Registrar's Office

# THE MUNICIPAL UNIVERSITY of AKRON

AKRON, OHIO

MAY, 1923

ANNUAL CATALOG



PUBLISHED BY
THE MUNICIPAL UNIVERSITY OF AKRON

# Tenth Annual Catalog of The Municipal University of Akron

And Fifty-second Annual Catalog of Buchtel College

> AKRON, OHIO May, 1923

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#### UNIVERSITY CALENDAR

1923

January 2, Tuesday January 17-24

January 18, Thursday January 26 and 27

January 27, Saturday 2:00-5:00 and 7:00-9:00 P. M. January 29 to February 3

February 7, Wednesday

February 19, Monday

February 22, Thursday

March 5, Monday

March 24, Saturday noon

April 2, Monday
May 17, Thursday
May 25, Friday
May 30, Wednesday
June 2, Saturday
June 9, Saturday noon
June 11-16
June 17, Sunday
June 18-20
Monday to Wednesday inclusive

Class work resumed.
Classification for second semester for all students except co-operative engineers.

Founder's Day.

Registration and Classification for new students — Friday, 1:00-4:00 P. M. Saturday, 8:00-11:00 A. M.

Registration and classification for Evening Session.

Final examinations for all departments.

Second semester begins for all departments except Co-operative Engineering.

Classification for Co-operative Engineering students, Section I.

Washington's Birthday—a holiday.

Classification for Co-operative Engineering students, Section

Easter recess begins.

Class work resumed.
Student Elections.
Tree Day.
Memorial Day—a holiday.
Evening Session closes.
Senior Vacation begins.
Final Examinations.
Baccalaureate Exercises.
Commencement.

June 18 to July 27

June 25 to August 18

#### After July 15

September 14 and 15. Friday, 9:00 A. M.— 5:00 P. M. Saturday, 8:00 A. M. ---12:00 noon

September 15, Saturday 2:00-5:00 and 7:00-9:00 P. M.

September 17, Monday

September 17 and 18

September 18, Tuesday

September 19, Wednesday

September 19, Wednesday

September 27, Thursday October 1, Monday

November 29, 30 and December 1, Thursday, Friday and Saturday

Summer Session in Teachers College.

Summer Session for Co-operative Engineering students.

New students register during the summer.

Final registration and Classification of new students.

Registration and classification for Evening Session.

Registration and classification for College of Engineering and Commerce (Section I for Co-operative students).

Registration and classification for upper classmen in Buchtel College of Liberal Arts, Curtis School of Home Economics, Teachers College.

Class work begins for College of Engineering and Commerce.

Class work begins for Buchtel College of Liberal Arts, Curtis School of Home Economics, Teachers College.

First semester begins for Evening Session.

Freshman Elections.

Registration and classification for College of Engineering and Commerce (Section II for Co-operative students).

Thanksgiving Recess.

December 21, Friday, 5:00 P. M.

Christmas vacation begins for all departments.

#### 1924

January 7, Monday

January 18, Friday January 23-30

January 25 and 26

January 26, Saturday, 2:00-5:00 and 7:00-9:00 P. M. January 28 to February 2

February 4, Monday

February 6, Wednesday

February 18, Monday

February 22, Friday

March 3, Monday

April 12, Saturday

April 21, Monday May 15, Thursday May 23, Friday June 9-14 June 13, Friday June 15, Sunday June 16-18, Monday to Wednesday inclusive. Class work resumed in all departments.

Founder's Day.

Classification for second semester. All departments except Co-operative Engineering and Commerce.

Registration and classification for new students.

Registration and classification for Evening Session for second semester. Final examinations.

Class work begins for Evening Session.

Second semester begins for all departments except Co-operative Engineering and Commerce.

Classification for Co-operative Engineering and Commerce students, Section I.

Washington's Birthday—a holiday.

Classification for Co-operative Engineering and Commerce students, Section II.

Easter recess begins.

Class work resumed. Student Elections. Tree Day. Final Examinations. Evening Session closes. Baccalaureate Exercises. Commencement.

#### THE BOARD OF DIRECTORS

Frank M. Cooke	Term	expires	1924
Mrs. Charles W. Averell			
• Fred M. Harpham	Term	expires	1924
JOHN W. THOMAS	Term	expires	1926
E. R. Held	Term	expires	1926
B. A. Polsky	Term	expires	1926
P. W. LITCHFIELD	Term	expires	1928
WM. H. EAGER			
CLYDE F. BEERY	Term	expires	1928

#### Officers for 1923

F. M. COOKE	 ırman
CHARLES R. OLIN	 Clerk

#### Committees for 1923

Committee on Finance: Harpham, Polsky, Held.
Committee on Investments: Cooke, Beery, Averell.
Committee on Buildings and Grounds: Thomas, LitchFIELD, EAGER.

## ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

UNIVERSITY		
PARKE R. KOLBE, Ph. DPresident of the University		
CHARLES R. OLIN, M. SSecretary of the University		
GLADYS P. WEEKS		
OSCAR E. OLIN, LL. DVice-President of the Faculty		
H. V. EGBERT, A. MSecretary of the Faculty		
Albert I. Spanton, A. M.		
Dean of Buchtel College of Liberal Arts		
Fred E. Ayer, C. E.		
Dean of the College of Engineering and Commerce		
SARAH E. STIMMEL, B. S		
Director of the School of Home Economics		
W. J. BANKES, A. M		
Dean of Teachers College and Director of Summer		
Session.		
ELIZABETH A. THOMPSON, A. MDean of Women		
Frederick S. Sefton, B. S. Physical Director		
D D D Librarian		

#### GENERAL FACULTY AND OFFICERS OF INSTRUCTION

1922-1923

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 Evening Session.

331 Beechwood Drive

FRED E. AYER, C. E.

Professor of Civil Engineering and Dean of the College of Engineering and Commerce.

Tallmadge, Ohio SARAH E. STIMMEL, B. S.

Director of the School of Home Economics

181 Merriman Road

W. J. Bankes, A. M.

Dean of Teachers College and Director of Summer Session.

355 Pioneer Street
FREDERICK S. SEFTON, B. S.

Director of the Department of Physical Education
1011 Bloomfield Avenue

CHARLES BULGER, A. M.

Hilton Professor of Modern Languages

74 Mayfield Avenue

/ Amon B. Plowman, Ph. D. Professor of Biology 346 Crown Street / \*Elizabeth A. Thompson, A. M. Professor of History and Dean of Women 109 South Forge Street Fred F. Householder, M. A. Professor of Physics 82 Belvidere Way GLEN H. ANDERSON, Captain, Infantry, U. S. A. Professor of Military Science and Tactics 619 Lumiere Street EARL WILLIS CRECRAFT, Ph. D. Professor of Political Science and Economics 688 East Buchtel Avenue †LAWRENCE M. McDermott, A. M.

Professor of Commerce and Business Administration 362 East Buchtel Avenue

JOHN L. JONES, Ph. D.

Ainsworth Professor of Mathematics 49 Kathron Avenue, Cuyahoga Falls, Ohio THOMAS L. McJoynt, LL. B., B. C. S. Professor of Co-ordination

954 Hereford Drive

GEORGE L. HAYES, Ph. D. Professor of Education

341 Ido Avenue

HERMAS V. EGBERT, A. M. Professor of Mathematics

440 East Buchtel Avenue

Ross C. Durst, C. E.

Professor of Civil Engineering
103 Brick Street, Cuyahoga Falls, Ohio

HENRY P. GAUSS, M. E.

Professor of Mechanical Engineering
132 Springfield Road, R. R. 24

JOHN T. WALTHER, B. S.

Professor of Electrical Engineering

384 Reed Avenue

<sup>\*</sup>On leave of absence first semester, 1922-23. †On leave of absence second semester, 1922-23.

‡WILLIAM LORING HALL, A. M. Professor of History

237 Bernard Court

§Josiah J. Babcock, A. M., LL. B.

Professor of Commerce and Business Administration

566 East Buchtel Avenue

RICHARD H. SCHMIDT, A. M.

Assistant-Professor of Chemistry

Sawyerwood, East Akron, Ohio

KATHARINE M. REED, A. M.

Assistant Professor of Modern Languages

\*Acting Dean of Women

900 Elmore Avenue

RAYMOND B. PEASE, Ph. D.

Assistant-Professor of English

398 East Buchtel Avenue

CHARLES RICHARDSON SMITH, First Lieut., Inf., U. S. A.

Assistant-Professor of Military Science and Tactics

264 West Market Street

KENTON PARKES COOLEY, First Lieutenant, Inf., U. S. A.

Assistant-Professor of Military Science and Tactics

264 West Market Street

Fred S. Griffin, M. E.

Assistant-Professor of Mechanical Engineering

157 Marvin Avenue

John L. Buys, Ph. D.

Assistant-Professor of Biology

134 Good Street

CARITA McEbright, A. B.

Instructor in Speech

396 East Market Street

† John W. Bulger, B. C. E.

Instructor in Mathematics

EARLE BARTON HOWE, A. M. Instructor in English

252 Spicer Street

<sup>\*</sup>First semester, 1922-23.

<sup>†</sup>On leave of absence, 1922-23.

<sup>‡</sup>First semester, 1922-23.

<sup>§</sup>Second semester, 1922-23.

RITA E. STINSON, B. S. Instructor in Home Economics 594 East Market Street MAE FRIEDLANDER, M. S. Instructor in Biology 264 West Market Street ERNEST F. SCHAEFER, B. E. M. Director of the Bureau of City Tests Instructor in Metallurgy 792 Kenyon Street Francesco B. DeLeone, Mus. D. Director of Music 197 West Market Street HENRY METZGER, Master Sergeant, Retired, Inf., U. S. A. Instructor in Military Science and Tactics 816 Ruth Avenue \*Roy C. Olson, First Sergeant, Inf., U. S. A., D. E. M. L. Instructor in Military Science and Tactics 481 Wheeler Street HENRI TAILLIART Instructor in Modern Languages 604 East Market Street WILLIAM DON HARRISON, A. M. University Editor Instructor in English 173 North Portage Path WILLIAM ARTHUR MOORE, M. A. Instructor in Chemistry 511 Ritchie Avenue HERMAN EARLE SAYGER, B. S. Instructor in Physical Education 349 Beechwood Drive WILL H. LIPSCOMBE, B. S. Instructor in Mathematics 264 West Market Street LLOYD M. SHORT, Ph. D. Instructor in Political Science 242 Bernard Court †W. J. GALLMAN, A. B.

Instructor in English

<sup>\*</sup>Retired, February 3, 1923. †Resigned October 1, 1922.

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

Associate Librarian and Instructor in Library Science
517 Crosby Street

HELEN McBride Osterhouse, A. B.

Assistant Librarian
81 Wise Street

#### \*Additional Instructors

Belle D. Boyson, Ph. B	Applied Social Science
ALVIN S. VOGELGESANG	
GORDON COOK	Advertising
R. H. HEMPILL	
R. G. WHITNEY, M. E.	Salesmanship
D. M. SHARER, A. B.	Business Administration

#### Co-operating Officers and Teachers of Akron Schools

Co-operating Omicers and Teachers of Akron Schools
CARROLL R. REED, A. MSuperintendent of Schools
Frank D. McElroy, A. M.
E. E. Morley, A. MPrincipal of West High School
HUGH R. SMITH, A. BPrincipal of North High School
HAROLD A. FERGUSON, A. M.
Principal of Control High School
C. J. BOWMAN, A. M. Principal, of South High School
O. C. HATTON, A. B. 4/7 Principal of Mason School
C. J. BOWMAN, A. M. Principal of South High School O. C. HATTON, A. B. Principal of Mason School FLORA G. HOOVER, A. B. Instructor in Mason School
A. O. HECK, A. M. Director, Bureau of Research A. J. DILLEHAY 149.7 (Life Principal of Robinson School
*A. J. DILLEHAY 149.7 Principal of Robinson School
MRS. HELEN L. EVANS 11.3 S. Kindergarten
Mrs. Agatha S. Howes 26 2 2011) Our Kindergarten
MRS. HELEN L. EVANS 11.3 Kindergarten MRS. AGATHA S. HOWES 26 Supervisor of Music OLIVE S. CARSON Supervisor of Primary Grades
OLIVE S. CARSON Supervisor of Primary Grades
ULIA HAZEL KENNISTON I IN COLOR APT
R. H. WATERHOUSE Director of Trade Extension Work
+ was the III - Contract It

<sup>\*</sup>Part-time instructors.

Mabel Jane Rogers, A. M.
Instructor in Romance Languages

149 South Union Street

ROBERT J. ANDERSON, B. S. in E. E.
Instructor in Electrical Engineering

1256 Lexington Avenue

George B. McCowen, B. S. in Business Administration Instructor in Commerce and Business Administration

1851/2 Carroll Street

Walter A. Gilmour, B. S. in C. E. Instructor in Mathematics

861 Aberdeen Street

Mrs. Mary Jane Rothrock, A. B.

Instructor in English 577 East Market Street

T. Robert Schweitzer, B. S.

Assistant in Bureau of City Tests

205 Spicer Street

MARIE LOUISE CHEVAL, A. B.

Graduate Assistant in Romance Languages

50 Atlas Street

JOHN MORRIS DAVIES, B. S.

Graduate Assistant in Physics

892 Courtland Avenue

\*Mrs. Annie L. MacKinnon

Instructor in English<sup>-</sup>

418 Vine Street

\*SARAH E. DUNCKLEY

Physical Instructor for Women

390 Berry Avenue

ROLLAND D. Fox, B. S.

Graduate Assistant in Biology

395 Doyle Street

Library Staff

RENA B. FINDLEY
Librarian

404 Mell Avenue

\*Part-time instructors.

#### 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 Muni-

cipal 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 municipal institution, the University seeks to develop its units or departments into such

#### Library

Householder, Crecraft, Findley, (Secretary) Hayes, Cushman, Howe, Gauss

#### Scholarship and Honors

Rockwell, Jones, Buys

#### Extension Lectures

ROCKWELL, BANKES, CRECRAFT

#### University Assembly

DURST, GILMOUR, ANDERSON, TAILLIART

#### Faculty Representatives for University Activities

Freshman Class	SIMMONS
SOPHOMORE CLASS	Crecraft
JUNIOR CLASS	Moore
SENIOR CLASS	
Men's Club Rooms	Sefton
Women's Club Rooms	
Women's League	Stinson
MUSICAL ORGANIZATIONS	
STUDENT PUBLICATIONS	Harrison

#### COMMITTEES OF THE GENERAL FACULTY

1922-1923

#### Executive

KOLBE, O. E. OLIN, SPANTON, AYER, SIMMONS, BANKES, WEEKS (Secretary)

#### Entrance

SCHMIDT, SPANTON, AYER, BANKES, STIMMEL

#### Classification

Buchtel College—Bulger, Spanton, Plowman, Crecraft, Egbert, Jones, Householder, Schmidt, Howe, Harrison, Lipscombe

College of Engineering and Commerce—Bulger, Ayer, McJoynt, McDermott, Durst

Curtis School of Home Economics—Bulger, Stimmel, Stinson

Teachers College—Bulger, Bankes, Hayes Evening Session—Simmons, McDermott, Bankes, Hayes, Stimmel, Pease, Tailliart, Friedlander, Mac-Kinnon, Short, McEbright, Boyson

#### Public Speaking

McEbright, McDermott, Thompson

#### Social

DEAN OF WOMEN, HAYES, G. H. ANDERSON, REED, GRIFFIN, ROGERS

#### Holiday Observance

REED, WALTHER, BANKES, DELEONE, DUNCKLEY AND CLASS ADVISERS

#### Athletics

C. Bulger, Sefton, C. R. Olin, Moore

#### University Printing

McJoynt, Cooley, Harrison

#### Student Affairs

(Council, Honor System, Elections, Advisers, etc.)
SIMMONS, PLOWMAN, DEAN OF WOMEN, SAYGER, SMITH

#### \*Supervisors of Practice Teaching

AGATHA S. SCHLENKER	Kindergarten
Mrs. Edith O. Simpson	
HELEN KELLEY	Second and Third Grades
ALICE McArtor	Fifth and Sixth Grades
C. E. Hilbish	Mathematics
Emma Stuckey	History
L. E. KIRTLEY	History
Mrs. Esther S. Burrell	
Mrs. Blanche Brady	Biology
GRACE TODD	History
I. S. Latta	French
CAROLINE KEMPEL	Mathematics
RUTH J. BRADLEY	English

#### Fellows in Chemistry

GARRETT H. BARNES, B. S., Massachusetts Institute of Technology, 1922.
FRANK MCWHORTER, B. S. in Chemical Engineering, University of Delaware, 1921.

#### Student Assistants

Helen Pouchot	Business	Administration
WILLIAM ROBB	Business	Administration
EDITH GRACE CRAY		English
ANNA ELEANOR DAVIS		English
KATHLEEN MASTERSON		English
RUSSELL F. SNYDER		
HARRY N. VAN BERG		
GLADYS CHAMBERLAIN		History
HARRIETT ELIZABETH BACHTEL		Library
NELLIE MILLER		Library
HAROLD MONG		
ARTHUR CHAMBERS		
J. GLENARD HARRY		Physics
Hollie Williams		Physics
DAISY MAE SNAVELY	<i>l</i>	Political Science
CHARLES C. SWITZER	·	Social Science

<sup>\*</sup>Part-time instructors.

schools as may train the high school graduate in the field of liberal arts and 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 gives 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 Evening Session.

