	Copley
Ott, Russell.....	Barberton
* Palmquist, Dennis William.....	Akron
Parker, Marilla A.....	Kenmore
- Patterson, Dale.....	Barberton
Paul, Winifred Mary.....	Akron
- Penrose, Lawrence Edward.....	Akron
Pfeifle, Nola.....	Akron
- Pflueger, Harriet Julia.....	Akron
- Pressler, Henry Willard.....	East Akron
Reinker, Leona.....	Akron
- Reiter, Harold Franklin.....	Akron
Rhoades, Jessie.....	East Akron
Rhodenbaugh, Charles.....	Akron
- Riley, Blanche.....	Akron
Roberts, Mildred.....	Barberton
- Robinson, Mary Josephine.....	Akron

Robison, Howard Franklin	Akron
Rockwell, Theodore	Akron
Roth, Allen	Akron
Sanderson, Paul Nicholas	Akron
Sapp, Celia	Akron
Sarlson, Mary	Akron
Schlegel, Viola	Akron
Schutz, E. Dorothy	Akron
Shaffer, Raymond Willard	Akron
Sheldon, Frank	Akron
Sherbondy, Lloyd	Copley
Skinner, Charles L.	Akron
Slaven, Paul Owen	Ravenna
Smith, Amelia	Clinton
Smith, George Chatham	Akron
Smith, Lula Henrietta	Akron
Snyder, James Ernest	Akron
Snyder, James I.	Akron
Solomon, Joseph	Akron
Stafford, Ruth Varian	Akron
Stansfield, Edward Howe	Akron
Staub, Alexander	Akron
Steele, Aldine Jeanette	Cuyahoga Falls
Steese, Dorothy Pauline	Akron
Steinmetz, Joseph	Akron
Stevens, Vernon	Tallmadge
Stinaff, Charles Lloyd	Akron
Stilwell, Clair	Akron
Stover, Helen	Akron
Suddleson, Israel	Akron
Taylor, Enoch Marshall	Akron
Taylor, George	Akron
Taylor, Margaret Grace	Cuyahoga Falls
Teeple, Kathryn Susan	Akron
Thomas, Harry Hall	New York, N. Y.
Thorn, Homer Zelle	Akron
Tobin, Mary Ruth	Akron
Treber, Frederick W.	Akron
Tucker, Alice Griffin	Akron
Turpin, Elizabeth	Akron
Walker, Elizabeth	Akron
Walker, Newport Hughes	East Akron
Ward, Paul William	Akron
Warden, William F.	Akron
Weaver, Margaret	Akron
Wells, Alton Revoe	Akron
Weltner, Bernard Hoyt	Akron
Wigley, Florence Agnes	Akron
Wilhelm, Velma E.	Akron
Wilkinson, Sara Burke	Akron
Williams, Frank Curtis	Cuyahoga Falls
Williams, Harrison	Akron
Williams, Theodore Martin	Akron

Williamson, Henry Julius	Cuyahoga Falls
Wilson, J. Francis	Akron
Zink, Margaret E.	Akron
Zahnizer, Russell	Akron
Zimmerman, Karl	Akron
Total 199—Men 119	
Women 80	

IRREGULAR STUDENTS

Akers, Marjorie Stanley	Akron
Barnhardt, Richard	Akron
Brown, Grace	Akron
o Brown, Ross C.	Akron
Brown, Martha Gertrude	Akron
Cope, Harold D.	Bridgeport
Cramer, Ruth	Akron
Dellenberger, Ruth	East Akron
Dilley, Louise	Akron
Epstein, Bessie	Akron
Gross, Orra	Akron
Hallinan, Anna Margaret	Akron
Hanson, Arthur	Akron
Hine, Margaret	Akron
Hine, Welthea M.	Akron
o Hurwitz, Simon	Akron
Ink, Dorothy	Akron
Kerr, Wallace Noell	Akron
o Kroeger, Clarence	Akron
Larouche, Georges	Quebec
Losey, North H.	Akron
Miller, Bert	Akron
o Nice, Dora A.	Kenmore
o Palmer, Alice	Akron
o Replogle, Helen Saeger	Kenmore
Schaffner, Roger R.	Akron
Shafer, Ralph Newton	Akron
Styers, Henry H.	Akron
o Switzer, Charles Carroll	Akron
Thomas, Russell Webster	Akron
> White, Ruth Y.	Akron
o Wilcox, Mary Virginia	Cuyahoga Falls
Williams, Mabel	Akron
Total 33—Men 15	
Women 18	

SPECIAL STUDENTS

Carlson, Joel S.	Akron
o Collins, Josephine	Akron
Corbett, William Henry	New York
o Haslett, Edwin C. Jr.	Akron
Jackson, Robert Marsh	Akron
o Smith, Edward	Akron
Hughes, Mary	Akron

Krash, Marguerite	Akron
Miller, Mary Vesta.....	Akron
Stiller, Layton.....	Akron
Stotler, Gerald Wallace.....	Akron
Walker, Martha Lou.....	Akron
Wilhelm, Gertrude.....	Akron
Total 13—Men 7	
Women 6.	

COLLEGE OF ENGINEERING AND COMMERCE

(C indicates Commerce; E indicates Engineering)

GRADUATE STUDENTS

Cooper, Leslie V.....	Akron
B. S., Municipal University of Akron	
Valentine, Robert Peckham.....	Akron
B. S., Middlebury College	
Williams, Esther Louise.....	Akron
A. B., Wells College	
Wilson, Harold Martin.....	Akron
A. B., Municipal University of Akron	
Total 4—Men 3	
Women 1.	

SENIOR CLASS

Course

Braucher, Fred.....	E	Akron
Cox, Richard Graves.....	E	Cleveland
Grimm, George Burt.....	E	Akron
Hungerford, Courtland.....	E	Akron
Kittelberger, Howard C.....	E	Akron
Lynn, James Elmer.....	E	Akron
Tritt, Forest Gale.....	E	Barberton
Total, Men 7		

JUNIOR CLASS

Cook, Theodore Louis.....	C	Akron
Hoelzer, J. Timothy.....	E	Akron
Hoffman, Lorin J.....	E	Akron
Kalaugher, Arthur J.....	E	Akron
Leffler, Carl P.....	C	Akron
Moehr, Louis Herman.....	E	Akron
Munteanu, Ionel.....	E	Akron
Olin, Albert Doolittle.....	E	Ravenna
Pike, Kenneth.....	E	Ravenna
Porter, Nelson W.....	C	Akron
Pouchot, Helen.....	C	Akron
Reed, Roland F.....	C	Akron
Russ, Henry Augustus.....	E	Wooster
Smith, Harold Frederick.....	E	Akron

REGISTER

Smith, Newman	E	East River, N. Y.
Thorp, Clarence W.	E	Ravenna
Wagner, Charles Paul	E	Marshallville
Wheeler, Henry Enos	E	Akron
Wilt, Roy W.	C	Kenmore
		Total 19—Men 18
		Women 1.

PRE-JUNIOR CLASS

Allaman, Herbert C.	E	Akron
Barnholth, Marcus	E	Akron
Couch, Walter Robert	E	Kent
Cutler, James	E	Akron
Easton, James	E	Akron
Evans, James Alfred	E	Berwick
Fletcher, Laurel Eugene	E	Ravenna
Goodman, Adolph E.	E	Akron
Harris, Thomas Leroy	E	Akron
Heerlein, Joseph Hubert	E	Corry, Pa.
Heminger, Harold R.	E	Kenmore
Hitchcock, James McNeil	E	New Rochelle, N. Y.
Jordan, Francis Joseph	E	Yonkers, N. Y.
Kreinberg, Harold LeRoy	E	Akron
Loomis, Raymond Clifton	E	Akron
Myers, Herbert B.	E	Akron
Olson, Leland Alfred	E	Jamestown, N. Y.
Patterson, William George	E	Akron
Pfeifle, Earl Chester	E	Akron
Plesofsky, Charles	E	Akron
Price, Edward Everett	E	Akron
Rauschenberger, M. Fred	E	Akron
Remmy, Fred W.	E	Akron
Robinson, John Everett	E	Akron
Snider, Elwin Robert	E	Ravenna
Snyder, Russell F.	E	Williamsport, Pa.
Stevens, Paul	E	Metz, W. Va.
St. John, Bertram P.	E	Athol, Mass.
Straub, Harold M.	E	Akron
Teulings, R. Lawrence	E	New Haven, Conn.
Thomas, William H.	E	Akron
Thorp, Clarence W.	E	Ravenna
Ulrich, Albert Jennings	E	Akron
Wilson, Ross Ellsworth	E	Akron
		Total—Men 34

SOPHOMORE CLASS

Abbott, Paul M.	C	Akron
Bachmann, Anthony	C	Akron
Barnes, Harold W.	E	Akron
Bausher, Louis	E	Akron
Benson, Courtney Edward	E	Athol, Mass.
Brooks, Earl F.	E	Akron
Cole, Lester M.	E	Akron