#### BUCHTEL COLLEGE OF LIBERAL ARTS

The College of Liberal Arts endeavors 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 EVENING SESSION

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

#### 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 17,000 cataloged 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 co-operative service between the wo 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, for 1921-1922, West 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 Commence-

ment Week.

#### FREE TUITION

#### (To take effect with class entering September, 1923)

Tuition at the University of Akron shall be free to all students whose parents are actual residents of the city of Akron.

Any student whose parents are not residents of Akron must pay tuition unless he is twenty-one years of age and has resided in Akron at least one year immediately preceding his enrollment in the University; no person shall be considered to have gained a residence in this city for

the purpose of securing free tuition while he is a student in the University.

The residence of minors shall follow that of the parents, or legal guardian if parents be deceased.

Aliens who have taken out their first citizenship papers and who have been residents of Akron for twelve months next preceding the date of their enrollment in the University shall be regarded as eligible for registration as residents of Akron.

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

#### STUDENT ORGANIZATIONS

The following 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 factulty 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 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.

This original limitation has been widened as follows: That the faculty may elect and recommend for membership in Phi Sigma Alpha any students who have maintained a grade averaging 88 per cent in the Liberal Arts College, whether first, they are completing the regular four-year course, or second, they have come to us from other institutions and have completed two and a half years of work with us.

These 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.

#### 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 twenty-one years of age, as special students not in candidacy for a degree.

<sup>\*</sup>The Directors of the University reserve the right to formulate and publish additional rules governing entrance for the academic year 1923-24 should conditions necessitate further limitation or selection of entrants.

#### 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 Professor R. H. Schmidt, Chairman of the Entrance Committee 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. Except in Buchtel College three-fourths of this must be professional work done in the college granting the degree.

Applications for advanced standing will not be considered until the registrar of the University has received list of credits and honorable dismissal from the institution

from which the student desires to be transferred.

#### Special Students

Students over twenty-one years of age, even the 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 47
College of Engineering and Commerce ...page 91
Curtis School of Home Economics .....page 117
Teachers College .....page 128
Evening Session .....page 164

#### 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:

English3	or 4	units
Foreign Languag	e (ne	ot
more than 6 u	inits `ii	all)
Greek1		
Latin1	to 4	units
French1	to 4	units
German1	to 4	units
Spanish1	or 2	units
History, Social	Science	s,
and Civics (n	ot mo	ré
than 4 units i	n all)	
Adv. U. S. Hist.	½ or :	1 unit
English History 4	or 1	unit
General History	1	unit
Ancient History	1	unit
Medieval and Mod	l-	
ern History	1	unit
Civics	<del>1/2</del>	unit
Political Economy	/ <del>1/2</del>	unit
Mathematics	2½ to 4	units
Algebra	1 to 2	units
Geometry, Plane-	]	l unit
Geometry, Solid	1/2	unit
Trigonometry		unit
-	-	•

Science (not more than
4 units in all)
Physics1 unit
Chemistry1 unit
Zoology
Botany
Physiology
Physiography 1/2 or 1 unit
Company Colonia 72 Of 1 unit
General Science1 unit
Vocational Subjects (not
more than 3 units in
all)
Manual Arts 1 to 3 units
Domestic Science 1 to 3 units
Com'l Subjects 1 to 3 units
A -mi-sultum - 1/ -m t -mi-
Agriculture

#### Entrance at Mid-year

Students graduating from high school at mid-year may enter any classes in first year work not already filled to capacity.

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.

#### 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.) Caesar'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 amuse-

ments 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 practise 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 dic-

tation; 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.

## HISTORY, CIVICS AND POLITICAL ECONOMY

Advanced U. S. History,  $\frac{1}{2}$  or 1 Unit General History, 1 Unit English History,  $\frac{1}{2}$  or 1 Unit Ancient History, 1 Unit Medieval and Modern History, 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.

#### **MATHEMATICS**

## Algebra, 11/2 or 2 Units

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

## Geometry, 1 or 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 rectilinear figures; the circle and the measure of angles; similar polygons; areas; regular polygons; the relation of lines and planes in space; the properties and measure of prisms, pyramids, cylinders and cones; the sphere, and

the spherical triangle.

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

Trigonometry, ½ unit

# 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, to gether 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 ½ 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, ½ or 1 Unit

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

### General Science, 1 Unit

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

#### **VOCATIONAL SUBJECTS**

Manual Arts, 1 to 3 Units Domestic Science, 1 to 3 Units Commercial Subjects, 1 to 3 Units Agriculture, ½ or 1 Unit

## REGISTRATION AND CLASSIFICATION

New students, resident in Akron, are urged to register and classify during the summer. For this purpose they should report to Professor R. H. Schmidt, Chairman of the Entrance Committee, Room 33, Buchtel Hall.

The final days for registration are September 17 and 18 for the first semester and January 25 and 26 for the second semester (see, however, footnote on page 31). This refers to registration for all classes except those of the evening session. For these, see page 164.

All co-operative students in the College of Engineering and Commerce are required to hold themselves in readiness to begin work on July 1.

The Board of Directors of the University reserves the right to limit the number of non-resident students in such manner as may prove necessary.

#### **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 Col-

lege 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 en-

trance 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 29), or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay a maintenance fee of \$18.00 per semester, covering registration, incidentals and student activity fee. If not paid before October 1 of the first semester, or February 18 of the second semester, the fee is \$20.50 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. (See pages 51-92-120.)

Non-Resident Students—The tuition for non-resident students is \$90.00 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 maintenance fee of \$18.00 per semester. The tuition for co-operative students in engineering and commerce is \$60.00 for the first semester,

\$60.00 for the second semester and \$25.00 for the summer term plus the regular maintenance fee of \$18.00 per semester. Fees to cover breakage and materials are also charged to all students in laboratory courses. If not paid before October 1 of the first semester or February 18 of the second semester the tuition fee is \$65.00 in the College of Engineering and Commerce and \$95.00 in other departments and the maintenance fee is \$20.50.

The Directors of the University reserve the right to make changes in the amounts of any or all fees without

previous notice.

## SUMMARY OF FEES

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

## Tuition Fee:\*

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

•		If paid be-
		tween Oct. 1
	If paid before	and Nov. 1
	Oct. 1	or Feb. 18
-	Feb. 18	and April 1
For 9 hours or more	\$90,00	\$95.00
For less than 9 hours, per hour		10.50

#### Maintenance Fee:

Payable by resident and non-resident students.

							If paid be-
							tween Oct. 1
					11, 1	If paid before	and Nov. 1
					1.	Oct. 1	or Feb. 18
	- :	10.00		eccilia caka di	· · · · · · · · · · · · · · · · · · ·	Feb. 18	and April 1
For	8	hours	or m	ore pe	r week	\$18.00	\$20.50
"	7	"	per	week		17.00	19.50
"	6	"	• "	"		15.00	17.00
"	5	"	"	"		13.00	15.00
"	4	"	"	"		11.00	12.50
"	3	"	"	"		9.00	10.50
"	2	"	"	"		7.00	8.00
"	1	hour	"	* (		5.00	6.00

<sup>\*</sup>In effect for all students entering September, 1923 and thereafter. For others, tuition fees will be as in 1922 catalog.

Laboratory fees, breakage deposits and late registration fees are payable before a student is admitted to any classes.

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.

After a student enters classes, no fees will be refunded, except for absence on account of sickness.

## 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

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

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

- \*J. S. CANTWELL, D. D.
- \*Col. Geo. T. Perkins.
- \*HENRY BLANDY.
- \*Rev. Geo. Messenger.
- \*Rev. B. F. EATON.
- \*JUDGE NEWELL D. TIBBALS.
- \*Rev. J. W. Henley, D. D. \*Judge E. P. Green.
- \*O. F. HAYMAKER.
- \*JOHN R. BUCHTEL.
- \*Rev. H. F. MILLER.
- REV. E. L. REXFORD, D. D.
- Rev. H. L. Canfield, D. D.
- \*WILLARD SPAULDING.
- \*George Steese.
- \*Rev. Andrew Willson, D. D.
- \*JAMES A. LANTZ.

## PRESIDENTS OF BUCHTEL COLLEGE

*S. H. McCollester, D. D., Litt. D	1872-1878
E. L. REXFORD, D. D.	1878-1880
*Orello Cone, D. D.	
C. M. KNIGHT, Sc. D. (ad interim)	
I. A. Priest, D. D.	
*A. B. CHURCH, D. D., LL. D.	1901-1912
P. R. Kolbe, Ph. D.	

<sup>\*</sup>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:

bonotationipo in Databate Contago.	
*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	
*Mrs. Geo. W. Steele	Painesville
*George W. Steele	Painesville
*Mrs. Betsey Dodge	McConnellsville
*John Espy	Kenton
*JOSEPH HIDY, SR	Jeffersonville
*Mrs. Henry Boszar	
*Henry Boszar (3)	
*H. D. LOUDENBACK	Westville
*THOMAS KIRBY	Muncie, Ind.
*ISAAC AND LOVINA KELLY	Mill Village, Pa.
*S. T. AND S. A. MOON	Cuba
*George Thomas	
*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
*IOHN P. CHAPIN	New Philadelphia
*CHRISTIAN SWANK	Creston
*Mrs. S. O. Acomb	Tidioute, Pa.
<del></del>	

<sup>\*</sup>Deceased. †In honor of her father, Eliphas Burnham.

*Mrs. Jane Betz (2)	Hamilton
*‡Miss Hannah Allyn	Akron
*Mrs. Rosa G. Wakefield	Green
*Martha A. Bortle	
‡‡Delia Loring Morris	

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

### ENTRANCE REQUIREMENTS

(For general entrance requirements to the University, see page 31.)

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, the Social Sciences. The following 9½ units must be included:

English3	units
Mathematics (Algebra, 1½; Plane Geometry, 1)2½	units
*Foreign Language (4 recommended)2	units
†History1	
Science (must include laboratory work)1	

<sup>\*</sup>Not less than a full unit in the beginning of any language will be accepted. Beginning September, 1924, the two required units must be in the same language.

<sup>\*</sup>Deceased.

<sup>‡</sup>In memory of her father and mother, Mr. and Mrs. Israel Allyn, and her sister, Lucy Allyn.

<sup>‡‡</sup>In memory of her father, Oliver Rice Loring.

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.

<sup>†</sup>Beginning September, 1924, this required unit must be in U. S. History and Civics.

## 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 47.)

For combination courses see page 24.

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.

(women)
Physical Training and
Military Drill (men)

Freshman Lectures

Current Events

†Chemistry

Physics †Biology

French Spanish German

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

#### FRESHMAN STUDIES The A. B. Course

T 11	e A. D. 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	½ credit hour first semester—required
French	3 or 4 credit hours each semester
Spanish	3 or 4 credit hours each semester
German	3 or 4 credit hours each semester one re-
Latin	4 credit hours each semester quired
Greek	4 credit hours each semester
*Mathematics	4 credit hours each semester—required
Current Events	1 credit hour second semester required
	for women
Th	ne B. S. Course

3 credit hours each semester—required 4 credit hours each semester—required Rhetoric Mathematics Physical Training

1 credit hour each semester-required

2 credit hours each semester—required ½ credit hour first semester—required 4 credit hours each semester 4 credit hours each semester one re-4 credit hours each semester quired 3 or 4 credit hours each semester \ 3 or 4 credit hours each semester \ one re-3 or 4 credit hours each semester ) quired 1 credit hour second semester-required for women.

<sup>\*</sup>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

the end of the freshman year the student is asked dicate to the Committee on Classification whatever of work he may wish to pursue. This subject is then on as the "major." Each major brings with it a rof required "minor" subjects. All work beyond reshman year and outside of the major and minor rements is elective, 16 hours per semester being ced as regular work.

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

## TAJORS LEADING TO THE A. B. DEGREE

- I. Greek and Latin. A minimum of 40 hours, at least 14 of which must be Greek.
- J. Latin. A minimum of 32 hours.
- 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. A minimum of 30 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.	English Major-30 hrs.
1. Lit. 63 and 64, 69 and 70, or 75 and 76	6 6 6 6 8 3 8	6 6668 3 88	6 6 6 6 8 8 9	6 6 6 6 8 3 8 8	16	6 4 6 6 6 6 or 8 3	6 4 6 6 6 3	6 6 6 3	6 6 3	6 4 6 6	6 6 3	4 61 6 6

†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.

<sup>&</sup>lt;sup>1</sup>Must be History of England.

<sup>&</sup>lt;sup>2</sup>Must be Psychology.

Must 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 40, 41. 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, per semester hour	-
Biology 401-404, 411-412, 417, 426, 434	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	Co	ourse N	umbers
Ancient Languages	***************************************		1- 50
			51-100
	••••••		
Romance Languages		18	51-200
	ology		
	Science, History		
			01-330
Physics	***************************************	38	31-350
Physics	Tactics	35 40	31-350 51-400

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.

- White's First Greek Book.—(First Semester.) Four hours.
- Gospel of St. Mark—(Second Semester.) Four hours.
- 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. Required minor for major in English. Not given 1923-1924.

## 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.
- 19. Classical Mythology.—(First Semester.) Two hours. For upper classmen. Repeated the second semester as a three-hour course for freshmen. Not given 1923-1924.
- The Influence of Greece and Rome on Modern Life.— (Second Semester.) Two hours. Not given 1923-1924.

#### 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 At least fourteen must be taken in Greek.

25. Cicero (De Amicitia); Plautus (Manaechmi).—(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.

- Pliny (Selected Letters).—(Second Semester.) Four hours. Required of freshmen in Majors I and II.
- 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.

<sup>\*</sup>Open only to juniors and seniors.

- Cicero (De Officiis, Book I); Roman Private Life.—
   (First Semester.) Three hours.
- 30. Vergil (Eclogues and Georgics); Horace (Satires).
  —(Second Semester.) Three hours.
- 84. Latin Masterpieces thru English Translations.—
  (Second Semester.) Three hours. Not given 19231924

The continuation of the preceding course. Open to all upper classmen. Required minor for major in English.

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

### **ENGLISH**

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

Major. The minimum for a major in English is 30 hours, exclusive of Rhetoric 51 and 52. Work for a major must include at least four hours of composition above the freshman year; that is, courses 55-56 or 53-54.

#### RHETORIC

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

This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas clearly, correctly, concisely, and concretely. Attention is devoted particularly to sentence and to paragraph structure. The students write short expository compositions.

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

This course is designed with the same purpose as 51, of which it is a continuation. Attention, however, is given to description, characterization, and narration. The students write compositions that build up to a final long narrative work.

# 53-54. Reporting and News Writing.—(Both Semesters.) Three 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.

## 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.

#### 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.

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.

## LANGUAGE AND LITERATURE

Required work. In addition to the required work in Rhetoric, students in all courses must take at least six hours of Literature. This requirement may be met by electing Courses 63 and 64, 69 and 70, or 75 and 76, preferably 63 and 64.

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.

63-64. Introduction to Literature.—(Both Semesters.)
Three hours.

This course stresses literary types and characteristics rather than the historical development of English literature. It is particularly for students not majoring in English, and should be elected by all such students to satisfy the minor requirement of 6 hours of English. Prerequisite, 51 and 52.

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

A quick survey of Anglo-Saxon and Early English literature, followed by a study of the later literature to the close of the eighteenth century, with special attention to the Elizabethan and Puritan periods. Prerequisite, 51 and 52.

66. Continuation of 65. (Second Semester.) A study of the social forces which have shaped the development of English literature since the close of the eighteenth century, and of the expression of these forces in the works of leading writers. 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. Not given 1923-1924.

## 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. Shakspere.—(First Semester.) Three hours.

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

## 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 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. Not given 1923-1924.

## \*71. Victorian Prose Masters.—(First Semester.) Three hours.

A study of Carlyle, Ruskin, and Matthew Arnold, with some attention to their contemporaries in prose.

\*72. History of the English Language.—(Second Semester.) Three hours. Prerequisite, 65, 66, 67. Not given 1923-1924.

<sup>\*</sup>Open only to juniors and seniors.

# \*73. The Romantic Movement.—(First Semester.) Three hours.

Wordsworth, Coleridge, Byron, Shelley, Keats, De Quincey, Lamb, and their contemporaries. Prerequisite, 65 and 66.

## \*74. Victorian Poetry. — (Second Semester.) Three

Tennyson, Browning, and their contemporaries in poetry. 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.

# \*78. Studies in Comparative Literature. — (Second Semester.) Three hours.

Studies in the work of significant European writers, especially Tolstoy, Ibsen, and Maeterlinck. Prerequisite 65 and 66.

## \*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.

# \*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.

\*81. English Drama.—(First Semester.) Three hours.
Survey of play-writing in England till close of the 18th

<sup>\*</sup>Open only to juniors and seniors.

century, with special attention to the social conditions which created and shaped the plays of each period.

Prerequisite, 65 and 66. Not given 1923-1924.

# \*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. Not given 1923-1924.

# 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. Not given 1923-1924.

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

The continuation of the preceding course. Prerequisite, 51 and 52.

Not given 1923-1924.

## 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

## Use of the Library. — (Second Semester.) Two hours.

<sup>\*</sup>Open only to juniors and seniors.

A study of the card catalog, indexes, general reference books, and other bibliographical aids designed to help the student do efficient reference work for himself. Each student will work out a bibliography on some subject in which he is particularly interested.

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.

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, Shakspere's plays. Classic comedies. Prerequisite, 91

<sup>\*</sup>Open only to juniors and seniors.

## \*94. (Second Semester.)

Course 93 continued. Shakspere'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 con-

tests.

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.

#### MODERN LANGUAGES

PROFESSOR BULGER
ASSISTANT-PROFESSOR REED
MR. TAILLIART
MISS EOGERS
MISS CHEVAL
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. The minimum for a major in this department is 40 hours. The work must include at least 20 hours of each of two of the languages offered (German, French, Spanish).

<sup>\*</sup>Open only to juniors and seniors.

#### FRENCH

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

#### 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.

These courses, 713 to 716, 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 MISS BOYSON

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.

\*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.

<sup>\*</sup>Open only to juniors and seniors.

\*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.

Social Case Work.—(Both Semesters.) Five hours.
Four recitations, and one credit hour of field work.
Text-books: Devine, Mary Richmond.

An elementary course covering the minimum essentials for case work. Discussion of problems as shown by actual case records. Minimum standards for normal living; standards and community facilities for dealing with families below the normal; problems of sickness, mental defect, dependency, delinquency, illegitimacy, etc., as preventing normal living. Theory and technique of family case work including investigation, diagnosis, treatment, and record making.

Open to upper classmen who are already engaged in social work or are contemplating entering the field.

## \*Social Case Work (Advanced).—(Both Semesters.)

Two hours.

Prerequisite, the elementary course or its equiva-

Discussion of case problems. Assignment of individual topics for reports. Reviews of most recent books in the field. General forum for discussion of problems in case work presented by members of the class. Also lectures from specialists in various fields: public health, home economics, racial back grounds, psychiatric, social work, and the law.

#### POLITICAL SCIENCE AND ECONOMICS

## PROFESSOR CRECKAFT DR. SHORT

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

<sup>\*</sup>Open only to juniors and seniors.

### POLITICAL SCIENCE

261. American Government.—(First Semester.)
(Required of all freshmen in the liberal arts course.) Four hours.

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 and discussions.

This course is repeated the second semester.

262. American Government.—(Second Semester.)
(Required of all freshmen in the liberal arts course.) Four hours.

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.

This course is also offered the first semester.

263. Municipal Government.—(First Semester.) Three hours.

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. Open to all upper classmen.

264. Municipal Administration.—(Second Semester.)
Three hours.

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. Open to all upper classmen.

265. International Law.—(First Semester.) Three hours.

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. Open to all upper classmen.

# 266. Constitutional Law.—(Second Semester.) Three hours.

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

# \*267-268. Research Course in Political Science.—(Second Semester.)

Students entering this course should get permission from the instructor. Three credit hours will be granted each semester upon completion of a satisfactory piece of work.

# 269. Political Parties and the Party System.—(First Semester.) Three hours.

An objective study of the American political party system. Course deals with the composition of political parties; their organization; the spoils system; party functions and methods; merits and defects of the party system. Text, discussions, and reports.

## 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. Prerequisite to all other courses in economics.

# 252. Government and Business.—(Second Semester.) Three hours.

A survey of the business and economic problems which confront the national, state, and local governments. The problem of government control and regulation. Activities and functions of government from the economic point of view. Political and economic relationships.

Prerequisite, 251.

<sup>\*</sup>Open only to juniors and seniors.

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. Prerequisite, 251.

254. Labor Problems. — (Second Semester.) Three hours.

Includes brief history of the labor movement; also the problems of an economical and political character that have arisen therefrom. Prerequisite, 251.

255. Public Finance.—(Second Semester.) Three hours. 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. Prerequisite, 251.

#### 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.

## 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 also given 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, 301 and 302.

304. Calculus.—(Second Semester.) Five hours.

Differentiation, maxima and minima, curve tracing, curvature, indeterminate forms, expansion of functions, and applications.

Prerequisite, 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, 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.

<sup>\*</sup>Open only to juniors and seniors.

- 313. Advanced Calculus.
- 314. Theory of Functions.
- 315. Higher Algebra and Geometry.
- 316. Differential Geometry.

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

Three hours.

Prerequisite, 301 and 302.

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

725. College Algebra.

727. Plane Trigonometry.

728-9. Plane and Solid Analytic Geometry.

730-731-733. 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. DAVIES MR. WILLIAMS

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 338, or an equivalent course, a total of 28 hours. Such students will be required to take both freshman and sophomore mathematics.

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

An introductory course covering the topics of mechanics, wave motion and sound. Two recitations and six hours of laboratory work per week.

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

Continuation of 331, covering heat, magnetism, and electricity.

<sup>\*</sup>Open only to juniors and seniors.

- 333. Heat.—(First Semester.) Five hours.

  A more thoro course in the nature of heat, its effects, its measurement, and its relation to work, with an introduction to the kinetic theory. Three recitations and six hours of laboratory work per week. Prerequisite, 331 and 332.
- 334. Electricity and Magnetism.—(Second Semester.)

  Five 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. Prerequisite, 331 and 332.
- 335. Light.—(First Semester.) Three hours.

  An elementary course in light and radiation, completing the general courses 331 and 332. The chief emphasis will be on the laws of geometrical optics; the theory of the microscope, telescope, camera, etc.; and the production and distribution of light for home use. Open to all upper classmen.

  Two recitations and three hours of laboratory work per week. Prerequisite, 331-332.
- \*336. Light.—(Second Semester.) Three 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. Prerequisite, 331, 332, 333, 334, 335.
- \*336a. Light Laboratory.—(Second Semester.) Two hours.
  Laboratory work accompanying 336.
  Interference, diffraction, and polarization phenomena, and their uses; spectrum analyses.
  Six hours of laboratory work per week. Must be taken either with, or after, 336.

<sup>\*</sup>Open only to juniors and seniors.

\*338. Thesis Course. Two to four 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.
- \*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
MB. 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.

Laboratory periods are three hours each.

351. General Inorganic Chemistry.—(First Semester.)
Seven hours. Four recitations and three laboratory periods.

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.

<sup>\*</sup>Open only to juniors and seniors.

Qualitative Analysis.—(Second Semester.)

Seven hours. Four recitations and three labora-

tory periods.

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.

General Inorganic Chemistry.—(First Semester.) Four hours. Two recitations and two laboratory periods.

> A course designed to give the student a better appreciation of the principles which control

the chemical changes of matter.

General Inorganic Chemistry.—(Second Semester.) Four hours. Two recitations and two laboratory periods.

A continuation of 353 and open to students who have passed that course or its equivalent.

Quantitative Analysis.—(First Semester.)

Four hours. One recitation and three laboratory periods. Open to those who have satisfactorily com-

pleted 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

Quantitative Analysis.—(Second Semester.)

Four hours. One recitation and three laboratory

periods.

Open to those who have satisfactorily completed 359 or its equivalent. A continuation of

\*357. Organic Chemistry.—(First Semester.)

Three hours. Two recitations and one laboratory

period.

A discussion of the various methods of chemical

<sup>\*</sup>Open only to juniors and seniors.

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.

- \*358. Organic Chemistry.—(Second Semester.)
  Three hours. Two recitation hours and one laboratory period. A continuation of 357.
- \*363. Chemistry of India Rubber.—(First Semester.)
  Three hours. One recitation and two laboratory periods. 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.

- \*364. Chemistry of India Rubber.—(Second Semester.)
  Three hours. One recitation and two laboratory periods. Continuation of 363.
- \*367. Organic Chemistry.—(First Semester.)

  Three hours. Two recitations and one laboratory period. 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.
- \*368. Organic Chemistry.—(Second Semester.)

  Three hours. Two recitations and one laboratory period. 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.

<sup>\*</sup>Open only to juniors and seniors.

*371.	Physical Chemistry.—(Senior Year, First Semester.)
	Three hours. Two recitations and one laborator,
	period.  The classroom work is devoted to the stud:
	of the gas laws, liquids, solids, and properties o solution, from a physical standpoint.

- \*372. Physical Chemistry.—(Second Semester.)
  Three hours. Two recitations and one laboratory period. Continuation of 371.
- 621. Organic Chemistry.—(First Semester.)

  Four hours. Two recitations and two laboratory periods. For description see Chemistry in the Curtis School of Home Economics.
- 622. Household Chemistry.—(Second Semester.)
  Four hours. Two recitations and two laboratory periods. Continuation of 621.
- 741. Inorganic Chemistry.—(First Semester.)

  For description see Chemistry in the College of Engineering.
- 742. Inorganic Chemistry.—(Second Semester.)
  Continuation of 741.
- 744. Metallurgy.—(Second Semester.)

  Three hours. For description see Chemistry in the College of Engineering.

#### Chemical Course

FRESHMAN YEAR	SOPHOMORE YEAR
Term Hrs. each Semester	Term Hrs. each Semester
Gen. Chem. 351 and 3527         Mathematics       4         Mod. Language       3 or 4         Physical Training       2	Quan. Analysis       4         Biology       4         Mathematics       4 or 5         Mod. Language       3         Physical Training       2         English       3
JUNIOR YEAR	SENIOR YEAR
Org. Chemistry3 Physics	Organic Chemistry3 Physical Chemistry3 Electives.

<sup>\*</sup>Open only to juniors and seniors.

#### **BIOLOGY**

PROFESSOR PLOWMAN ASSISTANT-PROFESSOR BUYS MISS FRIEDLANDER MR. FOX

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

Minor requirements are stated on page 50.

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 six hours of laboratory work 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 434.

403. Vertebrate Anatomy.—(First Semester.) Four hours. One lecture and three laboratory periods of two to three hours each per week. Prerequisite, General Biology, 401-402.

Dissection and study of some of the important systems of organs in representative species of the principal classes of vertebrate animals. The lectures consider the various systems with reference to homologies of structure, and the phylogeny of the vertebrates.

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

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.

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. 1923-1924 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. Two lecture—laboratory sessions of three hours each per week. Prerequisite, General Biology, 401-402.

A study of the cell, cellular origin of the body, and the structure and development of the component tissues and organs. Technique is emphasized in the making of a series of microscopic preparations of various tissues and organs.

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. Required of all sophomore men, candidates for the A. B. degree, except such as elect to take Physiology 407-408.

- 415-516. 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. Open to all college students.

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.
- 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.
- 426. General Entomology.—(Second Semester.) Three hours. Two lectures and six hours of laboratory work per week. Prerequisite, 401-402.

This course includes lectures on the characteristics of orders and the more important families of insects, and on the habits and economic importance of representative species. Laboratory study of the structure of insects and practice in their identification, together with some field work.

427. **Medical Zoology.—(First Semester.)** Two hours. Two lectures per week. Prerequisite, courses 401-402, and General Entomology 426.

Lectures on the structure and life histories of animal parasites, with special reference to those affecting man, and on the causation and transmission of disease by insects.

- 434. College Botany.—(Second Semester.) Three hours. 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.

  A study of the growth, structure, distribution, and classification of common flowering plants.
- 771. **Hygiene and Sanitation.**For students in co-operative engineering courses.
  For description see 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 grand-stand, dressing rooms, einder running track, baseball diamond, and football field with bleachers to accommodate 4,000 spectators.

#### PHYSICAL TRAINING FOR MEN

Requirements: Every student is required to take a physical examination on entering the University. 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 BOY 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 ye	ar 31	6596

#### Basic Course, 3 hours, Sophomore Year

Subjects Theoret	ical Hours	Practical Hours
Map Reading and Military Sketching	8	16
Automatic Rifle		
Bayonet }	9	18
Hand and Rifle Grenade		
Musketry	8	16
Military Hygiene	2	4
Command and Leadership	4	11
Total hours per school year	31	6596

#### The Advanced Course.

This course consists of fire 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 \$10.00 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
Field Engineering	13	51
Military Law		
Rules of Land Warfare \( \)	4	12
Command and Leadership		28
Total hours per school yes	ar 41	119160

#### Advanced Course, 5 hours, Senior Year

Subjects Theoretic Military History	cal Hours	Practical Hours
Administration		6 85
Command and Leadership		28
Total hours per school year	41	119160

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 practical 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 B. 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 or 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 (1½) 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 classroom 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, except those in the Engineering College, 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.

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. Beginning with the fall of 1923, the commerce and administration courses will be operated on the co-operative basis. Students already enrolled will continue on full time.

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 vocational education as being the latest and the one best adapted to the city's needs; therefore no other courses in Engineering and Commerce will be offered.

#### INDUSTRIAL ENGINEERING

A co-operative course is provided 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 of Industrial Engineer. This plan takes the place of the so-called Manufacturing Production course.

#### COMMERCE AND ADMINISTRATION

For those desiring a commercial training, with practical work in factories, offices, and stores, a new co-operative course begins September, 1923. This course extends over five years, including summer work. It is operated

on the alternate period basis for the first two years. During the last three years the students work afternoons and Saturdays. The degree of Bachelor of Science in Commerce and Administration will be given upon completion of the course. A thesis is required.

The full time Commerce and Administration and Secretarial Courses will be discontinued. Students now taking such courses will be permitted to complete them.

#### OUTSIDE 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

professional work.

The shop work and the University work are co-ordinated by technically trained men experienced in professional 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 professional 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 and Commerce students are paid for their outside work 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.

#### MILITARY TRAINING

Military training under the direct supervision of the United States Government is required of all male students physically fit. Men entering the College of Engineering and Commerce are exempt only if they have been two years in attendance at another institution of collegiate grade. It takes three years to complete the basic course on the co-operative or part-time plan, or two years and a basic camp. All freshmen are urged to take the basic camp at the end of the freshman year. Satisfactory arrangements have been made in the summer school for attendance at camp.

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, page 81.

# 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 wit	hout con-
ditions:	
English	3 units
Mathematics	2½ units
Solid Geometry (for engineering students)	$\frac{1}{2}$ unit
Foreign Language	
History	
Science	
Elective	

#### 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 professional 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, and Bachelor of Science in Commerce and Administration 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.

#### FEES

Resident Students:—According to the rules adopted by the Board of Directors, all students who are residents of the City of Akron, or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay a maintenance fee of \$18.00 per semester, covering registration, incidentals, and student activity fee. If not paid within one week after registration, the fee is \$20.50 per semester. Small fees to cover

breakage and materials are also charged to all students in laboratory courses.

Non-resident Students:—The tuition for non-resident students is \$60.00 for the first semester, \$60.00 for the second semester, and \$25.00 for the summer term, in addition to the maintenance fee of \$18.00 per semester. If not paid within one week after registration the tuition is \$65.00 each for the first and second semesters, the maintenance fee, \$20.50, and the tuition for the summer term, \$27.50.

The tuition for all students attending college full time is \$90.00 per semester, in addition to the maintenance fee of \$18.00 per semester. If not paid before October 10, of the first semester or March 13, of the second semester, the tuition fee is \$95.00 per semester and the maintenance fee is \$20.50.