Cooper, Ralph Fenimore.....	E	Akron
Cowling, Richard J.....	E	Akron
Glass, William John.....	E	Akron
Glasheen, Francis David.....	E	Athol, Mass.
Harrington, F. Theodore.....	E	Akron
Herbruck, Howard Willard.....	E	Akron
Hobson, Lewis Howard.....	E	Akron
Howe, F. Donald.....	E	Kent
Hutchison, John Edward.....	C	Akron
Jacob, Byron, Ralph.....	C	Akron
Kaufman, Ralph.....	C	Akron
Kinney, Roland Leroy.....	E	Akron
Labovitz, Abe J.....	C	Akron
Margulis, Harry L.....	C	Akron
Michelson, Louis Frederick.....	E	Akron
Millar, James.....	C	Akron
Miller, Charles William.....	E	Akron
Miller, Edmund Bruce.....	E	Akron
Miller, S. Philip.....	C	Akron
Moody, Dwight L.....	E	Akron
McDonald, Levi Alexander.....	E	Athol, Mass.
Newsom, Philip Calvin.....	C	Akron
Patterson, Earl.....	E	Akron
Raasch, Virgil.....	C	Akron
Robb, William Joseph.....	C	Akron
Salber, Eugene Joseph.....	E	Akron
Schumacher, William Albert.....	E	Akron
Spicer, Marjorie.....	C	Akron
Stilwell, Byron William.....	C	Akron
Suloff, Sidney E.....	E	Akron
Swanson, George C.....	E	Akron
Thumm, Louise Josephine.....	C	Salem
Tiley, Clyde Foltz.....	E	Meridian, Miss.
VanBrimmer, Ralph M.....	E	Delaware
VanHynning, Norman.....	E	Barberton
Vanica, Pearl R.....	E	Akron
Vaughan, Hannah H.....	C	Akron
Waggoner, Charles Theodore.....	E	Akron
Wert, Carl D.....	E	Akron
Whiteman, Henry H.....	E	Akron
Williams, Raymond Allen.....	E	Richmond, Ind.
Willyard, Eldrid G.....	C	Ravenna
Wise, William Robert.....	E	Akron

Total 50—Men 47

Women 3

FRESHMAN CLASS

Albertson, Donald Sidell.....	E	Cuyahoga Falls
Allison, Ruth.....	C	Akron
Appleton, Gladys Irene.....	C	Cuyahoga Falls
Armstrong, Walter W.....	C	Akron
Auld, James H.....	C	Akron
Barnholth, Thelma.....	C	Akron

Battels, Clare W.	E	Akron
Beckwith, Allan	E	Kent
Blaxill, Verna Howard	C	Akron
Botzum, John R.	C	Akron
Britsch, Harold	E	Akron
Brown, Ralph John	E	Akron
Cadden, Dorothy	C	Akron
Cain, Frederic George	E	Akron
Carruthers, William Clyde	E	Akron
Clendenin, William D.	E	Akron
Cooper, Herbert L.	E	Akron
Daugherty, Thomas H.	E	Akron
Davis, David E.	C	Akron
Davis, Ralph Charles	E	Akron
Doran, George Walter	E	Akron
Dowell, Frank Preston	E	Orrville
Failor, Ralph John	C	Akron
Farlin, Mary Elizabeth	C	Oil City, Pa.
Farner, Daniel R.	E	Akron
Firick, Frederick William	C	Akron
Funk, James William	E	Akron
Gehres, Margaret	C	Akron
Gower, Mason E.	C	Akron
Green, Joel	C	Akron
Greenlese, Florence Jane	C	Akron
Hagenbaugh, Robert Frederick	C	Akron
Haller, Leonard	C	Wadsworth
Hansen, Christian Lawrence	C	Akron
Hanson, Earl	E	Akron
Harden, Mark	C	Barberton
Harding, Hugh Wallace	E	Akron
Harding, John Logan	E	Akron
Hartz, Philip Leo	E	Akron
Hayden, Walter Henry	C	Akron
Hoch, Harold Charles	E	Akron
Humphrey, Evelyn	C	Akron
Javins, W. M.	E	Akron
Jenney, Charles W.	E	Barberton
Kastner, Edward C.	E	Akron
Kirn, Katherine R.	C	Akron
Kleckner, Marion B.	E	Akron
Lansinger, Howard R.	C	Akron
Luff, Wayne	E	Kent
Minnick, Helen Anna	C	Akron
Mulcahy, Florence	C	Akron
Muzik, Martin	E	Barberton
Myers, Edward Theodore	E	Akron
McDougal, Martha	C	East Akron
McWilliams, Troy	C	Plainville, Ind.
Oldham, Rowland E.	E	Akron
Patterson, Russell	C	Akron
Parker, Louise Frances	C	Akron
Pfaffe, Philip	E	Akron

Rahner, V. Clarence.....	C	Akron
Rahner, Julia	C	Akron
Randall, Merrill Russell.....	C	Akron
Rasor, Harry Weymouth.....	E	Wadsworth
Reading, Donald E.....	E	Akron
Renninger, Clarence W.....	E	Akron
Ruff, Robert Ronald.....	E	Akron
Sandels, Roy S.....	E	Akron
Sauter, Thomas Henry.....	E	Williamsport, Pa.
Schachner, Joseph Morris	C	Akron
✓ Scharenberg, Leonard	E	Akron
Schlundt, Carl	E	Dover
Schmieg, Ferdinand	E	Barberton
Schultz, Esther Helen.....	C	Akron
Seckel, Rollie Joy.....	E	Galion
Shoemaker, Francis Gordon.....	E	Akron
Shook, Melvin L.....	E	Akron
Smith, Charles Robert.....	E	Akron
Smith, Dorothy Mildred.....	C	Akron
Smith, Robert Kroehle.....	C	Akron
✓ Snyder, Paul V.....	E	Akron
✓ Snyder, Richard Foreman.....	E	Williamsport, Pa.
Spessard, Dwight Sawyer.....	C	Akron
Staub, Milton.....	C	Akron
Steel, Francis Earl.....	E	Akron
Sullivan, John P.....	E	Akron
Sullivan, William Leo.....	E	Akron
Tannar, D. Harold.....	E	Akron
Tichenor, Alfred B.....	E	Akron
Troescher, Wesley R.....	E	Akron
Tryon, Ralph C.....	E	Akron
Uhrig, Otto	E	Ravenna
Wagner, John F.....	E	Marshallville
Warner, Loree	E	Akron
Waterman, Charles Vernon.....	C	Akron
Werner, Albert Richard.....	C	Akron
Wetzel, George	E	Akron
Wetzel, Ward	C	Akron
White, Frank Granger.....	E	Akron
Wilkie, Charles B.....	E	Akron
Wingarter, Ralph A.....	E	Akron
Total 100—Men		83
		Women 17

SPECIALS

Abbott, Carl	C	Akron
Appleget, Helen	C	Akron
Bowlby, Nevin	C	Akron
Clark, Llewellyn David	E	Akron
Copp, Charles Fenton.....	E	Akron
Herman, Freda Elizabeth.....	C	Akron
Joy, William Harold.....	E	Akron
Lord, Roger	E	Akron
McCready, Corwin Baldwin.....	C	Akron

Neag, Demetrius	E	Akron
Ruch, Raymond William	E	Akron
Singer, James	E	Akron
Steel, Raymond J.	C	Akron
Stiles, Stanley Rice	C	Akron
Wagner, Francis A.	E	Akron
Whalen, George L.	E	Akron
Young, Louis Frederick	C	Akron
Total 17—Men		15
		Women 2

CURTIS SCHOOL OF HOME ECONOMICS**SENIOR CLASS**

Iredell, Elizabeth.....Akron

JUNIOR CLASS

Arenson, Bertha	Akron
Braley, Eloise York	Akron
Cauffield, Rachel Doris	Akron
Hillman, Carolyn Louise	Akron
Hoover, Frances Alice	Akron
Keck, Olive	Akron
Kolbe, Lydia Voris	Akron
Lord, Margaret	Akron
Total	
8	

SOPHOMORE CLASS

Copp, Louise	Akron
Hallinan, Dorothy	Akron
Pfahl, Hilda	Akron
Roth, Cordelia Catherine	Akron
Urpman, Helena M.	Akron
Total	
5	

FRESHMAN CLASS

Averell, Marjorie	Akron
Bachtel, Harriett Elizabeth	Akron
Belden, Mary A.	Akron
Blaire, Lillian	Akron
Dettling, Genevieve	Akron
Dettling, Vivien	Akron
Diener, Hazel	Akron
Hanson, Helen	Akron
Hatch, Vera	Akron
Hayes, Lois Jeanette	Akron
Houston, Margaret	Akron
Lamb, Thelma	Akron
McKinney, Lucille	Akron
Schmidt, Luella Sophia	Akron

Stansfield, Mary.....	Akron
Stalknecht, Dorothy E.....	Brackettville, Tex.
VanBerg, Marie.....	Akron
Zerbe, Mary Elizabeth.....	Akron
	Total 18

TEACHERS COLLEGE**GRADUATE STUDENTS**

Carson, Kathleen Cleland.....	Akron
Muskingum College	
Frampton, Bertha Regina.....	Akron
B. S. in Home Economics,	
Municipal University of Akron	
Heath, Mabelle D.....	Cuyahoga Falls
A. B., Lake Erie College	
Lilliedale, Juanita.....	Akron
B. S., University of Richmond	
Ritchie, Harry.....	Akron
A. B., Mount Union College	
Saviers, Naomi A.....	Akron
B. S., Ohio State University	
	Total 6—Men 1
	Women 5

SENIOR CLASS

Redinger, Elizabeth.....	Akron
Willoughby, Mary Elizabeth.....	Columbus
	Total, Women 2

JUNIOR CLASS

Barber, Adelaide.....	Akron
Denison, Mildred.....	Akron
Freas, Nina Mae.....	Akron
Fornecker, Helen.....	Akron
Jellison, Horace M.....	Akron
Spoo, Margaret Bertha.....	Uniontown
Triplett, Dorothy.....	Akron
Pfeiffle, Anna Bessie.....	Akron
	Total 8—Men 1
	Women 7

SOPHOMORE CLASS

Arnold, Victoria Ulrich.....	Akron
Barnes, Elizabeth Orra.....	Akron
Barnes, Leah.....	Akron
Bolanz, Katherine Margaret.....	Everett
Broughton, Rhoda.....	Peninsula
Camehl, Ruth Marie.....	Kent
Dennis, Grace A.....	Akron
Deckard, Mrs. Huldah.....	Akron

Denning, Murl.....	Akron
Fitzgerald, Anna Mary.....	Akron
Foutts, Inez Cora.....	Akron
Glass, Violet Elizabeth.....	Flinton, Pa.
Green, Carrie Lenora.....	Akron
Hamilton, Helen Beatrice.....	Akron
Hanna, Edna.....	Akron
Heiss, Bertha Helena.....	Medina
Hipkins, Harriet Spalding.....	Akron
Hodson, Grace.....	Akron
Hosler, Mary E.....	Akron
Jones, Mabel Lucille.....	Hudson
Keister, Pauline.....	Ashtabula
Ledrich, Roxie Ann.....	Millersburg
Lind, Esther Mildred.....	Akron
McCoy, Carrie Louise.....	Akron
Maurer, Mary Helen.....	Kenmore
Meier, Ruth.....	Akron
Miller, Margaret E.....	Akron
Moore, Maude Eunice.....	Akron
Morgan, Margaret Leora.....	Tallmadge
Newbauer, Mareta.....	Akron
Pierson, Mary R.....	Akron
Phillips, Virginia Olive.....	Blacksville, W. Va.
Pomeroy, Ruth.....	Akron
Presley, Dora Pearl.....	Medina
Rieker, Elizabeth Katherine.....	Kent
Scherbarth, Ruth.....	Akron
Schwendeman, Agnes.....	Akron
Wygant, Elizabeth.....	Akron
Total, Women 38	

FRESHMAN CLASS

Bolton, Elsie.....	Akron
Bower, Ruth.....	Akron
Brubaker, Irene.....	Akron
Carey, Fern.....	Akron
Chestnutt, Florence.....	Akron
Crankshaw, Esther Jane.....	Akron
Cunningham, Lillian.....	Akron
Davidson, Dorothy.....	Akron
Davies, Helen.....	Cuyahoga Falls
Fasnacht, Mary C.....	Inland
Frank, Clara Melissa.....	Barberton
Fricke, Agnes M.....	Akron
Gibbs, Myrtle.....	Akron
Gilbert, Alice.....	Akron
Griffiths, Irene.....	Akron
Heilman, A. Loretta.....	Akron
Honeywell, Nina.....	Akron
Irwin, Helen Elizabeth.....	Akron
Jurgens, Leona.....	Akron
Lord, Elizabeth.....	Akron

Miller, Helen.....	Akron
McMillen, Neva Elizabeth.....	Akron
Morton, Doris.....	Akron
Mulligan, Loretta M.....	Akron
Ohl, Bernice L.....	Akron
Pollock, Kathleen.....	Akron
Price, Ruth.....	Akron
Reichenstein, Selma Barbara.....	Akron
Riblett, Leila.....	Akron
Saal, Mary Elizabeth.....	Akron
Sanderson, Margaret Ruth.....	Akron
Smith, Leona.....	Akron
Whitman, Anna Ruth.....	Akron
Total, Women 33	

SPECIAL

Frazier, Irma.....	Akron
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SUMMARY OF STUDENTS IN DAY CLASSES**BUCHTEL COLLEGE OF LIBERAL ARTS**

	Men	Women	Total
Graduate Students.....	6	4	10
Seniors.....	26	15	41
Juniors.....	33	26	59
Sophomores.....	49	33	82
Freshmen.....	119	80	199
Irregular.....	15	18	33
Special.....	7	6	13
Total.....	255	182	437

COLLEGE OF ENGINEERING AND COMMERCE

	Men	Women	Total
Graduate Students.....	3	1	4
Seniors.....	7		7
Juniors.....	18	1	19
Pre-Juniors.....	34		34
Sophomores.....	47	3	50
Freshmen.....	83	17	100
Specials.....	15	2	17
Total.....	207	24	231

CURTIS SCHOOL OF HOME ECONOMICS

	Women	Total
Seniors.....	1	1
Juniors.....	8	8
Sophomores.....	5	5
Freshmen.....	18	18
Total.....	32	32

TEACHERS COLLEGE

	Men	Women	Total
Graduate Students	1	5	6
Seniors		2	2
Juniors	1	7	8
Sophomores		38	38
Freshmen		33	33
Specials		1	1
Total	2	86	88
Total Day Students,			
Men			464
Women			324
			788

EXTENSION COURSES

Abendshine, Irene	Bartlett, Ethel E.
Adler, Mose M.	Bartlett, Lucy H.
Akers, Marjorie Stanley	Baskin, Fern Spellman
Albers, Alta	Batchelor, Leta Gertrude
Albright, Ethel	Baughin, Maude
Alderton, Mary A.	Baughman, Mrs. Blanche
Alexander, Clair B.	Baughman, Earl R.
Alexander, Iva	Baumgardner, Irene
Alexander, Rosanna B.	Baumgartner, Elmyra
Allen, Mrs. Isham Frank	Beachler, C. L.
Allen, Margaret	Beachler, O. Marie
Aly, Ralph W.	Bear, Sidney J.
Ammon, Marguerite	Beauchamp, Ida G.
Amos, Jennie	Bechler, A. Mildred
Amstutz, Bernice	Beck, Anna Mabel
Andrus, James R.	Beck, Emma
Anson, Mary	Beckwith, Roberta E.
Appleget, Helen	Beery, Laurence A.
Arbogast, Doris Margaret	Belden, Alice Tomlinson
Arnold, John E.	Belden, Don Alexander
Arnold, Victoria Ulrich	Bennett, Clara E.
Assaf, Jaleel	Berglund Agnes
Atkinson, Clara	Betson, Emma
Atkinson, Edna F.	Beyer, C. H.
Atkinson, Laura Margaret	Beyers, Kenneth D.
Axford, Clinton B.	Bickford, Jennie M.
Babcock, Ernest L.	Bigelow, Anna A.
Babcock, Mabel J.	Binet, Charles
Bailey, Richard	Black, Mabel
Baker, Leah M.	Blevins, Leonard A.
Baker, Margaret Elizabeth	Bliley, C. J.
Baker, Mildred E.	Bliss, Lotus C.
Baldwin, Helen D. V.	Bloom, Hanna E.
Ballard, Bess I.	Bloomer, Jas. G.
Ballard, Florence M.	Bochstahler, Cora
Ballard, Irby S.	Boehringer, C. W.
Bambour, Mamie	Boewig, Harriet
Bangsberg, Josephine H.	Bohl, Ray Anderson
Barber, Mabel	Bojo, Eliz. M.
Barcroft, J. R.	Bonfils, Armande
Barnes, Duane	Bonnell, Lester Earl
Barnes, Leah	Bonnoront, Corien
Barnes, Mary R.	Boone, Thos. Kedar
Barnhardt, Jane S.	Bossinger, Laura I.
Barrow, Earl J.	Bordner, Robert