#### 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 810, per semester	2.00
Materials Laboratory, per semester	2.00
Cement Laboratory, per semester	2.00
Mechanical Laboratory, per semester	00.8
Electrical Laboratory, per semester	3.00
Railroads, 853	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-Re	sident
Tuition	Free	<b>\$</b> 60.	00
Fees	\$27.00	27.	00
Books and Drawing Instrum	ents $40.00$	40.	.00
	\$6'	7.00	\$127.00

#### Second Semester

	Resident	Non-Resident	
Tuition	$\dots$ Free	\$60.00	
Fees	\$20.00	20.00	
Books	8.00	8.00	
	\$28	8.00 \$88.00	)

#### Summer Term

	Resident	Non-Reside	ent
Tuition	Free	\$25.00	
Fees	\$ 2.00	2.00	
Books .	5.00	5.00	
		\$7.00	\$32.00

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

### REGISTRATION

Full time students will register on September 17 and 18, 1923. Co-operative students in section one will register on September 17, 1923, and those in section two on October 1, 1923. 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 last 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

1923-1924

# FRESHMAN YEAR

First Semester Cr. H	es. Second Semester Cr. Hrs.			
Military Training 2	Military Training 2			
Physical Training 2	Physical Training 2			
Mathematics 725 6	Mathematics 7276			
Mechanical Drawing 811 4	Mechanical Drawing 822 4			
Elementary Mechanics 781 4	Elementary Mechanics 782 4			
Engineering Laboratory 807 4	Engineering Laboratory 808 4			
Co-ordination 801 2	Co-ordination 802 2			
Sum	mer Term			
	6			
	16			
Surveying 810	10			
<b>SOPHO</b>	MORE YEAR			
First Semester Cr. H				
Military Training 2	Military Training 2			
Physical Training 2	Physical Training 2			
Mathematics 729 6	Mathematics 730 6			
Physics 783 6	Physics 784 6			
Descriptive Geometry 812 4	Steam Power Plants 847 5			
Co-ordination 803 2	Co-ordination 804 2			
Sum	mer Term			
Mathematics 731 6				
Railroads 853				
	6			
- 0.0	INIOR YEAR			
First Semester Cr. H				
Military Training 2	Military Training 2			
Chemistry 741	Chemistry 742 8			
English Composition 701 4	English Composition 702 4			
D. C. Electricity 867 6	A. C. Electricity 868 6			
D. C. Electricity 867 6 D. C. Laboratory 869 4	A. C. Laboratory 870 4			
	•			
Summer Term				
Roofs and Bridges 851         6           Sanitation 771         16				
JUNIOR YEAR				
First Semester Cr. I	rs. Second Semester Cr. Hrs.			
Economics 737 6	Economics 738 6			
English Literature 711 2	English Literature 712 2			
Strength of Materials 837. 6	Analytic Mechanics 842 6			
Materials Laboratory 817 4	Metallurgy 7446			
Hydraulics 849 4	Highways 855 4			

Summer Term		
Cement Testing 861 Reinforced Concrete 873		
•	RYEAR	
First Semester Or. Hrs. Bookkeeping 1027½	Second Semester   Or. Hrs.	
	ENGINEERING	
1923	-1924	
FRESHM	AN YEAR	
First Semester         Or. Hrs.           Military Training         2           Physical Training         2           Mathematics 725         6           Drawing 811         4           Elementary Mechanics 781         4           Engineering Laboratory 807         4           Co-ordination 801         2	Second Semester         Cr. Hrs.           Military Training         2           Physical Training         2           Mathematics         727         6           Drawing         822         4           Elementary Mechanics         782         4           Engineering Laboratory         808         4           Co-ordination         802         2	
Summe	er Term	
Mathematics 728		
SOPHOM	ORE YEAR	
First Semester         Cr. Hrs.           Military Training         2           Physical Training         2           Mathematics 729         6           Physics 783         6           Descriptive Geometry 812         4           Co-ordination 803         2	Second Semester         Or. Hrs.           Military Training         2           Physical Training         2           Mathematics         730         6           Physics         784         6           Steam Power Plants         847         5           Co-ordination         804         2	
Summer Term		
Mathematics 731Steam Power Plants 848	6	
PRE-JUNIOR YEAR		
First Semester Or. Hrs.  Military Training	Second Semester         Cr. Hrs.           Military Training         2           Chemistry 742         8           Analytic Mechanics 842         6           Mechanism 844         5           Mechanism Drawing 846         2           Coordination 806         2	

Summer Term				
Engineering Laboratory 858 Machine Design 845	6 16			
JUNIOR	YEAR			
Thermodynamics 871 5 Thermodynamics 877 4 Machine Design 877 4 M.D. C. Electricity 867 6 A.	Second Semester         Cr. Hrs.           English Composition 702			
Summer Term				
Engineering Laboratory 859 Hygiene and Sanitation 771	6 16			
SENIOR YEAR				
English Literature 711	Second Semester         Cr. Hrs.           Conomics 738         6           English Literature 712         2           Hydraulic Machinery 850         5           Iteam Power Plant         2           Inspection 876         2           Business Organization         1037½         4           Chesis         6			
ELECTRICAL E	NGINEERING			
1923-1	1924			
FRESHMAN YEAR				
Physical Training       2       H         Mathematics       725       6       M         Drawing       811       4       I         Elementary       Mechanics       781       4       I         Engineering       Laboratory       807       4       I	Second Semester         Cr. Hrs.           Military Training         2           Physical Training         2           Mathematics         727         6           Drawing         822         4           Elementary         Mechanics         782         4           Engineering         Laboratory         808         4           Co-ordination         802         2			
Summer Term				
Mathematics 728	6 16			

## SOPHOMORE YEAR Cr. Hrs. Second Semester Cr. Hrs. First Semester Co-ordination 803 ..... 2 Co-ordination 804 ..... 2 Summer Term Mathematics 731 6 Hygiene and Sanitation 771 16 PRE-JUNIOR YEAR | Chemistry 741 | 8 | Chemistry 742 | 8 | English Composition 701 | 4 | English Composition 702 | 4 | C. Electricity 867 | 6 | A. C. Electricity 868 | 6 | C. Laboratory 869 | 4 | A. C. Laboratory 870 | 4 | Summer Term Advanced Electrical Theory 891 ......12 Advanced Electrical Laboratory 901 ......10 JUNIOR YEAR First Semester Cr. Hrs. Second Semester Or. Hrs. Economics 737 ..... 6 Economics 738 ..... 6 English Literature 712 ..... 2 English Literature 711..... 2 English Literature 712 2 Advanced Electrical 3 Advanced Electrical 2 Laboratory 904 2 Analytic Mechanics 842 6 Metallurgy 744 6 Summer Term Advanced Electrical Laboratory 905 ...... 6 Electric Power Plants 896 ......16 SENIOR YEAR Or. Hrs. First Semester Second Semester Cr. Hrs. ..... 4 Special Electrical Prob-lems 899 ...... 4

Business Organization 1037 1/2, ..... 6

Bookkeeping 10271/2 ...... 6

# industrial engineering 1923-1924

First Semester	 	
Summer Term		
Mathematics 728 6 Machine Drawing 824 16	2	
SOPHOMORE YEAR		
First Semester   Cr. Hrs.   Second Semester   Cr. I	3	
PRE-JUNIOR YEAR		
First Semester Cr. Hrs. Second Semester Cr. 1	Hra.	
Military Training         2         Military Training         2           Chemistry 741         8         Chemistry 742         8           Bookkeeping and Accounting 1027½         6         Bookkeeping and Accounting 1027½         6           Money and Banking         Statistics 1047½         6		
Railroads and Traffic Problems 1049½	١.	
JUNIOR YEAR		
	H	
English Literature 711 2 English Literature 712 2 Modern Language 6 Modern Language 6 A. C. Electricity 868 6 A. C. Laboratory 869 4 Industries and Resources Industries and Resources	2 3 5 1	
of Akron 1057½ 2 of Akron 1058½ 2	}	

Summer Term  Markets, Domestic Commerce 1043½22			
First Semester Cr. Hrs. Second Semester Cr. Hr			
100			
COMMERCE AND ADMINISTRATION (Co-operative)			
1923-1924			
FRESHMAN YEAR			
First Semester         Or. Hrs.         Second Semester         Or. Hrs.           Military Training         2         Military Training         2           Physical Training         2         Physical Training         2           Mathematics 725         6         Mathematics 727         6           Mechanical Drawing 811         4         Mechanical Drawing 822         4           Accounting Recitation         1027½         5         Accounting Recitation           1027½         5         Accounting Laboratory         1         Accounting Laboratory         1           Co-ordination 801         2         Co-ordination 802         2			
Summer Term			
Industrial and Commercial Geography 1019½			
COMMERCE AND ADMINISTRATION (Full Time)			
1923-1924			
SOPHOMORE YEAR			
First Semester Or. Hrs. Second Semester Or. Hrs.  *Military Training 2 *Military Training 2 Physical Training 2 Physical Training 2 Bookkeeping and Accounting 1027 3 counting 1028 3 Economics 1059 3 Economics 1060 3 Modern Language 3 Modern Language 3 History or Government 3 Industries and Resources of Akron 1057 2 Electives 2			
*For men only.			

JUNIOR YEAR				
First Semester Cr. Hrs. English 65	Second Semester Cr. English 66 Business Law 1040 Railroad and Traffic	3		
Psychology 3	Problems 1049	4		
Electives5	Psychology			
Diccorves	Statistics 1047	3		
	Electives			
SENIO	R YEAR			
First Semester Cr. Hrs.	Second Semester Or.	Hrs.		
Government or Sociology 3	Government or Sociology	3		
Accounting Problems and	Accounting Problems and	0		
Cost Accounting 1051 2	Cost Accounting 1052	z		
Foreign Commerce 1053 2	Business and Industrial	0		
Electives 6	ProblemsBusiness Administration	2 2		
Thesis 2	Thesis			
	Thesis	L		
SECRETARIAL COURSE (Full Time) 1923-1924				
	ORE YEAR			
First Semester Cr. Hrs.	Second Semester Cr. *Military Training	Hrs.		
*Military Training	Physical Training	9		
Physical Training         2           Bookkeeping and Accounting         3           Economics         1059	Physical Training Bookkeeping and Ac-	٠.		
counting 1027	counting 1028	3		
Factories 1050	Economics 1060	3		
English	English			
Spanish 4	Spanish			
JUNIOR YEAR				
First Semester Cr. Hrs. English 65	Second Semester Cr. English 66	Hrs.		
History or Government 3	History or Government	3		
Index and Filing 1031 3	Business Correspondence	J		
Parahalagy 3	and Secretarial Prac-			
Psychology 3 Spanish 3	tice 1033	3		
Elective	Psychology	3		
Diecerve	Spanish	3		
	Elective			
SENIO	R YEAR			
	Second Semester Cr.	Нга.		
First Semester Cr. Hrs. Business Finance 1035 3	Business Administration			
Office Practice 1041 3	1037	3		
History or Government 3	Office Practice 1042	3		
Sociology3	History or Government	3		
Thesis 2	Sociology	3		
Elective4	Business Law 1040	3		
	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
Mathematics	725-736
Economics	
Chemistry	
Biology	771-779
Physics and Mechanics	780-790
Engineering Subjects	
Commerce Subjects 1	001-1099

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

#### 711. 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.

712. Continuation of 711.

### 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.

- 14. Continuation of 713.
- 7\5. Continuation of 714.
- 71a Continuation of 715.

#### MATHEMATICS

#### 725. College Algebra.

A thorough review of elementary algebra, exponents, radicals, quadratics, simultaneous equations, progressions, ratio, proportion and variations, 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.

#### 730. Calculus.

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

731. Continuation of 730. 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. 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.

#### **ECONOMICS**

#### 737. Economics.

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

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738. Continuation of 737. 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. 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 dynamic, structural, and economic geology. The relation of geology to the engineer and his work is kept constantly in mind. The class room work is supplemented by an excellent collection of Ward's minerals, rocks, Coals, etc., and by several inspection trips. Text: Ries and Watson.

#### **PHYSICS**

#### 781. Elementary Mechanics.

A short survey of the field of mechanics, and an intensive study of systems of parallel forces and simple machines. The student is given a working concept of the principle of moments and its application to engineering problems. Five exercises per week, two recitations and two laboratory periods. Required of all freshmen. 782. 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. Continuation of 783 covering sound and light, with some work in heat. Required of all sophomores.

#### **ENGINEERING**

#### 801. Co-ordination.

The course covers the preparation by the student of reports on outside work with special reference to points of interest, and the selection and tabulation of observed or suggested data which will be valuable as reference during the student's college work and after he graduates.

Mechanical engineering students study brief texts on machine shop tools and methods, foundry practice, factory layouts and maintenance, and production.

Civils, electricals, and commerce students likewise study materials, tools, and specific projects pertaining to their respective fields.

- 802. Continuation of 801.
- 803. Continuation of 802.
- 804. Continuation of 803.
- 805. Continuation of 804.
- 806. Continuation of 805.

#### 807. Elementary Engineering Laboratory.

The course is divided among the civil, electrical, and mechanical laboratories. Its purpose is to give the student a general knowledge of the character of the work in each department and better enable him to choose his particular field. The student is taught the proper form of laboratory reports and is required to perform simple laboratory exercises.

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. Text: Tracy's Plane Surveying: Prerequisite, 807.

#### 811. Elementary Engineering Drawing.

Freehand sketching, lettering and mechanical drawing. The solution of carefully graded problems with special emphasis on the fundamental requirements of a good drawing.

# 812. Descriptive Geometry.

A study of the science of graphic representation with problems on points, lines, planes, surfaces, and solids with practical applications.

#### 817. Materials Laboratory.

Compressive, tensile, and torsion tests of steel. Computation of modulus of elasticity. Tests of wood, brick, rubber, riveted joints, beams, and columns. A 100,000 pounds Riehle Tension Machine and a 60,000 inch-pound Riehle Torsion Machine, with many attachments, are used for most of these tests. Prerequisite, 837.

#### 822. Projection Drawing.

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

#### 823. Machine Drawing.

The drawing of machine parts including both detail and assembly drawing. Technical sketching. Modern drafting room practice.

#### 824. Machine Drawing.

A special course for Industrial Engineers similar to 823.

#### 837. Strength of Materials.

Tensile, compressive, and shearing stresses; riveted joints; torsion. A study of moments and stresses in various beams and resulting deflections. Columns are investigated by various formulas. Text: Boyd. Prerequisites, Elementary Mechanics and Calculus.

#### 842. Analytic Mechanics.

Statics: Composition and resolution of forces, study of center of gravity, friction, and moment of inertia.

Kinetics: Rectilinear and curvilinear motion, work and energy. Text: Poorman. Prerequisite, Elementary Mechanics, Calculus and Physics.

#### 844. Mechanism.

A study of the various means of transmitting and modifying machine motions. The determination of the relative displacement, velocity, and acceleration of different machine parts.

#### 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.

# 847. Elementary Steam Power Plants.

The course includes a study of boilers and engines from a descriptive standpoint. Its purpose is to familiarize the student with the various parts of a steam power plant and enable him to grasp the theory and design involved in succeeding courses.

#### 848. Continuation of 847.

#### 849. Hydraulics.

The course combines lecture and laboratory work and includes the demonstration of some of the fundamental hydraulic laws on which the theory and design of hydraulic machinery are based.

#### 850. Hydraulic Machinery.

The course includes a study of the theory and design of impulse and reaction turbines, centrifugal pumps, and the auxiliary hydraulic apparatus used in hydro-power plants.

#### 851. Roofs and Bridges.

Calculation of stresses in several types of roof trusses for dead, snow, and wind loads. Calculations are made analytically and checked by graphics.

Stresses are calculated for several bridge trusses under dead and live loads. Text: Merriman & Jacoby's Stresses.

#### 853. Railroads.

An intensive course in railroad construction and surveying. Includes field and office work in simple compound, and spiral curves. Prerequisite, 810.

#### 855. Highways.

Study and design of all hard surface roads as well as earth roads; a study of street design and city paving. Traffic is studied by means of a traffic census. Road materials are tested. Text: Baker.

# 858. Advanced Engineering Laboratory.

The course includes experiments demonstrating some of the laws applying to the thermodynamics of steam engines and turbines with special reference to thermal efficiency, Rankine efficiency, efficiency ratio, the influence of the condenser on steam consumption, etc.

859. Continuation of 858. The course includes the study of the design and theory of gasoline engines, gas engines, gas producers, and calorimeters. Experiments are conducted in the gas engineering laboratory to determine the fuel consumption of the various types of engines studied.

#### 861. Cement Testing.

Theory and manufacture of cement; standard laboratory tests of cement, mortar, and concrete; experimental investigations. A trip to a cement plant is usually arranged where the actual manufacture of cement is studied.

#### 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, motors, instruments, and transformers; industrial applications of alternating current machinery.

#### 869. Direct Current Laboratory.

This course includes some elementary exercises in electricity and magnetism and various practical tests on direct current machines, supplementing theoretical work given in 867.

#### 870. Alternating Current Laboratory.

This course includes elementary experimental study of alternating current circuits, and various practical tests on alternating current machines supplementing theoretical work given in 868.

#### 871. Thermodynamics.

The course is designed to present the principles of thermodynamics relating to heat engines. It deals primarily with the transformation of heat energy into mechanical energy.

872. Continuation of 871. It presents some of the advanced theory of thermodynamics, and applies it to steam engines, steam turbines, air engines, refrigerating plants, etc.

#### 873. Reinforced Concrete.

Theory of reinforced concrete. Analysis of the stresses which take place in rectangular beams, T beams, and columns. Practice in designing simple floor systems and columns. A working knowledge of the principles of mechanics is necessary. Text: Taylor & Thompson.

# 874. Steel Design.

Theory of steel design, graphic and algebraic computation of stresses.

Design of steel structures including roof truss, plate girder bridge, and truss bridge, with detailed drawings of principal connections. Text: Kirkham.

# 875. Steam Power Plant Design.

The course includes the fundamental requisites for the design of steam power plants. It covers the proportioning of boilers, grates, furnaces, stacks, superheaters, economizers, heaters, and condensers for a plant of a given capacity.

# 876. Steam Power Plant Inspection.

The course is devoted to tours of inspection to various steam power plants in the vicinity. Each trip is devoted to the inspection and study of a definite part of the plant and the proportions are checked by methods studied.

### 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.

The course is devoted to the solution of practical problems assigned to individual students. These problems are varied and are selected to present to the student the general nature of the work he will meet upon entering the ranks of the engineering profession.

# 879. Concrete Design.

Practice in designing various kinds of concrete structures, such as beams and girders and flat slab floor systems, beam bridges and arch bridges, footings, retaining walls and chimneys. The course is a continuation of 873. Text: Taylor and Thompson.

### 881. Sewerage.

Part I. Sewer Design. After some class room study and discussion, each student is required to design a complete sewer system for some district in Akron, or for an adjoining town.

PART II. Sewage Disposal. This consists of a comparative study of the various types of sewage treatment plants and several plants are visited. Text: Folwell or Metcalf & Eddy. Prerequisite, Hydraulics.

### 882. Water Supply.

After a review of formulae, methods, and practice, each student is required to design a complete water system for a portion of Akron or a nearby town. An inspection trip to Akron Pumping Station and Treatment Plant at Kent is arranged once a year. Text: Folwell. Prerequisite, Hydraulics.

### 883. Engineering Design.

Special problems in design. This course gives the student an opportunity to do extra work along the particular line in which he wishes to specialize.

884. Continuation of 883.

# 891. Advanced Electrical Theory.

Continuation of course 868. More thorough study of the construction and operating characteristics of electrical machines and appliances. The course includes a large number of problems.

893. Continuation of 891.

894. Continuation of 893.

#### 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.

Typical electric power stations and sub-stations, station locations, general arrangement of prime-movers and auxiliary apparatus, selection of generating units, station wiring, switchboards and protective devices. The course also includes inspection trips to power plants and sub-stations in this vicinity.

# 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.

# 899. Special Electrical Problems.

Solution of special problems in electrical engineering; design of electrical machinery.

900. Continuation of 899.

# 901. Advanced Electrical Laboratory.

Continuation of 870.

903. Continuation of 901.

904. Continuation of 903.

905. Continuation of 894.

#### COMMERCE AND ADMINISTRATION

# Industrial and Commercial Geography.

1019. Full time.

10191. 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; centers of great industry, transportation, communication; relation of government to industry and trade.

# 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 restrictions; 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.

# 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.

1029\frac1. 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.

10311. 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 materials; 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.

10331 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.

 $1035\frac{1}{2}$ . 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.

1037. Half time.

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

### Elementary Law.

1039. Full time.

1039\frac{1}{2}. Half time.

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

#### Business Law.

1040. Full time.

 $1040\frac{1}{2}$ . 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.

10411. 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.

 $1043\frac{1}{2}$ . Half time.

Development of the early types of markets; early trade routes; fairs, location of colonial marketing centers; development of modern markets and the factors affecting their development; advertising and sales systems; cooperation, its development and importance; the middleman, his functions and problems; the retailer, the consumer, and modern problems of the buyer and seller.

### Money and Banking.

1045. Full time.

 $1045\frac{1}{2}$ . 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; 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.

 $1047\frac{1}{2}$ . 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.

 $1049\frac{1}{2}$ . 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.

10511. 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; volume and character of imports and exports; governmental regulation, consular service, commercial methods and regulation.

lations for trade; aids to the development of trade, position of the United States in the commercial world and our future needs.

#### Business and Industrial Problems.

1055. Full time.

 $1055\frac{1}{2}$ . Half time.

A study of economical and industrial problems of importance to the business man; the business cycle; 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.

10571. 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.

 $1059\frac{1}{2}$ . Half time.

Purpose and scope of economics, 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, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigation.

1060. Continuation of 1058.

# 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 32.

# Entrance Requirements

English3	units
Mathematics21/	units
*Foreign Language2	units
History1	
†Physics1	
Elective51/2	units

# Course of Study

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

<sup>\*</sup>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.

tural 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.

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

§24 semester hours of Science, 38 semester hours of purely Home Economics, and 33 semester hours required minors.

#### FIRST YEAR

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

#### SECOND YEAR

Chemistry 353	4	Chemistry 354	4
†Physiology 409		†Physiology 410	3
*Modern Language	3	*Modern Language	3
Art 625		House Planning 626	
English 65, 69 or 75	3	English 66, 70 or 76	3
Drafting & Designing 607	1	Sewing 608	1
Child Hygiene 611		Home Nursing 612	3
	19		19

<sup>\*</sup>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: 38 hours from the above. Minors: English 6; Language 6; History 6; Public Speaking 3; Psychology 6; Sociology 6.

#### THIRD YEAR

Nutrition 619	3	Nutrition 620	3
or Chemistry 621	4	or Chemistry 622	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
• .		Clothing: Care, Cost 610	2
	_		
17 or	18	10 or	20

# FOURTH YEAR

Dietetics 613	3 4 3 3	Seminar 618 Sociology 214 Bacteriology 420 Psychology 202 Table and Meal Service 632 History of Art 628	3 4 3
	_		
	19		16

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

# 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 obtained 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 \$18.00 per semester will be charged to all students. The tuition in this school is free to all residents of Akron. The tuition for non-residents of Akron is \$90.00 per semester. A graduation fee of five dollars is charged all graduates.

<sup>‡</sup>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 re-
turned at the end of the semester.
Biology 401, 402\$2.50
Bacteriology, per semester
Bacteriology, deposit for breakage 5.00
Foods, per semester 7.50
Dietetics, per semester 7.50
Table and Meal Service, per semester 6.00
Housewives Class, per semester

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

#### SUBJECTS OF INSTRUCTION

All courses numbered over 600 are offered primarily only for students of 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 52-87 of general catalog.

#### HOME ECONOMICS

PROFESSOR STIMMEL MISS STINSON

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

Two hours each semester. One lecture and one laboratory period.

A study of fibers 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.

# 610. Clothing: Care and Cost.—(Second Semester.) Two hours.

A study of individual fibers, weaves, the economical purchasing of materials, chemistry of textiles, laundry, removal of stains, and the effects of dyes on fiber and weave.

# 611. Child Hygiene.—(First Semester.)

Three hours. Two recitations and one laboratory period.

The principles relating to the hygiene of physical and mental development. The laboratory work is done with the Associated Charities of the city.

# 612. Home Nursing.—(Second Semester.)

Three credit hours.

Deals with home nursing as distinct from the more elaborate technic of hospital nursing. A training toward obtaining a better, more intelligent motherhood.

### 605 and 606. Foods.—(Both Semesters.)

Four hours each semester. Two lectures and three laboratory periods.

Prerequisite, Chemistry 353-354. 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.

### 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.

#### Housewives' Class.—(First Semester.)

One hour. (1:00-4:00 P. M.)

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

### Housewives' Class.—(Second Semester.)

Two hours. (1:00-7:00 P. M.) Same as Table and Meal Service 632.

### 613. Dietetics.—(First Semester.)

Four hours. Two recitations and two laboratory periods.

Prerequisite, Foods, 605-6, Physiology 407-8, Household Chemistry 621-2, or Nutrition 619 and 620. 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, 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.

# 608. Sewing.—(Second Semester.) One hour.

The making of all fancy stitches as applied to children's clothing.

# 627 and 628. History of Art.—(Both Semesters.)

Two hours each semester.

A study of the history of foreign art, the first semester; the history of American Art, the second semester. One semester's work may be taken with credit, without necessarily completing the year's work.

- 601. Principles of Art.—(First Semester.) Two hours.

  Same as Art 1251, Teachers College.
- 602. **Designing.—(Second Semester.)** Two hours. Same as Designing 1252, Teachers College.
- 618. Seminar.—Second Semester.) Two hours. Open only to seniors.
- 625. Art.—(First Semester.) Two hours.

Problems in interior decoration and costume designing.

Same as Art 1253, Teachers College.

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- 626. **House Planning.—(Second Semester.)** Two hours. Same as House Planning 1254. Teachers College.
- 632. Table and Meal Service.—(Second Semester.)
  Two hours.

Setting of table. Table decorations. Planning, buying and serving of balanced meals. Computing cost of serving 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 hour.
- 619 and 620. **Nutrition.—(Both Semesters.)** Three hours. Recitation.—Study of chemistry of foods and the processes of nutrition.

#### ENGLISH

Courses: 51, 52, 65, 66, 69, 70, 75, 76. (See Buchtel College of Liberal Arts.)

#### **GERMAN**

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

#### FRENCH

\*Courses: 151, 152, 153, 154.

#### SPANISH

\*Courses: 171, 172, 173, 174.

# PHILOSOPHY AND SOCIOLOGY

\*Courses: 213, 214, 201, 202.

### HISTORY

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

<sup>\*</sup>See Buchtel College of Liberal Arts.

#### CHEMISTRY

\*Courses: 353, 354.

621. Organic Chemistry.—(First Semester.)

Four hours. Two recitations and two laboratory

periods

Open to students who have completed courses 353-354 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 requirement for entrance to most medical schools.

622. Household Chemistry.—(Second Semester.)

Four hours. Two recitations and two laboratory periods.

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.

# **BIOLOGY**

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

#### **PHYSICS**

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

Four hours each semester. Two recitations and two

laboratory periods per week.

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

### PUBLIC SPEAKING

At least three hours are required.

<sup>\*</sup>See Buchtel College of Liberal Arts.

# 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 fouryear period of training offers opportunity for a wider and more thorough preparation than two or three-year 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 \$1,000. Those who finish the three-year course will begin at a salary of \$1,200 while those who finish the four-year course will begin at \$1,400 with a maximum of \$2,700. Those who complete the five-year course will begin at \$1,500.

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 bring teacher training into closer contact with the 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

(To take effect with class entering September, 1923)

Tuition at the University of Akron shall be free to all students whose parents are actual residents of the city of Akron.

Any student whose parents are not residents of Akron must pay tuition unless he is twenty-one years of age and

has resided in Akron at least one year immediately preceding his enrollment in the University; no person shall be considered to have gained a residence in this city for the purpose of securing free tuition while he is a student in the University.

The residence of minors shall follow that of the parents, or legal guardian if parents be deceased.

Aliens who have taken out their first citizenship papers and who have been residents of Akron for twelve months next preceding the date of their enrollment in the University shall be regarded as eligible for registration as residents of Akron. Each student must pay an incidental fee of \$18.00 per semester, covering registration, incidentals and student activity fee. If not paid before October 1 of the first semester, or February 18 of the second semester the fee is \$20.50 per semester. Fees to cover breakage in laboratory courses are also charged.

#### Non-Resident Students

The tuition for non-resident students is \$90.00 per semester in addition to the incidental fee of \$18.00 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 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 twenty-one 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:

English3	units
Mathematics (Algebra 1, P. Geometry 1)2	units
*Foreign Language (4 recommended)2	units
History1	unit
Science1	

<sup>\*</sup>Four units required of students desiring to major in foreign language.

#### REGISTRATION

The registration days for the beginning of the school year 1923-1924 will be September 14 and 15 for new students and September 17 and 18 for upper classmen, for the second semester, January 25-26. 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 Evening Session see page 164.

#### COURSES OF STUDY AND DEGREES

Teachers College offers eight 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 elementary critic, under the regular plan, supervises three student teachers. Each high school critic supervises but one student teacher. 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 Semester (English 51	Or. Hrs.	Second Semester Cr. Hrs. English 52
Political Science 261		General Psychology 1102 4
		General History of
Music	11/2	Education 1130 3
Physical Education 1353.	1	Music 11/2
Freshman Lectures	1/2	Physical Education 1354 1
Mathematics or	, -	Current Events 290 1
*Foreign Language	4	Mathematics or
		*Foreign Language 4
	17	
		171/2

# SECOND YEAR

	Second Semester Cr. Hrs. Biology 402 4
Educational Psychology	Educational Psychology
1103 3	1104 3
Art 1251 2	Public School Music 1231 3
History of Education in	Educational Measurements
the United States 1131 3	1134 2
Story Telling 89 3	Principles of Teaching (1
Speech 91 3	hr. of Observation) 1210 3
	Story Telling 90 3
18	18

#### THIRD YEAR

Play Materials 1305       2         Songs and Games 1309       2         Art 1311       2         Handwork 1307       2         Child Psychology 1105       3         Piano 1315       1	Second Semester Cr. Hrs. Practice Teaching 1301 4 Practice Teaching (First or Second Grade) 1213A 4 Kindergarten Methods 1303
History of Kindergarten Philosophy 1313	Piano 1316 1
17	17

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

<sup>\*</sup>Must be a continuation of some course pursued in High School.

# FOUR YEAR COURSE

# FIRST YEAR

First Semester	Cr. IIrs.	· Second Semester Cr. Hrs.
English 51	3	English 52 3
Political Science 261	4	General Psychology 1102 4
Personal Hygiene 1172.	3	General History of
Music	1½	Education 1130 3
Physical Education 135	3 1	Music 1½
Freshman Lectures	1/2	Physical Education 1134 1
Mathematics or		Current Events 290 1
*Foreign Language	4	Mathematics or
		*Foreign Language 4
	_	_
	17	$17\frac{1}{2}$

# SECOND YEAR

First Semester	Cr. Hrs.	Second Semester Cr. Hrs.
Biology 401	4	Biology 402 4
English Literature 65	3	English Literature 66 3
Educational Psychology		Educational Psychology
1103		1104 3
Story Telling 89	3	Story Telling 90 3
Speech 91	3	Community and Civic
-		Ideals 1174 3
	16	16

# THIRD YEAR

First Semester Cr. Hrs.	Second Semester Cr. Hrs.
American Literature 753	American Literature 76 3
Sociology 213 3	Sociology 214 3
History of Education in	Educational Measurements
the United States 1131 3	1134 2
Introduction to Scientific	Principles of Teaching (1
Study of Education	hr. of Observation) 1210 3
1133A 2	Introduction to Scientific
Art 1251 2	Study of Education
Psychology of Learning	1133B 2
1112 3	Public School Music 1231 3
	<u> </u>
16	16

<sup>\*</sup>Must be a continuation of some course pursued in High School.

FOU	RTH YEAR
First Semester Cr. I	Irs. Second Semester Cr. Hrs.
Play Materials 1305 2	Practice Teaching 1301 4
Songs and Games 1309 2	Practice Teaching (First
Art 1311 2	or Second Grade) 1213A 4
Handwork 1307 2	Kindergarten Methods
Child Psychology 1105 3	1303 4
Piano 1315 1	Primary Methods 1216 4
History of Kindergarten	Piano 1316 1
Philosophy 1313 2	
Primary Methods 1218 3	
_	
17	17
198 hours required	Rachalor of Education degree

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

# COURSES FOR ELEMENTARY TEACHERS

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

# THREE YEAR COURSE

FIRST	YEAK
First Semester Cr. Hrs. English 51 3	Second Semester Cr. Hrs. English 52
Political Science 261 4	General Psychology 1102 4
Personal Hygiene 1172 3	General History of
Music 1½	Education 1130 3
Physical Education 1353 1	Music 1½
Freshman Lectures 1/2	Physical Education 1134 1
Mathematics or	Current Events 290 1
*Foreign Language 4	Mathematics or
	*Foreign Language 4
_	
17	17½
SECON	D YEAR
First Semester Cr. Hrs.	Second Semester Cr. Hrs.
Biology 4014	Biology 402 4
Educational Psychology	Educational Psychology
1103 3	1104 3
Art 1251 2	Public School Music 1231 3
Story Telling 89 3	Principles of Teaching (1
Observation 1203 2	hr. of Observation) 1210 3
**Arithmetic and Methods	**Geography and Methods
1225 2	1223 2
**Language and Methods	**History and Methods
12392	1240 2
_	-
18	17

<sup>\*</sup>Must be a continuation of some language pursued in High

School.

\*\*Those preparing to become primary teachers will take Primary
Methods instead.

# THIRD YEAR

First Semester Cr. Hrs. Practice Teaching 1213B 8	Second Semester Cr. Hrs. History of Education in
School Management 1241A 3	United States 1131 2
Special Methods 1246A 3	Educational Measurements
Educational Problems 1211 2	1134 2
	Community and Civic
•	Ideals 1174 3
	Art 1252 2
	Speech 91 3
	Word Study 68 3
·	
16	. 15

Total of 96 hours required.

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

# FOUR YEAR COURSE

# FIRST YEAR

First Semester Cr. Hrs. English 51	Second Semester Cr. Hrs. English 52
	Education 1130 3 Music
Freshman Lectures	Physical Education 1354 1 Current Events 290 1
*Foreign Language 4	Mathematics or *Foreign Language 4
17	101/
17	171/2

#### SECOND YEAR

First Semester Cr. Hrs. Biology 401 4	Second Semester Cr. Hrs. Biology 402 4
English Literature 65 3	English Literature 66 3
Educational Psychology	Educational Psychology
1103 3	1104 3
Story Telling 89 3	Community and Civic
Art 1251 2	Ideals 1174 3
History of Education in	Speech 91 3
the United States 1131 3	Art 1252 2
-	
18	. 18

<sup>\*</sup>Must be a continuation of some language pursued in High School.

#### THIRD YEAR

	Second Semester Cr. Hrs.
American Literature 753	American Literature 76 3
Sociology 213 3	Sociology 214 3
Introduction to Scientific	Introduction to Scientific
Study of Education	Study of Education
1132Å 2	1132B 2
Observation 1203 2	Public School Music 1231 3
**Arithmetic and Methods 2	Principles of Teaching (1
**Language and Methods	hr. of Observation) 1210 3
1225 2	**History and Methods
Psychology of Learning	1223 2
1239 3	**Geography and Methods
	1240 2
17	18

#### FOURTH YEAR

First Semester Cr.	Hrs.	Second Semester Cr.	Hrs.
Practice Teaching 1213B	8	Educational Measurements	
School Management 1241A	3	1134	2
Special Methods 1246A	3	Art 1254	2
Educational Problems 1211	2	Educational Sociology 1180	3
		Electives	9
-		_	_
1	16	1	16

This course leads to the degree of Bachelor of Education. At least 128 hours are required for graduation.

# 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.

<sup>\*\*</sup>Those preparing to be primary teachers will take Primary Methods instead.