Botzum, Lida
 Bowden, Mabelle E.
 Bowe, Wilbur Chas.
 Bowen, Achsah
 Bower, Calvin L.
 Bower, Edna Williams
 Bower, Orpha S.
 Bowman, Margaret E.
 Brast, Bertha Edna
 Brecht, Ethel L.
 Brewbaker, Chas. Earl
 Bricker, Frances B.
 Brinkerhoff, Augusta
 Broadbent, Billie
 Brown, Blanche
 Brownscombe, Earl T.
 Bruederlein, Rilla M.
 Bruot, Mrs. Katherine
 Bryers, May T.
 Budd, Wm. B.
 Burkhardt, Norma
 Burkhart, Mrs. Nellie K.
 Burnham, Lawrence H.
 Burns, Cecile M.
 Burns, Mildred M.
 Burrell, Esther Shively
 Buskirk, Hazel
 Buswell, Nellie
 Butler, Whitney E.
 Buzzard, Daniel R.
 Cable, Rena Nancy
 Cadden, Chas. C.
 Cain, Jas. R.
 Caldwell, Emma
 Callow, Harriet T.
 Calnon, Catherine
 Cameron, Wm. R.
 Camp, Elizabeth
 Campbell, Alice L.
 Campbell, Austin C.
 Cannon, E. A.
 Cannon, Mrs. Emma B.
 Cardarelli, Jennie H.
 Caris, Lila
 Carnahan, D. W.
 Carrick, Carrie E.
 Carroll, Chester E.
 Carroll, Gertrude
 Carruth, Elbert A.
 Carter, Dawn E.
 Casselbury, Arthur B.
 Castleman, C. W.
 Caswall, Katherine B.
 Caudill, Hattie M.
 Caudill, Mildred
 Cauffield Doris
 Caves, Myrtle
 Cehrs, Glenn P.
 Cervenka, Edith
 Chalfant, Anna B.
 Charles, Augusta B.
 Chesnutt, Valette
 Chesser, Clyde B.
 Christensen, Lillian
 Clark, Edna Frances
 Clark, Evelyn
 Clark, Gertrude
 Clark, Lillian M.
 Clark, Lillian Marguerite
 Clark, Maurice L.
 Clark, Meroe W.
 Clark, Nora M.
 Clark, Paul
 Clement, Genevieve G.
 Clover, Nina
 Cofer, Florence
 Cohen, Zeldia
 Coker, J. Raymond
 Colclough, E. R.
 Cole, Grace Dewey
 Coleman, Grace
 Coleman, Helen L.
 Collins, Eliza A.
 Collins, Marie
 Colman, Grace
 Condon, Walter J.
 Conley, Walter J.
 Conrad, Elden E.
 Cook, T. R.
 Copley, Frank
 Corl, Helen
 Corl, Minnie E.
 Corrigan, Harry A.
 Corson, Wm. G.
 Covey, Cora L.
 Cozad, Edna M.
 Craft, A. Crayton
 Craig, R.
 Crankshaw, H. G.
 Crary, Stella
 Crawford, M. Lee
 Crawford, R. D.
 Cribbs, Henry W.
 Crispin, Frederica
 Crosby, Ralph R.
 Cross, Roy H.
 Crothers, Daniel
 Crouse, Irene L.
 Croy, Herbert M.
 Culp, Vernon S.
 Curtman, Bessie
 Curley, Wm. H.
 Curry, Frances N.
 Curtis, George H.
 Daily, Ruth
 Daily, Arthur D.
 Dales, Lotta E.
 Dambach, Mary E.
 Danforth, Florence M.
 Danforth, Thos. D.
 Danner, F. W.
 Darragh, Charlotte S.
 Davidson, Agnes I.
 Davis, Edward W.
 Davis, Esther R.
 Davis, Gertrude
 Davis, Gladys E.
 Davis, Gladys F.
 Davis, Harry E.
 Davis, Margaret A.
 Davison, Margery Owens
 Davison, Maurice E.
 Dawson, Florence R.
 Day, Gertrude E.
 Day, Luella G.
 Dean, Anna H.
 Dean, Grace L.
 Dech, A. C.
 Decker, Margaret R.
 Decora Mrs. Stella

Derr, Lena
 Derrig, Dorothea
 DeVore, Austin G.
 Dexter, Rhoda Mae
 Dibble, Alice E.
 Dickerhoof, Leota
 Dickerson, Bess
 Dickinson, Eliz. G.
 Dickson, Dorothy E.
 Dieterich, Harold M.
 Dillehay, Albert J.
 Diller, Goldie M.
 Dilworth, Paul H.
 Dimmette, Chas. L.
 Dineen, Mabel
 Dittmore, James A.
 Dixon, Mayme Bingham
 Dodd, S. W.
 Donaldson, Clara R.
 Dresser, Meita
 Driscoll, Kathryn
 Drury, Faye E.
 Duffy, Elizabeth M.
 Dumbeck, Florence M.
 Dunckley, Sarah E.
 Dunn, Emma
 Durst, Ross C.
 Dutt, Flossie
 Dye, Donald L.
 Dyer, Mildred L.
 Earle, Mabelle
 Eberly, J. Clyde
 Ebert, Benj. F.
 Ebert, Dorothy M.
 Eckert, Clara A.
 Ederer, W. J.
 Edgar, Gilbert R.
 Edwards, David L.
 Effinger, Emma
 Effinger, Martha
 Ellifritz, Fred
 Elting, Oscar R.
 Elwell, C. E.
 Elwood, Mary Ruth
 Emery, Bess Irene
 Eroh, Rollin M.
 Ervin, Lillian G.
 Esch, Orvil M.
 Evans, Clyde A.
 Evans, Helen L.
 Evans, James A.
 Everett, Harvey A.
 Fackler, Mary
 Fahrler, Henry E.
 Fallon, James B.
 Farmer, Warren L.
 Farr, Alvira H.
 Feingold, Morris J.
 Fejes, George M.
 Fellows, Mabel
 Fenn, Mabel E.
 Ferguson, Mildred
 Fernsner, Hazel M.
 Feucht, Herman F.
 Field, Blanche
 Filson, Elsie
 Finch, Evea
 Firestone, Maxine
 Firestone, Roy G.
 Firick, Florence
 Fisher, Homer A.
 Fisher, Lucille
 Fitzgerald, Mrs. Helene
 Fitzpatrick, Julia A.
 Fitzpatrick, Rose E.
 Fleming, Vernon M.
 Fletcher, C. Harry
 Fletcher, Laurel
 Flint, Eldora
 Flood, John W.
 Floto, Eugene C.
 Foley, Thomas
 Foltz, E. B.
 Forehand, Fletcher E.
 Foster, Mary Jane
 Foster, Mary O.
 Foster, Sara M.
 Fouse, Purl
 Fouse, Russell L.
 Fox, Amelia
 Frampton, Bertha R.
 Franklin, Audrey B.
 Frase, Alice
 Frase, Mabel
 Frase, R. L.
 Frater, Lula A.
 Freedlander, Rosalind
 Freeman, Mrs. Annie L.
 French, Charles W.
 French, Stuart C.
 Freudeman, A. G.
 Frost, Alma V.
 Fuller, May L.
 Gable, Hazel V.
 Gallets, Sophia G.
 Gallogly, Mary L.
 Gardner, Wade K.
 Garver, Earl F.
 Garver, Leroy V.
 Garvitz, Daisy E.
 Gebelt, Violet G.
 Geer, Harriet
 Gerber, Albert J.
 German, Arthur H.
 Gilbride, Rose M.
 Gilchrist, Ida J.
 Gilgen, Anna
 Gingery, Vernon H.
 Gintz, Mrs. Louis
 Gitow, Morris
 Gladwin, Neonetta
 Glanville, Olive
 Goldin, Micheal
 Gordon, Anna
 Gordon, Julia
 Gorman, Gertrude
 Gorman, H. Thomas
 Graham, Dorothy L.
 Graham, Luella
 Grant, Claudia V.
 Grant, Frank D.
 Green, Alice L.
 Gregory, John B.
 Gregory, Leon W.
 Gregory, Lucy
 Greif, Pearl S.
 Griest, Mary Helen
 Griffith, Mrs. Helen
 Grindle, Bernice L.
 Gross, Russell R.