<del>-</del>

FIRST YEAR		
First Semester Cr. Hrs. Chemistry 353	Second Semester         Cr. Hrs.           Chemistry 354         4           English 52         3           Modern Language         3 or 4           Textiles 604         2           Art 1252         2           Physical Education 1354         1           15 or 16	
	D YEAR	
First Semester         Cr. Hrs.           Organic Chemistry 621	Second Semester         Cr. Hrs.           Household Chemistry 622         4           Biology 402         4           Modern Language         3           General Psychology 1102         4           Art 1254         2	
18	18	
THIRI	O YEAR	
First Semester Cr. Hrs. English 65 or 75	Second Semester   Cr. Hrs.	
FOURT	H YEAR	
First Semester         Cr. Hrs.           Dietetics 613         4           Art 1253         2           Bacteriology and Sanitation 419         3           Educational Psychology 1103         3           History of Education in the United States 1131         3           Introduction to the Scientific Study of Education 1133A         2	Second Semester   Cr. Hrs.	

17

# FIFTH YEAR

First Semester	Cr. Hrs.	Second	Semester	Cr. Hrs.
Electives approved sufficient to total		School Ma Special Me Educationa		241C 3 3 1211
		01,		16

# COURSE FOR TEACHERS OF SHOP SUBJECTS FOUR YEAR COURSE

# FIRST YEAR

First Semester	Cr. Hrs.	Second Semeste	r Cr. Hrs.
English 51 Personal Hygiene 1173	33	English 52	у 1102 4
Physical Education 13 Freshman Lectures		Physical Educatio Current Events 29	
College Algebra 302 .	4	Trigonometry 301.	4
Hist. of Education in		Principles of Art	
Practical Arts 1401 Woodworking 1403		Woodworking 140	4 3
	_		_
	161/9		18

# SECOND YEAR

First Semester Cr	Hrs.	Second Semester Cr. Hrs.
Biology 401	4	Biology 402 4
English	3	English 3
Educational Psychology		Educational Psychology
1103	. 3	11043
Metal Working 1405	. 3	Metal Working 14063
Methods in Shop Subjects		Methods in Shop Subjects
1407	. 2	1408 2
Mechanical Drawing 1409	. 2	Mechanical Drawing 1410 2
	_	<del></del>
	17	17

#### THIRD YEAR

Physics 331 Sociology 213 Introduction to Scientific Study of Education 1133A Principles of Economics 251 Psychology of Shop Sub-	4 3 2 3	Second Semester   Cr. Hrs.
pects 1411Printing 1413		
-	<u> </u>	18

#### FOURTH YEAR

# 0 0 10 Z Z Z =				
First Semester Cr. I General History of Edu-	Hrs.	Second Semester Cr. Practice Teaching 1213E	Hrs. 8	
cation 1130 2	;	Special Shop Methods		
Psychology of Adolescence		1246D	3	
1107 2	;	School Management 1241D	3	
Administration of Voca-		Educational Problems 1211		
tional Education 1415 2	,	or 1212	2	
Electrical Shop 14174				
House Planning 2				
Field Project Suitable to				
Major Subject 4				
	-		_	
16		1	6	

This course leads to the Bachelor of Education degree and appointment in the Akron Public Schools.

In addition to 128 hours required for graduation each student must have eight months of trade experience in the subject selected as major. This trade experience must be approved by the Dean of the School and may be secured during the summer vacations.

# PHYSICAL EDUCATION FOUR YEAR COURSE FIRST YEAR

First Samester	Or Hrs	Second Semester Cr. Hrs.
English 51		English 52 3
Personal Hygiene 1172.	3	Folk Games 1352 2
Political Science 261		Political Science 262 4
History of Education	in	General Psychology 1102 4
the United States 113		Physical Education 1354 1
Physical Education 135		History of Physical Edu-
First Aid 1351		cation 1358 2
	16	16

# SECOND YEAR

First	Semester	Cr. Hrs.	Second Semester Cr. Hrs.
English Educatio 1103 Physical Play and Diagnosis	nal Psychology  Education 135. Playground 135s and Correctionsical Defects 135	3 5 1 57 2	Biology 402

# THIRD YEAR

First Semester	Cr.	Hrs.	Second	Semester	Cr.	Hrs.
Sociology 213		3	Sociology	214		3
Human Physiology		4	Human Ph	ysiology		4
Introduction to Scientific				of Teaching (		
Study of Education				vation) 1210.		
1133Å		2		n to Scientif		
Psychology of Learning			Study of	Education		
1112		3				2
Sports Technique 1361		1	Sports Tec	hnique 1362.		1
Organization and Direction	on		Organizatio	on and Direc	tion	
of Play 1363		2	of Play 1	364		2
Principles of Coaching			Principles	of Coaching		
Basketball 1365		1	Baseball	1366		1
	_	_			_	_
	1	6			1	6

#### FOURTH YEAR

First Semester	Cr. Hrs.	Second	Semester	Cr.	Hrs
Psychology of Adolese 1107	2 rsical 2	Special Me Educatio School Ma	thods in P n 1370 nagement	hysical 1372	3 <b>3</b>
Football 1369 Electives		Educationa	l Problems	1374	2
				-	
	16			1	G

This course leads to the Bachelor of Education degree and appointment in the Akron Public Schools.

#### 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. All who plan to become high school teachers should consult the Dean of the Teachers College before selecting their majors. Certain majors lead to better recognition in the public schools. Students should be careful to elect such courses in Teachers College the first four years as are approved by the Dean or Head of the Department of Education.

#### MAJORS LEADING TO THE A. B. DEGREE

- 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 30 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 Semester Cr. Hrs Electives sufficient to total 160 hours, to be ap-	
proved by the Dean.	1241B
1	Educational Problems
	<del></del> 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	
Kindergarten Training	1300-1350
Physical Education	1351-1400
Industrial and Vocational Education	1400-1450

Other subjects are numbered as in the general catalog. Courses starred are described in the Bulletin of Evening Session.

#### 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, openmindedness, changing concepts, pitfalls of reasoning, personality, imagery, character, work saved from drudgery, 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.

# 1112. The Psychology of Learning.—(First 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.

# 1130. General History of Education.—(Second 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-A. 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.

# 1133-B. Introduction to the Scientific Study of Education.—(Second Semester.) Two hours.

Continuation of Course 1133-A.

# 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. Laboratory fee—\$2.00 per semester.

# \*1135. Educational Measurements.—(First Semester.)

Two hours.

1172. Personal Hygiene.—(First Semester.) Two hours. The aim of this course is to give a scientific background for the various health activities of the school and the community. The relationship existing between the biological, the physical and the psychical factors in our lives, the causes and prevention of disease, problems in mental hygiene, social hygiene, eugenics, and sex education, from both school and social standpoint will be investigated. Not open to students having credit for Course 1171.

\*1180. Educational Sociology.—(Second Semester.)

#### METHODS AND TEACHING

DEAN BANKES, PROFESSOR HAYES, ASSISTANT SUPERINTENDENT MCELROY, MISS HOOVER, MISS GLOVER, MR. WATERHOUSE

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. Required of all students preparing for high school teaching.

- \*1202. Modern Elementary School Practice.—(Second Semester.) Two hours.
- 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. Educational Problems.—(Both Semesters.) Two

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

1212. Educational Problems.—(Second Semester.) Two hours.

For those training to become high school teachers.

1246-A. Special Methods. Three hours.

A course of methods in planning and teaching elementary subjects. Needs of the student while practice teaching form the basis for instruction.

1246-B. Special Methods. Three hours.

For those training to become high school teachers.

1246-C. Special Methods. Three hours.

For those training to become home economics teachers.

1246-D. Special Methods. Three hours.

For those training to become shop teachers.

1246-E. Special Methods. Three hours.

For those training to become physical training teachers.

1216. Primary Methods.—(Both Semesters.) Four 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.
- 1225. Arithmetic and Methods.—(First Semester.) Two

Methods and devices for teaching arithmetic; its place in the curriculum for the various grades.

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.

1239. Language and Methods.—(First Semester.) Two

A discussion of the best methods of teaching English in the grades, and also investigation of various methods used in supervising study. In detail, the course will include a study of the methods of teaching literature, oral and written composition, pictures as an aid to composition, and sources of material for composition. A special feature of the course will be to give practice in teaching sentence structure as an important phase of all

oral or written expression. The course will include a great deal of reading in connection with projects to be worked out in literature.

## 1241-A. School Management. Three hours.

Practical management of classes in the elementary schools under the direction of the critic teacher as received in connection with practice teaching. Discussions and readings. For those training to become elementary teachers.

### 1241-B. School Management. Three hours.

For those training to become high school teachers.

## 1241-C. School Management. Three hours.

For those training to become home economics teachers.

## 1241-D. School Management. Three hours.

For those training to become shop teachers.

### 1241-E. School Management. Three hours.

For those training to become physical training teachers.

### 1213-A. Practice Teaching. Four hours.

Students preparing to do primary teaching will teach in Akron Primary Schools under conditions as they actually exist in the school room.

### 1213-B. Practice Teaching. Eight hours.

For those training to become elementary teachers.

### 1213-C. Practice Teaching. Eight hours.

For those training to become high school teachers.

### 1213-D. Practice Teaching. Eight hours.

For those training to become home economics teachers.

## 1213-E. Practice Teaching. Eight hours.

For those training to become shop teachers.

### 1213-F. Practice Teaching. Eight hours.

For those training to become physical training teachers.

1240. History and Methods.—(Second Semester.) Two hours.

The course is designed to give a survey of the subject matter included in the course of study, and also to present methods of teaching the subject-matter. Aims, methods, standards, devices, problems, and projects will be discussed. History is a social study. The individual is the central figure in the social group; therefore it will be the aim to show the influence of environment on the history of a people and also on the individual. It is further the aim of the course to show to what extent correlation may be used in teaching history to enlarge and enrich the child's experience. The keynote of the course is interest and enthusiasm in appealing to the imagination.

- \*1243. Literature for the Grades.—(First Semester.)
  Two hours.
- \*1248. Use of Library.—(Second Semester.) Two hours.
- 1203. **Observation.—(First Semester.)** Two hours. Two hours observation, one hour recitation.

In the Junior year all students preparing to teach in the elementary schools are required to take this course which gives observation in all elementary school activities. The purpose of this course is to orient the students and assist them in selecting the particular positions for which they wish to train.

#### 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.
- 1254. Art. Two credit hours. Four hours per week.

  Advanced work in design and interior decorating.

  Not open to students having credit for 1253.

### 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 TRAINING

MRS. HOWES, MRS. EVANS

1301. Practice Teaching.—(Both Semesters.) Four hours.

Students will teach in the Akron Kindergartens under normal conditions as they exist in the city.

1303. 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. Play Materials in the Education of Young Children.—(First Semester.) Two hours.

Selection and use of play materials such as toys, gymnasium apparatus, building blocks, and Froebelian gifts.

These materials are selected in relation to the developing child in the light of modern educational theory.

### 1307. Handwork.—(First Semester.) Two hours.

This course is intended to prepare the teachers of Kindergarten and First Primary to meet the constructive instinct in the play life of the child by helping him to develop his own projects and make his own toys. The materials used will be clay, paper, wood, cardboard and textiles.

## 1309. Songs and Games.—(First Semester.) Two hours.

For kindergarten and primary teachers.

Dramatic arts, plays, games and dances of early childhood. A study of games will be made from the genetic standpoint, beginning with early childhood activities in which they originate, tracing their development from the informal game into the more highly organized and artistic traditional forms.

The course includes a study of the theories of play, the playing of games and practice in construction of games for children in kindergarten and primary grades.

Types of music used: Band, floor rhythms, music appreciation, and singing of songs suitable for the work.

### 1311. Art.—(First Semester.) Two hours.

As applied to Kindergarten and Primary Grades.

## 1313. History and Philosophy of Kindergarten.—(First Semester.) Two hours.

A study of the early history of the kindergarten movement and the curricula of Froebel, Montessori and other experimenters in the kindergarten field in relation to present day experiments in dealing with the problems of the kindergarten-primary method.

### 1315-16. Piano.—(Both Semesters.) One hour.

This course consists of private lessons in piano with instructor receiving the approval of the Dean.

#### ENGLISH

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

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

This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas clearly, correctly, concisely, and concretely. Attention is devoted particularly to sentence and to paragraph structure. The students write short expository compositions.

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

This course is designed with the same purpose as 51, of which it is a continuation. Attention, however, is given to description, characterization, and narration. The students write compositions that build up to a final long narrative work.

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.

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

A quick survey of Anglo-Saxon and Early English literature, followed by a study of the later literature to the close of the eighteenth century, with special attention to the Elizabethan and Puritan periods. Prerequisite, 51 and 52.

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.

## 66. History of English Literature.—(Second Semester.)

Continuation of 65. A study of the social forces which have shaped the development of English literature since the close of the eighteenth century, and of the expression of these forces in the works of leading writers. Prerequisite, 51 and 52.

## 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 tech-

nique 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.

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

#### HISTORY

## DEAN THOMPSON PROFESSOR STIMMEL

- 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.

### **PHYSICS**

#### PROFESSOR HOUSEHOLDER

- 331. General Physics.—(First Semester.) Four 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 hours. Continuation of 331, covering magnetism, electricity and light.

### BIOLOGY

# PROFESSOR PLOWMAN ASSISTANT-PROFESSOR BUYS 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 courses in this department.

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. 1923-1924 and alternate years. Required in Curtis School. Similar to 407-408, but especially adapted to the needs of college women. Prerequisite, 401-402.

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.

### POLITICAL SCIENCE

PROFESSOR CRECRAFT DR. SHORT

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

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.

This course is repeated the second semester.

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

Emphasis this semester is 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.

### 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, 603-4 and 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. (Same as Art 1254.)

#### SOCIOLOGY

#### PROFESSOR OLIN

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

#### INDUSTRIAL AND VOCATIONAL EDUCATION

R. H. WATERHOUSE

Director of Trade Extension Department, Akron Public Schools

- \*1401. History of Education in Practical Arts.—(First Semester.) Two hours.
- 1403. Woodworking.—(First Semester.) Three hours. Nine hours per week in woodworking shop.

A course in bench work. The work is suited to seventh

grade, eighth grade and high school. After preliminary problems are given the work is made intensive.

- 1404. Woodworking.—(Second Semester.) Three hours. Continuation of Course 1403.
- 1405. **Metal Working.—(First Semester.)** Three hours. Nine hours per week.

A course of regular shop work in metal working with a view to giving a working knowledge of the fundamentals of metal working.

- 1406. Metal Working.—(Second Semester.) Three hours. Continuation of Course 1405.
- 1407. Methods in Shop Subjects.—(First Semester.)
  Two hours.

The main trend of this course is in the direction of the development of general attitudes rather than the development of specific subject methods. Teaching skill must be acquired by the shop teacher if these subjects are to justify themselves as instructional means. Skill in the craft does not vouchsafe an ability to teach the craft any more than skill in mathematics indicates a good teacher. The lectures treat theory and practice, what knowledge is worth while, culture, what is education, discipline, and the ideal teacher.

## 1408. Methods in Shop Subjects.—(Second Semester.) Two hours.

The purpose of this course will be to develop substantial shop practice (1) by observing shop room practice, (2) by testing methods, and (3) by pooling ideas. It is not intended to imply that such a course should tend to standardize practice. Assigned visits will include shops and industries as well as school shops.

## 1409. Mechanical Drawing.—(First Semester.) Two hours.

Four hours per week.

In this course a thorough study of fundamentals of lettering and mechanical drawing is made.

1410. Mechanical Drawing.—(Second Semester.) Two hours.

Continuation of Course 1409 into more advanced work.

- \*1411. Psychology of Shop Subjects I.—(First Semester.) Two hours.
- \*1412. Psychology of Shop Subjects II.—(Second Semester.) Two hours.
- 1413. **Printing.—(First Semester.)** Three hours. Nine hours per week.

A course in printing given in the school print shop.

- 1414. **Printing.—(Second Semester.)** Three hours. Continuation of Course 1413.
- \*1415. Administration of Vocational Education.—(First Semester. Two hours.
- 1417. **Electrical Shop.—(First Semester.)** Four hours. Twelve hours per week.

A course in electrical shop work given in an electrical shop of the public schools.

1419. Field Projects.—(First Semester.) Four hours.

Each student in his senior year will work out a project suitable to his major subject in shop teaching.

### PHYSICAL EDUCATION

1353. Physical Education. — (First Semester.) One credit hour. Two hours per week.

A general course in games and gymnastics suitable to the elementary schools.

1354. Physical Education.—(Second Semester.) One credit hour.

Continuation of Course 1353.

1355. Physical Education. — (First Semester.) One credit hour. Two hours per week.

A general course in games and gymnastics suitable to high school and college students.

1356. Physical Education.—(Second Semester.) One credit hour.

Continuation of Course 1355.

1351. First Aid.—(First Semester.) Two credit hours. Principles and methods of first aid, emphasizing conditions arising from injuries in connection with physical education.

1352. Folk Games.—(Second Semester.) Two credit hours. Eight hours per week.

Lectures on the characteristics and customs of various countries, with their typical folk games. Folk games and dramatic games given as practical work.

1358. History of Physical Education.—(Second Semester.)

A careful study of the history of physical education from early ancient times to the present.

1357. Play and Playground.—(First Semester.) Two credit hours. Four hours per week.

A study of play theories as applied to present day play and playground activities.

1359. Diagnosis and Correction of Physical Defects.—
(Second Semester.) Three credit hours. Six hours per week.

A study of the diagnosis and detection of physical defects and their causes. Practice in diagnosis.

1360. Applied Physical Education.—(Second Semester.)
Two credit hours. Four hours per week.

Application of Course 1359 to corrective gymnastics.

1361. **Sports Technique.—(First Semester.)** One credit hour. Four hours per week.

A course in the strategy and technique of track and playground sports.

1362. Sports Technique. — (Second Semester.) One credit hour. Four hours per week.

A course in the strategy and technique of volley ball, basketball, baseball, soccer, hockey and tennis.

1363. Organization and Direction of Play.—(First Semester.) Two credit hours.

Principles and methods of organization for general physical education activities, stressing platoon school organization, ideals, standards and methods of directing regular play room and gymnasium activities.

1364. Organization and Direction of Physical Education.—(Second Semester.) Two eredit hours. Six hours per week.

Consideration of principles learned in Course 1363 as they may be applied to high school activities.

1365. Principles of Coaching Basketball.—(First Semester.) One eredit hour. Three hours per week.

A careful analysis of rules and direction of basketball.

1366. Principles of Coaching Baseball.—(Second Semester.) One credit hour. Two hours per week.

A careful analysis of rules and direction of baseball.

1367. Administration of Physical Education.—(First Semester.) Two credit hours.

A study of Physical Education and its administration in the light of present day educational philosophy.

1368. Teaching Physical Education.—(Second Semester.) Eight credit hours.

Practice teaching of physical education for a full semester under regular school conditions under the direction of a competent supervisor. Full time teaching required.

1369. Principles of Coaching Football.—(First Semester.) One credit hour. Three hours per week.

A careful analysis of rules and direction of football.

1370. Special Methods in Physical Education.—(Second Semester.) Three credit hours.

Discussions of problems and observation as encountered in practice teaching.

1372. School Management.—(Second Semester.) Three credit hours.

Practical management of classes under the direction of critic teacher as received in connection with practice teaching. Discussion and readings.

1374. Educational Problems.—(Second Semester.) Two credit hours.

Discussion of technique of instruction and problems confronting the instructor of physical education.

### 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.

### COURSES FOR TEACHERS IN SERVICE

The Teachers College will offer evening and Saturday courses during the year 1923-24. These courses of college grade will receive full credit.

## Evening Course Fees

Incidental Fee, payable by all students-

1923 catalog.)

- - 4 credit hours or less ......No charge for tuition
- 5 credit hours or more ......\$9.00 per hour per semester for each hour in excess of four, but in no case to exceed \$90.00 per semester.

#### Laboratory Fees-

Physics	\$2.00 per semester
Foods	3.75 per semester
Table and Meal Service	\$4.00 First semester
Table and Meal Service	\$6.00 Second Semester
Education Measurements	\$2.00 per semester
These fees will be charged to	all students taking eve-

rhese fees will be charged to all students taking evening courses, whether enrolled for day school work or not.

### Saturday Morning Classes

#### Incidental Fee-

Payable by all students not taking r	egula	r da	y work.
2 or 3 credit hours\$	5.00	per	semester
4 credit hours or more	10.00	per	semester

### REGISTRATION

Registration will take place on the following days: For the first semester: Saturday, September 15, 1923, 2:00 to 5:00 and 7:00 to 9:00 P. M. To all registering after this date, 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 26, 1924, 2:00 to 5:00 and 7:00 to 9:00 P. M. Late registration fee will be charged after this date.

Class work for the first semester will begin Wedesday, September 19, 1923, and will close Saturday, February 2, 1924.

Class work for the second semester will begin Monday, February 4, 1924, and will close Saturday, June 13, 1924.

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.

## **EVENING CLASSES** MIDOM CHANGED MOCOA

FIRST SEMESTER 1923-24.				
Tuesday, 7:30-9:30 P. M.				
1102A	General Psychology.			
1103	Educational Psychology I.			
1411	Psychology of Shop Subjects I.			
1110	Abnormal Psychology.			
1134	Educational Measurements I.			
1176	The Auditorium.			
1201	Principles of Instruction in Secondary Education.			
1239	Methods in Teaching Language.			
1309	Songs and Games.			
	Wednesday, 7:30-9:30 P. M.			
1401	History of Education in Practical Arts.			
1161	School Organization.			
89	Story Telling I.			
1229	Methods in High School English.			
1231	Public School Music I.			
1251	Principles of Art.			
1108A	Psychology of the Exceptional Child.			
	Thursday, 7:30-9:30 P. M.			
1172	Personal Hygiene.			
1179	Fundamentals of Biology.			
1173	The Curriculum.			
1248	Use of Library.			

Saturday Morning, 8:00-10:00. Psychology of Adolescence. Story Telling II.

1107

90

1130 General History of Education.

Saturday Morning, 10:00-12:00.
Introduction to Scientific Study of Education.
Psychology of Learning.
Educational Measurements II. 1133A

1112

1135

Primary Methods. 1217

### SECOND SEMESTER 1923-1924

1102B

Tuesday, 7:30-9:30 P. M. General Psychology. Psychology of Shop Subjects. Educational Measurements II. 1412 1135

	THEOTIBING COLLINGE 100
1133B 1199 1225 1244 1201 1180	Introduction to the Scientific Study of Education. The Project. Methods in Arithemetic. Literature for the Primary Grades. Principles of Instruction in Secondary Education. Educational Sociology.
	Wednesday, 7:30-9:30 P. M.
1116 1160 1175 1108B 90 1232 1240	Administration of Vocational Education. School Organization. Corrective and Contructive Physical Training. Psychology of the Exceptional Child. Story Telling II. Public School Music II. Methods in Elementary History.
	Thursday, 7:30-9:30 P. M.
1178 1202 1224 1174	Nature Study.  Modern Elementary School Practice.  Methods in Geography and Science.  Community and Civic Ideals.
	Saturday Morning, 8:00-10:00.
89 1104 1131	Story Telling I. Educational Psychology II. History of Education in the United States.
	Saturday Morning, 10:00-12:00.
1105 1134 1218	Child Psychology. Educational Measurements I. Primary Methods. dition to these courses credit will be given by the

In addition to these courses credit will be given by the Teachers College for any courses offered in the evening session by the Liberal Arts College if such courses are required by Teachers College for the degree in Education.

For description of evening courses see the Evening Session Bulletin or the section given to evening courses in the general University catalog.

For description of work done in Summer School Ses-

sion see the Summer School Bulletin.

For any further information regarding Teachers College address W. J. Bankes, Dean.

## **EVENING SESSION**

1923-1924

The University holds a regular evening session repeating many of the subjects of the day session. Opportunity is offered to teachers and others employed during the day to secure college work for which credit is given on the same basis as for the subjects of the day session. For those who may desire to begin a regular college course it is possible to secure most of the first year subjects in the evening session.

#### ADMISSION

The Evening Session is open:

- 1. To all persons who have completed the course of a first-grade high school.
- 2. To all other persons over twenty-one years of age, subject to the approval of the instructor in charge as to ability and preparation. Candidates for a degree must complete the regular college entrance requirements.

### REGISTRATION

Registration will take place on the following days:

For the first semester:

Saturday, September 15, 1923, 2:00 to 5:00 and 7:00 to 9:00 P. M.

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

For the second semester:

Saturday, January 26, 1924,  $2\!:\!00$  to  $5\!:\!00$  and  $7\!:\!00$  to  $9\!:\!00$  P. M.

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

Class work for the first semester will begin Wednesday, September 19, 1923, and will close February 2, 1924.

Class work for the second semester will begin Monday, February 4, 1924, and will close June 13, 1924.

### CREDIT

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

### **EVENING SESSION FEES**

INCIDENTAL FEE, payable by all students.

<b>2</b>	$\mathbf{or}$	3 cre	dit hou	rs	\$ 5.00	per	semester
4	or	more	$\operatorname{credit}$	hours	\$10.00	per	semester

TUITION FEE, to all non-resident students.

4 credit hours or less......No charge for tuition. 5 credit hours or more ....\$9.00 per hour per semester for each hour in excess of four, but in no case to exceed \$100 per semester.

These fees will be charged to all students taking evening courses, whether enrolled for day work or not.

### SATURDAY MORNING CLASSES

INCIDENTAL FEE, for all students not taking regular day work:

2 or 3 credit hours	\$ 5.00	per	semester
4 credit hours or n	ore 10.00	"	"

### LABORATORY FEES

Educational Measurements	2.00 "	"
Physics	2.00 ''	"
Foods	3.75 ''	"
Table and Meal Service	4.00 first	"
Table and Meal Service	6.00 second	"

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 November 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.

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

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 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 furnish a competent instructor of University rank. University credit will be given for the successful completion of such courses.

## **COURSES FOR 1923-1924**

#### ROMANCE LANGUAGES

PROFESSOR BULGER
ASSISTANT-PROFESSOR REED
MB, TAILLIART
MISS ROGERS

ENTRANCE. (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's work, and they will receive only half credit for the work.

Students presenting two years of a foreign language for entrance will enter the second year.

#### FRENCH

\*First Year French.—(First Semester.) Four credit hours.

Grammar, reading, dictation, conversation. Tuesday and Thursday, 7:30-9:30.

\*First Year French.—(Second Semester.) Four credit hours.

This course is a continuation of the first semester's work. Tuesday and Thursday, 7:30-9:30.

\*Second Year French.—(First Semester.) Two credit hours.

Open to those who have completed First Year French or its equivalent. Grammar and Composition work continued, with reading of modern works. Thursday, 7:30-9:30.

\*Second Year French.—(Second Semester.) Two credit hours.

Continuation of work of First Semester. Thursday, 7:30-9:30.

### SPANISH

\*First Year Spanish.—(First Semester.) Four credit

Grammar, reading, dictation, conversation. Tuesday and Thursday, 7:30-9:30.

\*First Year Spanish.—(Second Semester.) Four credit hours.

This course is a continuation of the first semester's work. Tuesday and Thursday, 7:30-9:30.

\*Second Year Spanish.—(First Semester.) Two credit hours.

Open only to those who have had First Year Spanish or its equivalent. Grammar and composition work continued. Selected texts for reading. Thursday, 7:30-9:30.

\*Second Year Spanish.—(Second Semester.) Two credit hours.

Continuation of the work of the first semester. Thursday, 7:30-9:30.

Beginning German.—A course will be given provided a class of twenty is enrolled.

#### ENGLISH

ASSISTANT-PROFESSOR PEASE MR. HOWE MR. HABRISON MRS. MACKINNON

\*Rhetoric 51.—(First Semester.) Three credit hours.

This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas clearly, correctly, concisely and concretely. Attention is devoted particularly to sentence and to paragraph structure. The students write short expository compositions. Wednesday, 6:30-7:30; Friday, 7:30-9:30.

### \*Rhetoric 52.—(Second Semester.) Three credit hours.

This course is designed with the same purpose as 51, of which it is a continuation. Attention, however, is given to description, characterization, and narration. The students write compositions that build up to a final long narrative work. Wednesday, 6:30-7:30; Friday 7:30-9:30.

## \*The English Novel.—(Both Semesters.) Two credit hours.

A study of the representative elements and the structure of the novel as a general basis for the appreciation of prose fiction. Lectures will be supplemented by the reading and discussion of the greater English novelists from Defoe to the present, with particular emphasis upon present-day currents of fiction. Thursday, 7:30-9:30.

## \*Studies in Comparative Literature.—(Both Semesters.) Two credit hours.

An interpretation of the work of Ibsen, Tolstoy, and Maeterlinck, primarily on the basis of the ethical theory of each. A substantial amount of reading is required. Lectures and class discussions. Wednesday, 7:30-9:30.

## Advanced Story Telling III.—(First Semester.) Two credit hours.

A course for women only. The class is limited to thirty members.

Members are eligible for this course only on condition that they have done the work in Story Telling I and II. The first semester's work will consist of stories, talks, discussions and reports by students. These reports must deal with the particular phase of story telling in which the student chooses to interest herself.

Suggested projects: Stories in Library work; Stories as an aid to Oral English; Stories in Literature in the grades; Indian Stories; Literature of the Northland; Folk thought and customs as found in primitive literature; Writing of Original Stories; Adaptions of written stories for Oral Telling. Thursday, 7:30-9:30.

Advanced Story Telling IV.—(Second Semester.) Two credit hours.

A continuation of the work of the first semester, with a careful study of the text-book, the material of which will be presented by members of the class. Change of project, if desired. Requirements same as in first semester. Thursday, 7:30-9:30.

#### SPEECH

#### MISS McEBRIGHT

\*Elementary Course.—(First Semester.) Two credit hours.

Fundamental principles, voice technique, tone placing, tone building, enunciation, literary analysis, gesture, evolution of expression, vocal and physical. Extempore speeches, critiques, personal development. Tuesday, 7:30-9:30.

\*Elementary Course.—(Second Semester.) Two credit hours.

Continuation of work of First Semester. Tuesday, 7:30-9:30.

\*Advanced Course.—(First Semester.) Two credit hours.

Extempore and impromptu speeches. Literary, dramatic, artistic interpretation; character study, Shakespeare's plays. Development of imagination and sympathetic insight into literature. Thursday, 7:30-9:30.

\*Advanced Course.—(Second Semester.) Two credit hours.

Continuation of work of First Semester. Thursday, 7:30-9:30.

\*Advanced Course.—(Second Semester.) Two credit

Continuation of work of First Semester. Thursday, 7:30-9:30.

#### PHILOSOPHY AND SOCIOLOGY

#### PROFESSOR OLIN

Applied Sociology.—(First Semester.) Two credit hours.

Historical development of society and social groups. Social forces and their action.

Problems of normal society, economic, political and ethical.

Problems of poverty, crime, insanity, feeble-mindedness, degeneracy.

Social incentives.

Principles and methods of progress.

Wednesday, 7:30-9:30.

### Practical Psychology.—(Second Semester.) Two credit hours.

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, 7:30-9:30.

### POLITICAL SCIENCE AND ECONOMICS

#### PROFESSOR CRECRAFT DR. SHORT

## \*American Government and Politics.—(First Semester.) Four credit hours.

This 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. Monday and Wednesday, 7:30-9:30.

## \*American Government and Politics.—(Second Semester.) Four credit hours.

Emphasis, this semester, is laid on state and local government, organization and functions, county and town government and measures securing popular control over same. Monday and Wednesday, 7:30-9:30.

## Corporations and Trust Problems.—(First Semester.) Two credit hours.

The formation, management, and control of industrial combinations and the problems of a political and economic nature which have arisen in consequence. Tuesday, 7:30-9:30

### Labor Problems.—(Second Semester.) Two credit hours.

The development of the labor problem, including the present day political and economic aspects of the same. Tuesday, 7:30-9:30.

### COMMERCE AND ADMINISTRATION

## PROFESSOR McDERMOTT MR. SHARER

Bookkeeping and Accounting.—(Each Semester.) Two credit hours. A 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, 7:30-9:30.

#### HISTORY

#### MR. V. K. SUGAREFF

\*Political and Social History of Europe, 1789-1860.—
(First Semester.) Two credit hours.

A study of political events of the period, revealing the social progress of Western Europe, a resumé of the old regime; the French Revolution, the partitions of Poland, the rise and fall of the Napoleonic Empire, the era of Metternich, reaction, industrial revolution, the revolution of 1848, the Crimean War and the Paris Conference of 1856. Lectures, readings and conferences. Wednesday, 7:30-9:30.

## \*Political and Social History of Europe, 1860-1920.— (Second Semester.) Two credit hours.

A study in the growth of democracy, nationalism and imperialism culminating in the World War. The Eastern Question, Berlin Congress, partition of Africa, Europe and the Orient, European progress in the 20th Century, the Balkan Wars, Europe before the World and the results of the War. Lectures, readings and conferences. Wednesday, 7:30-9:30.

## Accounting.—(Each Semester.) Advanced Course.

Two credit hours.

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, 7:30-9:30.

# Cost Accounting.—(Each Semester.) Two credit hours. 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; presentation and utilization of cost data; studies and reports of cost accounting systems; C. P. A. problems. Wednesday, 7:30-9:30.

## Business and Banking Finance.—(First Semester.) Two credit hours. 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 reorganization. Tuesday, 7:30-9:30.

## Business Law.—(Second Semester.) Two credit hours. 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, 7:30-9:30.

# Salesmanship.—(Second Semester.) Two credit hours. 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, 7:30-9:30.

## Industrial and Commercial Geography.—(First Semester.) Three credit hours. Beginning course.

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. Tuesday, 7:30-9:30; Friday 7:30-8:30.

\*Economic Development of the United States.—(Second Semester.) Three credit hours. Beginning course.

Development of colonial industry with a careful survey of the industrial history of England; early trade restrictions; availability of the resources of the United States and their developments; movements 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. Tuesday, 7:30-9:30; Friday, 7:30-8:30.

#### PHYSICS

#### PROFESSOR HOUSEHOLDER

It is planned to give a course corresponding to the regular day course in General Introductory Physics, 331 and 332. This course will include both class work and laboratory and will fulfill the regular minor requirement for the B. S. degree. In addition to the regular fees there will be an extra laboratory fee of \$2.00 for each semester's work or a total of \$8.00 for the course. A standard college text and laboratory manual will be used.