Groves, Marie B.
Grubb, Elton E.
Haas, Hermina
Haas, Lena Mary
Haberkost, Florence L.
Haeefe, Ruth L.
Hale, Joseph C.
Hall, Michael W.
Haley, Robert U.
Hall, Chas. P.
Hall, Letitia Jane
Hall, Mrs. Marguerite
Halladay, Wm. Q.
Hallett, Chas. H.
Halsey, Ray
Halter, Helen C.
Hamilton, Helen B.
Hanks, Jessie M.
Haskins, Alice E.
Hatch, J. E.
Hatfield, Gertrude
Hauck, Laura N.
Haught, Isaac B.
Hawk, M. E.
Hayes, Joseph T.
Haymaker, Nellie B.
Hazelet, Bruce A.
Hanna, Clarence C.
Hanrihan, Mrs. Helen M.
Hanson, Hattie A.
Hanson, Irene L.
Hanson, Jennie M.
Hardesty, Fredrick J.
Harrington, Fay B.
Harrington, Thos. E.
Harris, Alma
Harris, Betsey L.
Harris, Cassie
Harris, Mary L.
Harrison, Jessie J.
Harter, Fred S.
Hartley, Anna L.
Hartman, B. Earle
Hartnett, Mary L.
Hartz, Regina M.
Heath, Mabelle D.
Heller, Melvin M.
Henderson, Ona
Hennigan, Catharine
Henretty, Sadie
Henry, Catherine
Herman, Virna
Herman, Geo. L.
Herndon, Maude
Herzog, Edward
Hiatt, Harold A.
Hickerson, Harry W.
Hilbish, C. E.
Hile, Geo. E.
Himebaugh, Oscar
Hinkle, E. G.
Hinman, Martha L.
Hinsdale, Josephine M.
Hinshaw, Gertrude
Hipkins, Harriet Spaulding
Hirleman, Adeline A.
Hirleman, Grace
Hirleman, Ruth
Hirsch, Edythe
Hitchock, Georgia A.
Hitchcock, Helen E.
Hoak, Spencer S.
Hoel, Gladys
Hoffman, Arnold
Hoffman, Lela
Hoffman, Martin L.
Holcombe, Washington E.
Holder, A. B.
Holland, Ralph
Hollaway, LeRoy P.
Horning, Leone
Horst, Henry M.
Horton, Stanley C.
Hoskin, Grace E.
Hough, Cynthia M.
Householder, Bessie
Houston, Clarice R.
Howbridge, Ruth A.
Howard, Harry C.
Howe, Donald
Hoy, Rose
Hubbard, Dorothy
Hubbard, Edith M.
Hubbard, Ruth
Huber, Lucille
Hughes, Mary
Hummel, E. H.
Hungerford, Courtland T.
Huntley, Vesta A.
Hurley, Lillian
Huston, Emma
Ingersoll, Henry W.
Ion, Grace E.
Irvine, Alice
Irwin, Wm. J.
Jackson, Helen B.
Jackson, Maude
Janssen, Margarethe E.
Jarvis, Vida B.
Jellison, Horace M.
John, John K.
Johnson, David J.
Johnson, Fred
Johnson, M. Helen
Johnson, Leonard
Johnston, James W.
Jones, Bertine G.
Jones, Edna
Jones, Harriet M.
Jones, Robert B.
Jones, Violet
Joy, Laura Ellen
Kahnheimer, Josephine A.
Kaiser, Madge H.
Kanagy, Celia M.
Kanjutzky, Isador
Kanjutzky, Joe
Karnaghan, Anne W.
Kassinger, Frederick M.
Keating, David M.
Keck, Blanche Ione
Kelch, Helen T.
Kellerman, Annabel
Kelley, Helen Claire
Kennedy, Durrell
Kessler, Norman M.
Kick, Margaret M.
Kick, Walter J.
King, Edith A.
King, Katherine H.

King, Lewis R.
 Kinna, Beulah K.
 Kinney, Leonard D.
 Kirk, Georgiana
 Kirk, Mary M.
 Kissane, Hugh H.
 Kittinger, Nell J.
 Kittren, Madeline V.
 Kleckner, Harry I.
 Klein, Elizabeth M.
 Kline, Dorothy E.
 Kline, Lois
 Knapp, Mame E.
 Knauss, Helen
 Knight, Walter H.
 Knowlton, Arthur S.
 Kodish, Louis W.
 Kollie, Leo F.
 Koontz, Mary
 Kopf, Wm. Henry
 Krager, Lillian G.
 Kraotochil, May E.
 Kraus, John, Jr.
 Kraus, Joseph P.
 Kraus, Luise
 Kronk, Mae
 Kuhn, Grove L.
 Kunkel, Goldo
 Kuntzelman, Roy A.
 Kurtz, Ethel B.
 Kurzen, Walter E.
 LaBelle, Fay
 Langer, Mrs. Harriet
 Lantzer, Lloyd
 LaPorte, R. Bernard
 Larrabbe, Sarah E.
 Laushell, Edward L.
 Lautzenhiser, Fred B.
 Lazear, Mary M.
 Leake, Lowell L.
 Leavitt, Dora
 Lebold, Verna E.
 Ledirch, Florence
 Leeper, Laura
 Leffler, Carl P.
 Leight, Vesta May
 Lemke, Arthur E.
 Lemmler, Hazel R.
 Lewis, Lucy A.
 Leidholm, Gustaf
 Lieuellen, Mrs. Armetha
 Lillie, Edward P.
 Lincoln, Vernon E.
 Lind, Frances C.
 Lippa, Clarence E.
 Livingstone, Jennie
 Loomis, Walter W.
 Love, Mrs. Eldreda B.
 Love, Ivan R.
 Lower, Daisy F.
 Ludlam, L. Ruth
 Ludwig, Mrs. Mae
 Lukens, Arthur M.
 Lukens, Chas. C.
 Luxmore, Mrs. Belle B.
 Luxmore, Geraldine
 Lynds, Alvah L.
 Lytle, Elmer J.
 McAuliff, Alice
 McBride, Betty
 McCallun, Lida B.
 McCance, Jessie
 McCaughey, Ulysses M.
 McClintock, Anna
 McClintock, Jennie
 McCorkle, Mary E.
 McCormick, Mary E.
 McCullough, Carmetta M.
 McDonald, Rose E.
 McDonough, Pearl
 McDowell, Alta M.
 McDowell, Anna E.
 McFarlan, J. T.
 McGarvey, Anna F.
 McGinness, Edna I.
 McGovern, Frances
 McKee, Eva A.
 McKee, Leora
 McKelvey, Augusta B.
 McKenzie, Wm. H.
 McKinnon, Jessie C.
 McKnall, Stella
 McMahan, Cathryn
 McMillen, J. Frank
 McNeil, Lois A.
 McNeil, Ruth
 McNulty, Robert D.
 McQuie, Fannie M.
 McTaggart, Wm. C.
 MacAllister, Hazel M.
 Macdonald, Martha J.
 Mackay, Isabella
 Mackey, H. P.
 Madden, Mary L.
 Maddox, Herbert V.
 Maider, Martha
 Mair, Bertha L.
 Main, L. Parker
 Maple, Emery
 Markle, Nimnia L.
 Marshall, Clayton S.
 Marshall, Ethel
 Martin, Edith
 Martin, Jack
 Martin, Julia C.
 Martin, Rose E.
 Mason, Ruth
 Masteller, O. G.
 Matz, Ida J.
 Maybach, Emma L.
 Means, Emily S.
 Mearig, John F.
 Meeker, Maybell M.
 Melander, Ida Mae
 Mengel, Carl
 Mentzer, Lloyd E.
 Mercer, Frank E.
 Mercer, Mary E.
 Merrell, Lucia E.
 Merryweather, Howard
 Meyer, Gertrude
 Meyer, Ruth
 Miles, M. Agnes
 Millar, Margaret T.
 Miller, Arthur R.
 Miller, B. Sidney
 Miller, Mrs. B. Sidney
 Miller, Bert
 Miller, Clarence M. A.
 Miller, Emma E.

Miller, Frank B.
 Miller, Geo. E.
 Miller, Helen A.
 Miller, Louis B.
 Miller, Pearl
 Miller, S. Philip
 Miller, Vera M.
 Mills, Julia M.
 Mills, Martha L.
 Mills, Olga
 Mills, Veola
 Mitchell, Emma S.
 Mitchell, Mrs. Hazel B.
 Mitchell, Howard S.
 Mitchell, M. Wm.
 Moeller, Zella R.
 Moery, Marguerite
 Moloney, Anna F.
 Montgomery, C. E.
 Moody, Ida A.
 Mooney, Sara M.
 Moore, Elizabeth
 Moore, Howard
 Moore, Joseph S.
 Moore, Russell S.
 Moore, Ruth
 Morris, Jane I.
 Morris, Kathleen J.
 Morris, Vera I.
 Morrison, Janet
 Moser, Lester
 Moss, Gratia M.
 Moz, Caroline
 Muir, Jessie A.
 Murphy, Arthur B.
 Murphy, Wayne F.
 Myers, E. F.
 Myers, Mary E.
 Myers, Paul I.
 Myers, Ruth B.
 Myers, Wm. P.
 Naber, Louise
 Naumer, Lora I.
 Naylor, Grace
 Neal, Esther
 Neal, Martha E.
 Nelles, Philip A.
 Newman, Arthur P.
 Nichols, Louise
 Nichols, Mrs. Martha O.
 Nickson, Beatrice M.
 Noakes, Levi C.
 Norman, Myrtle L.
 Norman, Vivian C.
 Northrop, Harold V.
 Norton, Bessie
 Nottingham, Margaret
 Oathoudt, Avis P.
 Oatley, Mrs. Pauline M.
 Oberdorfer, E. L.
 O'Brien, Clementine E.
 Olin, Mrs. C. R.
 Olin, Halcyon
 Olsen, Gyda J.
 O'Neil, Frances E.
 O'Neil, Katherine
 O'Neill, Frank
 Orcutt, Harry B.
 Ostrander, Chas. W.
 Ostrye, Barbara
 O'Toole, Katherine
 Outhwaite, Elizabeth
 Owen, Edith J.
 Oystre, Barbara
 Pack, Isabel K.
 Pack, Mabel
 Paige, Harland E.
 Palmer, Marian Inez
 Parham, Mrs. Mamie L.
 Park, Carl
 Parker, Anna F.
 Parrish, Laura A.
 Parshall, Gladys
 Patterson, Earl L.
 Patterson, Nellie
 Patton, Minnie M.
 Paul, Frank D.
 Payne, Eva
 Pearce, Gertrude
 Pearson, Lucile E.
 Pease, Blanche Mae
 Pease, Mrs. Grace B.
 Peck, Elizabeth E.
 Peery, Lula G.
 Pees, Mahala
 Pemberton, Letha J.
 Pence, Ruby A.
 Pendleton, Mary A.
 Pennebaker, Edward H.
 Pennebaker, Wm. B.
 Peterson, Elma M.
 Peterson, Eva M.
 Petry, Clara
 Pfaff, Rhea G.
 Phelps, Mary W.
 Phillips, Carrie C.
 Phillips, Zadie M.
 Pickett, Katherine E.
 Piehl, H. C.
 Pierce, Ethel M.
 Pierce, Eva E.
 Plane, Marv M.
 Pleasants, Eliz. K.
 Pokowsky, Theodore
 Pomoroy, Norman
 Poole, Howard R.
 Porter, Albert C.
 Porter, Florence C.
 Porter, John L.
 Post, Bessie I.
 Post, Nellie B.
 Potschner, Stella
 Pribble, John A.
 Price, Elizabeth
 Prior, Margaret M.
 Proehl, Florence B.
 Purdy, John F.
 Purdy, Ruth D.
 Pyers, Bessie
 Quaintance, Elsie I.
 Quick, Frank M.
 Raasch, Chas. Earl
 Raudabaugh, Fern L.
 Randall, Nora E.
 Randolph, Louise D.
 Raybould, Geo. H.
 Reed, Ruth
 Rees, Ruth Margaret
 Reese, Floyd M.
 Rehak, James

Reisberg, Carl
 Remmy, Grace
 Rhodes, Ella I.
 Rial, Edna
 Richards, Chas. H.
 Richert, Zelina
 Riel, Walter R.
 Riley, Sidney T.
 Rinehart, Elmer D.
 Riner, Jesse A.
 Ritchie, Harry E.
 Robbins, Ruth
 Robinson, Margaret W.
 Rockwell, Bennett M.
 Rohner, Eva M.
 Rogers, Alice I.
 Rollins, Eleanor E.
 Romestant, Rose
 Romig, Blanche
 Rook, Ethel
 Rook, Margaret
 Ross, Donald R.
 Ross, Mary
 Rotruck, Clarence D.
 Roush, Fay Marian
 Rowe, Emily G.
 Rowland, Mrs. Mary M.
 Rubins, Paul W.
 Ruff, Nelle
 Rumbaugh, Lillis F.
 Rummel, Eva
 Rumsey, Maude E.
 Rumsey, Rebecca
 Ryan, Margaret M.
 Rylander, Martha O.
 Saal, Kathryn C.
 Sadler, Harvey A.
 Salber, Olive M.
 Samuels, Hilda S.
 Saunders, Ellen G.
 Sauter, Thos. H.
 Saviers, Naomi
 Sayers, Martha E.
 Scanlon, Catherine
 Schaffner, Dorothy D.
 Schall, H. Agnes
 Schaner, Mary
 Schaufele, Lucille
 Schell, Minnie S.
 Scheible, Gertrude
 Schlagenhaut, Wm. H.
 Schlenker, Agatha E.
 Schmieg, Gertrude
 Schnee, Mary E.
 Schneider, Edwin A.
 Schneider, Lawrence H.
 Schnitzler, Joe J.
 Schoenduve, W. Harold
 Schoeninger, Amelia B.
 Scholes, Hazel
 Schorin, B. D.
 Schrader, Lester L.
 Schwem, Mabel E.
 Scott, Eleanor C.
 Scott, Margery E.
 Seal, Doras D.
 Segel, Rose
 Seib, Edna
 Seitz, Etta H.
 Sellers, Hazel B.
 Sellers, Lester A.
 Semonin, Lloyd A.
 Serfass, Mrs. Addie
 Sewell, Mrs. M. Elnora
 Seymour, Ruth W.
 Shade, Mrs. Elta
 Shaffer, Helen H.
 Shaffer, Ralph L.
 Shannon, Mrs. Lulu
 Shawl, Nellie G.
 Sheedlo, Hilda M.
 Sheehan, Mary E.
 Sherbondy, Bruce
 Shetler, Eva
 Shetler, Maude
 Shotwell, John
 Shreve, Dorothy
 Shuler, Geo. A.
 Shultz, Wm. S.
 Siddall, Carl B.
 Silberman, Josephine
 Sillito, Lucile
 Sills, Mrs. Evelyn
 Silverman, Elizabeth
 Simpson, Anna
 Simpson, Mary L.
 Sipe, Ida C.
 Skaer, Blanche A.
 Slabaugh, Fanny M.
 Slater, Ailene
 Sloan, Emma E.
 Smelzer, Clarence R.
 Smith, Brownie M.
 Smith, Carleton F.
 Smith, Eleanor A.
 Smith, Florence
 Smith, Floyd B.
 Smith, Frank O.
 Smith, Jennie M.
 Smith, Jessie G.
 Smith, Lena E.
 Smith, Lulu I.
 Smith, Newman
 Smith, Mrs. Ruth A.
 Smith, Wave
 Snavelly, Daisy
 Sneider, Barbara
 Snow, Lela M.
 Snyder, C. M.
 Snyder, Ella B.
 Sockrider, M. Louise
 Somerfeldt, Loretta
 Somerfeldt, Mamie
 Sophrin, Michael
 Southwood, Wm. D.
 Spafford, Beryl
 Spangler, Chas. R.
 Spaulding, Irving M.
 Spencer, Addison D.
 Sperry, John A.
 Springer, Marie
 Spuller, Minnie J.
 Stall, Blanche S.
 Stansberry, Mrs. Ada
 Stark, Virginia
 Starr, Ethel Marie
 Starrine, Ruth
 Stebbins, Mildred E.
 Steckhan, R. Bertha
 Steckhan, Charlotte E.

Stein, Mrs. Elizabeth C.
Stein, Homer O.
Steiner, Mac Belle
Stevens, Howard P.
Stevens, Paul
Stewart, Lucy M.
Stewart, Virginia W.
Stilwell, Mrs. Ruth
Stocker, Wilda
Stockton, Eunice
Stone, Walter L.
Storing, Julia H.
Strahan, Marie V.
Strandquist, Harry W.
Streeter, Etelka L.
Strenick, Hazel
Strickland, W. John
Stricklen, Jno. R.
Stubber, Mrs. B. F.
Stuckey, Emma
Subrin, Esther L.
Sugareff, V. K.
Suhadolink, Lawrence
Sullivan, Ellen F.
Sullivan, Katherine
Sullivan Margaret
Sullivan, Nora E.
Sutherland, Sue
Sutton, Dorothy M.
Swain, Albert
Swainhart, R. H.
Swann, Harriet
Swinehart, Mabel
Switzer, Chas. C.
Switzer, Mrs. Happy M.
Suleiman, T. O.
Taggart, Mae
Tatch, Max
Tatch, Ray
Templer, May
Tennis, Estella
Tescher, Geo. M.
Teulings, R. L.
Thesing, Anne
Thesing, Barbara J.
Thompson, Earl W.
Thorp, Clarence W.
Thourot, M. Grace
Ticknor, Earl H.
Tier, Annie
Tillotson, Jessie
Timlin, Alta A.
Toon, Gladys E.
Tottle, Geo.
Towne, Iva
Traverson, Josephine
Treffinger, C.
Treloar, Philippa M.
Trevarrow, Helen L.
Tryon, Blanche
Tucker, Guy E.
Tucker, Robert E.
Turnbull, M. Elizabeth
Ulrich, Mrs. A. C.
Upstill, Helen
Valsing, Anna N.
Vandersall, Clara E.
VanHoesen, Agnes L.
Van Hyning, Irene
Van Orman, Mrs. W. T.
Vanouse, Irene A.
Veon, Mrs. Mamie W.
Viers, George D.
Voige, Mary M.
Vollmer, Helen
Voris, Marion
Wachter, Rose C.
Wade, Harry J.
Waggoner, J. S.
Wagner, Mrs. Henrietta C.
Wagner, John A.
Walcott, Fannie
Walker, Achsah
Walker, Mary F.
Wallace, Dora C.
Walsh, Josephine
Walsh, Mrs. Mary
Waltz, Jessie B.
Waltz, Ruth G.
Wanner, A. J.
Warner, Florentina
Warner, Jeanette
Wash, Wm. Robert
Washer, Geo. Edwin
Watt, Jeanette
Weber, Esther Monica
Weber, James T.
Webster, Avanelle
Webster, Elsie
Webster, Thos. Paul
Weick, Paul C.
Weilbrenner, Marie
Welbaum, Cletus R.
Welch, Mattie E.
Welch, Walter H.
Wells, Geo. B.
Welsh, Tressa
Welsted, Marian B.
Welty, Frances
Wepler, Carl A.
Werling, C. M.
Westfall, L. W.
White, Ellen L.
White, Mary L.
Whitmore, Paul G.
Whyler, Arthur
Wiland Arthur G.
Wild, C. L.
Wilhelm, Henrietta
Wilkinson, Clyde
Willett, Besse
Williams, Cora E.
Williams, Laura
Williams, Louella F.
Williamson, Ada
Williamson, H. M.
Williamson, John
Willoughby, Mary E.
Willson, Ruth
Wilson, Bertha E.
Wilson, B. V. L.
Wilson, Charles H.
Wilson, Esther R.
Wilson, Harold M.
Wilson, Isabel R.
Wilson, Vaux
Wilt, Roy W.
Wineka, Wm. F.
Winemiller, Margaret
Winters, Vella L.

Wise, Wm. Robert	Wright, Hugh A.	
Witthoeft, Dorothy	Wright, Jennie R.	
Wolf, Louis	Wright, Louise J.	
Wolfe, Erdie	Wybel, Howard E.	
Wollenberg, Lillian	Wyman, H. B.	
Woloch, Grace	Wyre, Louis	
Wood, Bertha A.	Yearick, Warren	
Woods, Alice C.	Yoder, Hattie M.	
Woody, Irene	Young, Harold C.	
Worrell, Mae	Young, Margaret E.	
Worrell, Mayme	Youngs, Myrtle M.	
Wright, Bertha C.	Yutzy, Grace	
Wright, Ernest R.	Zimmerer, Anton H.	
Wright, Helen B.	Zook, D. B.	
Total		1098
Students regularly enrolled in University taking extension work, deduct		44
Total Extension Students		1054

SUMMARY OF ALL STUDENTS IN UNIVERSITY

	Men	Women	Total
Graduate Students	10	10	20 ✓
Seniors	33	18	51 ✓
Juniors	52	42	94 ✓
Pre-Juniors	34		34 ✓
Sophomores	96	79	175 ✓
Freshmen	202 ✓	148 ✓	350 ✓
Irregular	15	18	33
Special	22	9	31
Total in Day Classes	464	324	788
Total in Extension Classes 1054. (On basis that five extension students are equivalent to one full-time stu- dent.)			211
Total full-time students in University for school year 1921-22			999

The following students entered the University the second semester, 1920-21, too late to have their names recorded in the catalog:

Liberal Arts College

Rozelle, Donald L.....Kent

Engineering College

Andrews, James Marion.....Akron
 Heerlein, Joseph Hubert.....Corry, Pa.
 Johnson, Vernon Frank.....Cleveland
 Straub, Harold M.....Akron

Irregular students are those who have completed entrance requirements but have not chosen a major.

Special students are those who have not completed entrance requirements and are not candidates for a degree.

**HEALTH DEPARTMENT—UNIVERSITY
 CO-OPERATIVE COURSE**

(A ten-weeks course, April to June, 1921)

Abendshine, Irene	Kittinger, Nell
Alexander, Rosanna B.	Kopf, Wm. Henry
Atkinson, Edna	Leib, Myrtle C.
Barnes, Mary E.	Matz, Ida J.
Barnes, Mary R.	Miller, Grayce
Bricker, Frances	Myers, Margaret
Brogan, Margaret F.	Myers, Mary Elizabeth
Purrell, Mrs. Esther	Norton, Bessie
Cook, Sarah	Peterson, Eva M.
Cratty, Stella E.	Scheurman, Louise
Crispin, Frederica	Scholes, Hazel
Curfman, Bessie F.	Smith, Florence M.
Dambach, Mary E.	Smith, Jessie G.
Dean, Anna H.	Steckhan, Charlotte
Dillehay, Albert J.	Steckhan, Bertha
Dunckley, Sarah E.	Wagoner, Mrs. Ellen
Earle, Mabelle	Woleott, Fannie
Fackler, Mary A.	Welsh, Tressa M.
Grigsby, Myrtle E.	Williamson, Ada
Haymaker, Nellie B.	Wolfe, Erdie R.
Howbridge, Ruth	Yonson, Mabel I.

DEGREES CONFERRED

Class of 1921

BACHELOR OF ARTS

Harold Edwards Bruner.....	Akron
Marie Louise Cheval.....	Paris, France
Claude V. D. Emmons.....	Akron
Earl Grover Gudikunst.....	Akron
William Hardy Knowlton.....	Akron
Emmer Martin Lancaster.....	Akron
Mary Ann McIlwain.....	Akron
Charles Harold Musser.....	Akron
Helen McBride Osterhouse.....	Akron
William Arthur Rowley.....	Akron
Hazel May Stevenson.....	Akron
***Rodney Clair Sutton.....	Akron
Margaret Timmis.....	Akron
Florence Almeda Wagner.....	Akron
George Frederic Weber.....	Morgantown, N. C.
Edward Philip Wentz.....	Akron
Harold Martin Wilson.....	Akron

BACHELOR OF SCIENCE

Henry Casper Berrodin.....	Akron
Robert Bordner.....	Akron
*Frances M. Carmichael.....	Akron
Stanford D. Close.....	Akron
Alvah Wilkins Deans, Jr.....	Coshocton
Rolland David Fox.....	Akron
George Earl Griffin.....	Akron
Isa Lillian Keck.....	Akron
**C. Victor Kendall.....	Columbus
Raymond Clyde Rich.....	Sterling
Robert Voris Sawyer.....	Akron
Harold LaVerne Snyder.....	Akron
***James Alexander Weeks.....	Akron
Warner, Leslie Willyard.....	Ravenna

BACHELOR OF SCIENCE IN HOME ECONOMICS

Miriam Rachel Capron.....	Akron
Rosalind Freedlander.....	Akron
Laise Marie Kraus.....	Akron
Maude Elaine Smith.....	Akron
Louise Whalen.....	Akron

CIVIL ENGINEER

Robert Floyd Fletcher.....	Ravenna
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MECHANICAL ENGINEER

James Charles Carlin.....Kent
 Harold Matthew Dieterich.....Tallmadge
 George William Foster.....Pearl River, N. Y.

BACHELOR OF SCIENCE IN MANUFACTURING PRODUCTION

Edgar Miles Thorpe.....Ravenna

MASTER OF SCIENCE

Herbert Arthur Endres.....Los Angeles, Calif.
 A. B., Leland Stanford Junior University

*In combined Arts-Nursing Course with Lakeside Hospital.

**In combined Arts-Agriculture Course with Ohio State University.

***In combined Arts-Law Course with Western Reserve University.

PUBLIC ADDRESSES—1921

- January 7 Dean Elizabeth A. Thompson—"Joan of Arc."
- January 14 President J. E. McGilvrey of Kent State Normal School—"The Teacher's Profession."
- February 18 Frank D. McElroy, Assistant Superintendent of Schools.
- March 4 Rev. Jo W. Fast, "The Chalk Line."
- April 8 E. S. Babcox, India Rubber Review—"Readjustment."
- April 15 Mr. R. E. Clark, Department of Foreign Trade and Commerce—"Foreign Trade of United States."
- April 29 Mr. E. H. McIntosh, Goodyear Tire and Rubber Co.—"Personal Experiences During the Great War."
- May 3 Dr. Charles E. Barker—"How to Make the Most of Life."
- May 13 Mr. Alfredo Serratos—"Mexico."
- June 15 Dr. Frederick B. Robinson—"The Great Investment."
- September 30 Dr. Lloyd Douglas—"Many are called but few are chosen."
- October 7 Rev. Dr. J. W. VanKirk—"International Peace."
- October 14 Rev. George P. Atwater—"By-Products of College Days."
- October 28 T. E. Smith, American Red Cross.
- November 4 Dean A. I. Spanton—"Sentiment."
- November 11 Armistice Day—Capt. W. H. Wilkie, Commander of Summit Post of the American Legion.
- December 2 James A. Weeks, '21, Western Reserve Law School.
- December 16 Dean W. J. Bankes—"Gifts."

PRIZES AND HONORS**The Ashton Prizes**

Senior Ashton Prize contest, January 18, 1921. First prize awarded to George Frederic Weber; second prize to Isa Lillian Keck.

Sophomore Ashton Prize contest, April 22, 1921. First prize awarded to Bertram St. John; second prize to Jacob Vivian Naugle.

Junior Ashton Prize contest, June 2, 1921. First prize awarded to Paul Herbert Wentink; second prize to Geraldine Markle.

The Senior Alumni Prize

The Senior Alumni Prize was awarded to Warner L. Willyard.

The Tomlinson Prizes

The Tomlinson Prizes were awarded to the following students: Harry C. Guckeyson, '22, first prize; Rosalind Freedlander, '21, second prize.

The Loomis Cup

The Loomis Cup was won by West High School in 1915-1916, by South High School in 1916-1917, 1917-1918 and 1918-1919, which makes it the permanent possession of South High School. The Winner of a second cup for 1919-1920 was West High School and for 1920-1921 South High School.

Phi Sigma Alpha

The two students chosen for membership in Phi Sigma Alpha Fraternity from the senior class of 1921 were Warner L. Willyard and Helen M. Osterhouse.

BUCHTEL COLLEGE ALUMNI ASSOCIATION

Organized July, 1874

Incorporated October 19, 1899

OFFICERS FOR 1921-1922

President, A. I. Spanton, '99.....Akron
 Vice-Presidents, Chas. Bulger, '08.....Akron
 Amelia Schoeninger, '98.....Akron
 Secretary, Kathryn Miller, '16.....Akron
 Treasurer, A. E. Hardgrove, '11.....Akron

ALUMNI BOARD OF TRUSTEES**Officers**

A. I. Spanton, '99.....President ex-officio
 Kathryn Miller, '16.....Secretary ex-officio
 A. E. Hardgrove.....Treasurer ex-officio

Term Expiring June, 1922

Frank Goehring, '08.....Akron
 Alfred Herberich, '11.....Akron
 C. C. McNeil, '09.....Akron
 Joseph Hanan, '10.....Akron

Term Expiring June, 1923

W. T. Sawyer, '87.....Akron
 J. C. Frank, '99.....Akron
 Mrs. Harold Fleming, '11.....Akron
 Mrs. Frank Paul, '08.....Akron

Term Expiring June, 1924

Bruce Bierce, '20.....Cuyahoga Falls
 Irene Willson, '16.....Akron
 Ray Mertz, '17.....Akron
 Mrs. Charles Bulger, '94.....Akron

Annual meeting of the Association during Commencement.

Stated meetings of the Alumni Board of Trustees on 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	392
Women	298
Total	690

Geographical Distribution

Deceased	68
Unknown	4
In California	13
In Colorado	4
In Connecticut	1
In Florida	1
In France	1
In Georgia	3
In Idaho	3
In Illinois	9
In Indiana	14
In Iowa	3
In Kansas	2
In Massachusetts	10
In Michigan	12
In Minnesota	1
In Mississippi	1
In Missouri	3
In Montana	1
In Nebraska	2
In N. Carolina	1
In N. Dakota	1
In New Jersey	2
In New Mexico	1
In New York	29
In Ohio	460
In Oklahoma	1
In Oregon	2
In Pennsylvania	19
In Tennessee	1
In Texas	1
In Utah	1
In Vermont	3
In Washington	2
In Wisconsin	1
In Wyoming	1
In Panama	2

Occupations of Alumni

Actors	2
Architects	1
Artists	1
Authors	3
Bankers	4
Charity Organization Work	2
Chemists	26
Clergymen	11
Clerical Work	25
Commercial Work	77
Contractors	1
Decorators	1
Dietitians	5
Engineers	24
Farmers	10
Forestry	1
Government Employ	8
Insurance and Real Estate	9
Lawyers	42
Librarians	7
Living at Home	48
Lyceum Bureau Work	1
Manufacturers	4
Married Women	91
Merchants	4
Musicians	4
Newspaper Work	7
Nurses	5
Physicians	18
Promoters	4
Public Service	2
R. R. Agents	1
Salesmen	9
Secretarial Work	12
Students	18
Teachers and Professors	116
Unknown	18

INDEX

Subject	Page
Addresses, Public	216
Administrative Officers	12
Admission:	
General Statement	29
Buchtel College of Liberal Arts	44
College of Engineering and Commerce	85
Curtis School of Home Economics	112
Extension Courses	148
Teachers College	121
Advanced Standing	30
Advertising	156
Aim of University	20
Alumni Association	218
Ashton Prizes	24, 217
Astronomy	65
Athletics	29, 74
Bacteriology	73
Bierce Library	23
Biology	71, 98, 118, 137, 157
Board of Directors.....	12
Buchtel College of Liberal Arts.....	21, 41
Bureau of City Tests	181
Bureau of Student Employment	28
Calendar	9
Chemistry	67, 98, 118, 137
Civil Engineering	95
Classical Archeology	50
Classical Course	46
Classification	37
College of Engineering and Commerce	21, 82
Combination Courses	22, 174
Commerce and Administration	84, 94, 105, 154
Committees of Board of Directors	12
Committees of Faculty	18
Community Co-operation	22, 181
Co-operative Work by University	182
Credit for Extension Courses	148
Curtis School of Home Economics	21, 112
Degrees Conferred in 1921	214

Subject	Page
Degrees:	
Buchtel College of Liberal Arts	46
College of Engineering and Commerce	86
Curtis School of Home Economics	114
Teachers College	129
Departments of University	21
Dramatic Study	56
Economics	61, 153
Election of Subjects in Other Schools of the University.....	37
Electrical Engineering	91
Endowments	42
Engineering Subjects	100
English Language and Literature	51, 96, 117, 135, 151
Entrance at Mid-year	31
Entrance Requirements:	
Buchtel College of Liberal Arts	44
College of Engineering and Commerce	86
Curtis School of Home Economics	112
Teachers College	121
Entrance Units, Description of	31
Equipment	22
Extension Courses	22, 143, 148, 169
Extension Lectures	155
Faculty Committees and Representatives	18
Faculty, General	13
Failure	37
Fees, Buchtel College	48
College of Engineering and Commerce	86
Curtis School of Home Economics	114
Extension Courses	149
General Statement	38
Laboratory	48, 87, 114
Late Registration	39, 149
Fellowships	26
Foundation	20, 41
Freuch	57, 97, 118, 150
Freshman Studies, Lectures	45, 81, 141
Funds, Prizes and Scholarships	24
General Information	20
General Regulations	37
Geology	99
German	58, 117, 150

Subject	Page
Greek	49
History	62, 118, 137
Home Economics Subjects	115, 138, 158
Honorable Dismissal, College of Engineering and Commerce..	85
Honor Courses	26
Industrial Engineering	84, 93
Incorporation of Buchtel College	41
Irregular Students	30, 194
Katherine Claypole Fund	24
Laboratory Fees	48, 86, 115
Language and Literature	52
Late Registration Fee	39, 149
Latin	50
Lecture Courses, Extension	155
Library	23
Living Conditions	39
Loan Funds by Civic Organizations	24
Loomis Cup	25, 217
Majors and Minors	46
Mathematics	63, 97, 158
Mechanical Engineering	90
Methods and Teaching	135, 165
Military Science and Tactics	76, 111
Minors	47
Modern Languages	57
Music	80, 140
Non-resident Students—Fees.....	38
Officers of Board of Directors	12
Phi Sigma Alpha	28, 217
Philosophy	59, 153
Physical Education	74, 141
Physies	65, 99, 118, 138, 157
Political Science	60
Presidents of Buchtel College	41
Prizes	24
Prizes and Honors Awarded	217
Psychology and Education	130, 159
Public Addresses	216
Register of Students	186
Registration	36, 88, 122, 142, 148
Regulations	37
Required Subjects for Bachelor of Arts Degree	45

Subject	Page
Required Subjects for Bachelor of Science Degree.....	45
Requirements for Degree	37
Reserve Officers' Training Corps	76
Resident Students—Fees	38
Rhetoric	51
Rhodes Scholarship	26
Schedule of Extension Courses	169
Scholarships, Buchtel College	25, 43
Scholarships, Rhodes	26
Scientific Course	46
Secretarial Course	84, 95
Self Help	39
Senior Alumni Prize	24, 217
Shop Work	84
Sociology	58, 118, 139
Spanish	58, 96, 118, 150
Special Students	30, 194, 199
Speech	55, 136, 152
Standards	23
Student Assistants	18
Student Assistantships	40
Student Employment Bureau	28
Student Organizations	28
Subjects of Instruction:	
Buchtel College of Liberal Arts	49
College of Engineering and Commerce	96
Curtis School of Home Economics	115
Extension Courses	143
Teachers College	129
Table of Contents	3
Teachers College	21, 119
Term Hour	37
Thesis	48
Tomlinson Prizes	25, 217
Trade Teaching Courses	145
Tuition	27, 86, 120
University Lectures	172
Wages, Engineering College	85