- I. Mechanics.—(First Semester.) Two credit hours. Thursday, 7:30-9:30.
- II. Wave Motion, Sound, and Heat.—(Second Semester.) Two credit hours. Thursday, 7:30-9:30.
- III. Magnetism and Electricity. —(First Semester.) Two credit hours. Thursday, 7:30-9:30.
- IV. Radioactivity and Light.—(Second Semester.) Two credit hours. Thursday, 7:30-9:30.

(Courses I and II or their equivalent are prerequisites for Courses III and IV.)

(Courses III and IV will not be given in 1923-24.)

### BIOLOGY

## PROFESSOR PLOWMAN MISS FRIEDLANDER

\*Heredity.—(First Semester.) Two credit hours.

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, 7:30-9:30.

\*Human Biology.—(Second Semester.) Two credit 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. Tuesday, 7:30-9:30.

\*Fundamentals of Biology.—(First Semester.) Two credit hours.

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, 7:30-9:30.

#### MATHEMATICS-PURE AND APPLIED

PROFESSOR JONES
PROFESSOR EGBERT
MISS LIPSCOMBE

\*302. Algebra.—(First Semester.) Four credit hours.
Surds, quadratic equations, systems of quadratics,
variation and proportion, logarithms, progressions, per-

mutations and combinations, binomial theorem, theory of equations. Monday, Tuesday, Thursday, Friday, 6:30-7:30.

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

Functions of angles, trigonometric equations, identities, solutions of triangles, inverse functions, and de Moivre's Theorem. Monday, Tuesday, Thursday, Friday, 6:30-7:30.

#### HOME ECONOMICS

#### PROFESSOR STIMMEL MISS STINSON

Foods.—(First Semester.) One credit hour.

Laboratory work in foods, their preparation, nutritive values, and comparative costs. Thursday, 7:30-9:30.

Foods.—(Second Semester.) One credit hour.

Continuation of first semester's work. Thursday, 7:30-9:30.

(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.) One credit hour.

Planning, buying and serving of balanced meals, and computing costs. Setting of table, and table service. Monday, 1:00-5:00. (Fee, \$4.00 for cost of materials.)

Housewives' Class in Table and Meal Service.—(Second Semester.) Two credit hours.

Repetition of first semester's work. Monday, 1:00-7:00. (Fee, \$6.00 to cover cost of materials.)

#### PHYSICAL EDUCATION

Physical Training.—(Both Semesters.) No credit.

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, 7:00-9:00.

#### PSYCHOLOGY AND EDUCATION

DEAN BANKES
PROFESSOR PLOWMAN
PROFESSOR HAYES
MISS CUSHMAN
ME, HECK
MES, MACKINNON
MR. WATERHOUSE
MISS HOOVEE
ME, HATTON

In addition to courses in **Psychology and Education and Methods and Teaching**, all subjects listed in the courses of study (starred) leading to a degree in the Teachers College will be accepted by Teachers College.

1102A. General Psychology.—(First Semester.) Two credit hours.

The first half of an elementary course in Psychology designed to acquaint the student with the foundation principles. A careful study is made of the nervous system, attention, sensations, perception, memory and imagination. Assigned readings for library work are given in connection with the text used. Tuesday, 7:30-9:30.

1102B. General Psychology.—(Second Semester.) Two credit hours.

Continuation of 1102A.

A study of associations, conception, judgment, reasoning, affection, feelings, motions, consciousness and behavior, will and the self. Tuesday, 7:30-9:30.

1103. Educational Psychology I.—(First Semester.) Two credit hours.

A study of misunderstanding, illusions, tact, openmindedness, changing concepts, pitfalls of reasoning, personality, imagery, character, work saved from drudgery, loyalty, discouragement, choosing vocations. Tuesday, 7:30-9:30.

1104. Educational Psychology II.—(Second Semester.) Two credit hours.

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; feeling; laws of mental growth; training. Saturday, 8:00-10:00.

## 1108A. Psychology of the Exceptional Child.—(First Semester.) Two credit hours.

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 instruction 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. Wednesday, 7:30-9:30.

## 1108B. Psychology of the Exceptional Child.—(Second Semester.) Two credit hours.

Continuation of Psychology of the Exceptional Child. 1108A. Wednesday, 7:30-9:30.

## 1110. Abnormal Psychology.—(First Semester.) Two credit hours.

Study of the abnormal child; history of institutions and classes for such children; care and training; causes for mental arrest; classification of subnormal children according to the nature of the defects; mental and physical tests as a basis for determining the nature of the defect; study of cases of abnormality. Tuesday, 7:30-9:30.

## 1112. Psychology of Learning.—(First Semester.) Two credit hours.

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. Saturday, 10:00-12:00.

1105. Child Psychology.—(Second Semester.) Two credit 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 interest and ability as well as for better supervision of his learning. Saturday, 10:00-12:00.

## 1107. Psychology of Adolescence.—(First Semester.) Two credit 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. Saturday, 8:00-10:00.

# 1116. Administration of Vocational Education. (Second Semester.) Two credit hours.

This is a short course intended primarily for teachers and principals interested in the organization and supervision of shop subjects. It deals with types, objectives, co-ordinating possibilities, courses of study, time schedules, records, housing, industrial connections and staff. Wednesday, 7:30-9:30.

# 1401. History of Education in Practical Arts.—(First Semester.) Two credit hours.

Teaching a vocation finds the recorded beginnings in agricultural and practical arts of the early period of

Egyptian history. Its various manifestations will be traced through Ancient, Medieval, and Modern History. Particular attention will be devoted to the developments in European countries that have paralleled the development in America. Wednesday, 7:30-9:30.

# 1118. Psychology of Shop Subjects I.—(First Semester.) Two credit hours.

The psychology involved in teaching shop subjects and its particular significance in the development of the child through the various grades in which shop subjects are taught.

# 1119. Psychology of Shop Subjects II.—(Second Semester.) Two credit hours.

Specific problems that may be factors affecting progress in learning will be assigned and discussed. The relation of the typical factors of chronological age, of mental age, and of physique to the requirements of the various shops suggests the type of problems. Tuesday, 7:30-9:30.

# 1130. General History of Education.—(First Semester.) Two credit 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. Saturday morning, 8:00-10:00.

# 1131. History of Education in United States.—(Second Semester.) Two credit hours.

European background followed by history of public education in the United States. Saturday morning, 8:00-10:00.

# 1133. Introduction to Scientific Study of Education.— (First Semester.) Two credit 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 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 morning, 10:00-12:00.

# 1134. Educational Measurements I.—(Both Semesters.) Two credit 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. First Semester, Tuesday, 7:30-9:30. Second Semester, Saturday morning, 10:00-12:00.

# 1135. Educational Measurements II.—(Both Semesters.) Two credit hours.

A procedure for completely reclassifying an entire school is developed. Methods are devised for taking account of the best judgment of the teacher regarding a child, for taking account of his ability in school subjects as well as his ability according to mental tests. The actual application of these methods will be made by using one of the local schools for the work.

This means that after the methods are well understood the class will give the tests and use the results according to these methods.

The course will be made a real piece of school work, the results of which will be used by the principal of the school in question.

This course is open to anyone who has had a year's work or a half year's work in Educational Measurements at the Municipal University of Akron. Teachers or principals who have had the equivalent of this course will also be allowed to enroll. First Semester, Saturday morning, 10:00-12:00. Second Semester, Tuesday, 7:30-9:30.

# 1160. School Organization.—(Second Semester.) Two credit hours.

A comparative study of traditional and modern school organization. Particular attention will be given to the

platoon plans of organization; various types of schools thus organized; correlation of different school activities; work required in different departments; duties of the different teachers; various schedules as found in platoon schools; discussion of comparative values in work-study-play programs.

# 1161. School Organization.—(First Semester.) Two credit hours.

A study of current educational movements and the fundamental causes of these movements; intensive study of a few of the school systems of the East and Middle West; careful analysis of such school organizations as Batavia, Platoon, 8-4, 6-6, 6-3-3; reasons for extension of school activities; practice in program making. Not open to students having credit for Course 1159. Wednesday, 7:30-9:30.

# 1172. Personal Hygiene (Applied).—(First Semester.) Two credit hours.

The aim of this course is to give a scientific background for the various health activities of the school and the community. The relationship existing between biological, the physical and the psychical factors in our lives, the causes and prevention of disease, problems in mental hygiene, social hygiene, eugenics, and sex education, from both school and social standpoint will be investigated. Not open to students having credit for course 1171. Thursday, 7:30-9:30.

# 1175. Corrective and Constructive Physical Training.—(Second Semester.) Two credit hours.

A course intended for teachers. Emphasis is placed upon discussion of corrective exercises in physical training, constructive courses for training in citizenship and proper games for athletic and gymnastic activities. Wednesday, 7:30-9:30.

# 1174. Community and Civic Ideals.—(Second Semester.) Two credit hours.

A discussion of ideals which should dominate the in-

fluence of the schools and cement the community and educational interests; the relation of various school subjects to life ideals; extra curricula activities and their influence; school discipline and individual self-control. Thursday, 7:30-9:30.

1176. The Auditorium.—(First Semester.) Two credit hours.

A study of the different activities as found in the auditoriums of Platoon Schools; organization of course of study and discussion of comparative values of auditorium practice. Tuesday, 7:30-9:30.

1180. Educational Sociology.—(Second Semester.) Two eredit hours.

A study of sociology and its relation to education. The following will be stressed: social organization, social groups, the State and education, growth of democracy, evolution of the modern school, socialization of school activities, vocational aspects of education and the essentials of the socialized school. Tuesday, 7:30-9:30.

1199. The Project.—(Second Semester.) Two credit hours.

The course is devoted to a discussion of the project method of teaching and its application to the various subjects of the curriculum as found in the various grades. An examination of types of teaching in common use as compared with the project method, and the need for scientific methods in curriculum organization will be features of the course. Tuesday, 7:30-9:30.

1178. Nature Study.—(Second Semester.) Two credit hours.

Lectures, discussions, and laboratory observations on those subjects in plant and animal life which are best fitted to give the student or teacher a more general knowledge of the world we live in. Such subjects as are especially adapted for teaching in elementary schools will be given due consideration. Thursday, 7:30-9:30.

# 1173. The Curriculum.—(First Semester.) Two credit hours.

This course is designed to give the student a perspective of the platoon school organization. With the cardinal principles of education as a basis, a comparative study is made of the elements in curricula activities, health, play, and the relation of school to society. Thursday, 7:30-9:30.

# 89. Story Telling I. — (Both Semesters.) Two credit 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

First Semester, Wednesday, 7:30-9:30. Second Semester, Saturday morning, 8:00-10:00.

# 90. Story Telling II.—(Both Semesters.) Two credit hours.

Continuation of Story Telling I. First Semester, Saturday, 8:00-10:00. Second Semester, Wednesday, 7:30-9:30.

# 1248. Use of Library.—(First Semester.) Two credit hours.

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, 7:30-9:30.

PROFESSOR HAYES

## METHODS AND TEACHING

DEAN BANKES

ASSISTANT-SUPERINTENDENT Mcelroy

MISS GLOVER MRS. HOWES Mrs. MACKINNON MR. HATTON

MISS HOOVER MISS CARSON

1201. Principles of Instruction in Secondary Education. —(Both Semesters.) Two credit hours.

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, 7:30-9:30.

1202. Modern Elementary School Practice.—(Second Semester.) Two credit 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 book; lecture method; testing vs. teaching; care and use of outside material. Thursday, 7:30-9:30.

1217. Primary Methods.—(First Semester.) Two credit hours.

A course in the general methods pertaining to the work of primary teachers with special attention to reading. Materials for construction work, methods and devices for use in the primary grades and the application of psychological principles to Primary Education. Saturday morning, 8:00-10:00.

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

A continuation of Course 1217. Saturday morning, 10:00-12:00.

1224. Methods in Geography and Science.—(Second Semester.) Two credit hours.

Methods and devices for teaching geography; proper correlation; place in curriculum. Science for the upper grades and its adaption to the curriculum in the elementary schools. Thursday, 7:30-9:30.

1225. Methods in Arithmetic.—(Second Semester.) Two credit hours.

Methods and devices for teaching arithmetic; its place in the curriculum for the various grades. Tuesday, 7:30-9:30.

1229. Methods in High School English.—(First Semester.) Two credit hours.

This is a course for teachers and prospective teachers of English in junior and senior high schools. The emphasis will be on the problems and methods of composition, and on the appreciation and practical uses of literature. Contact with present theory and practice will be given by lectures and assigned readings. Wednesday, 7:30-9:30.

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

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, 7:30-9:30.

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

Continuation of Public School Music I. Wednesday, 7:30-9:30.

1239. Methods in Teaching Language.—(First Semester.) Two credit hours.

A course for elementary teachers. Methods and devices for teaching; study of the Language curriculum of Akron and the application of principles of teaching. Tuesday, 7:30-9:30.

# 1240. Methods in Elementary History.—(Second Semester.) Two credit hours.

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. Wednesday, 7:30-9:30.

# 1244. Literature for the Primary Grades.—(Second Semester.) Two credit hours.

The purpose of the course will be to familiarize teachers with some of the best story-books, picture-books and poems for children, thus enabling them to show the value of good reading to the child. This will necessitate a brief study of the history of children's books, the age of appeals, and the methods of interesting the child.

If desired, the course will also include a definite classification, according to the tests for judging, of stories, poems and picture study as projected in the Primary Platoon.

Written and oral reports, discussions, talks and demonstrations will be the method pursued. Tuesday, 7:30-9:30.

# 1251. Principles of Art.—(First Semester.) Two credit hours.

In this course the fundamentals of design, free-hand drawing and interior decoration are given. The work begins with a thorough study of the methods of construction underlying the design unit, bi-symmetric and occult, the border and the all-over pattern. Order, balance and rhythm are carefully studied. This preparatory work is followed by the rendering of a series of original design plates showing the application of the elements already learned. In free-hand drawing we study the representation of nature and still life. Pencil, crayon and water color are used. Wednesday, 7:30-9:30.

# 1309. Songs and Games.—(First Semester.) Two credit hours.

Dramatic arts, plays, games and dances of early child-hood. A study of games will be made from the genetic

standpoint, beginning with early childhood activities in which they originate, tracing their development from the informal game into the more highly organized and artistic traditional forms.

The course includes a study of the theories of play, the playing of games and practice in construction of games for children in Kindergarten and Primary grades.

Types of music used: Band work, floor rhythms, music appreciation and singing of songs suitable for Kindergarten and Primary grades. Tuesday, 7:30-9:30.

## FIRST SEMESTER

# Monday

6:30-7:30 P. M.

\*Algebra

7:30-9:30 P. M.

\*American Government and Politics

# Tuesday

6:30-7:30 P. M.

\*Algebra

7:30-9:30 P. M.

\*First Year French \*First Year Spanish

\*Speech, Elementary

Corporations and Trust Problems Business and Banking Finance Industrial and Commercial Geography

\*Heredity

\*Fundamentals of Biology Physical Training

General Psychology, 1102A

Educational Psychology I, 1103 Psychology of Shop Subjects I,

1411

Abnormal Psychology, 1110

Educational Measurements I, 1134

The Auditorium, 1176

Principles of Instruction in Secondary Education, 1201

Methods in Teaching Language,

Songs and Games, 1309

## Wednesday

6:30-7:30 P. M. 7:30-9:30 P. M.

\*Rhetoric, 51

\*Studies in Comparative Literature

Applied Sociology

\*American Government and Politics Bookkeeping and Accounting

Cost Accounting
\*Political and Social History of Europe, 1789-1860.

History of Education in Practical Arts, 1401. School Organization, 1161 Story Telling I, 89 Methods in High School English, 1229 Public School Music I, 1231 Principles of Art, 1251 Psychology of the Exceptional Child, 1108A.

# Thursday

6:30-7:30 P. M. 7:30-9:30 P. M.

\*Algebra

\*First Year French

\*First Year Spanish

\*Second Year French

\*Second Year Spanish

\*English Novel

Advanced Story Telling III

\*Speech, Advanced Accounting Mechanics Foods Personal Hygiene, 1172. Fundamentals of Biology, 1179

The Curriculum, 1173 Use of Library, 1248

## Friday

6:30-7:30 P. M. 7:30-9:30 P. M.

\*Algebra

\*Rhetoric, 51

Industrial and Commercial Geography

## Saturday Morning

8:00-10:00

10:00-12:00

Psychology of Adolescence, 1107

Story Telling II, 90

General History of Education, 1130 Introduction to Scientific Study of

Education, 1133A

Psychology of Learning, 1112

Educational Measurements II, 1135

Primary Methods, 1217

## SECOND SEMESTER

## Monday

6:30-7:30 P. M. \*Trigonometry 7:30-9:30 P. M. \*American Government and Politics Tuesday 6:30-7:30 P. M. \*Trigonometry 7:30-9:30 P. M. \*First Year French \*First Year Spanish \*Speech, Elementary Labor Problems Business Law \*Economic Development of the United States \*Human Biology Physical Training General Psychology, 1102B Psychology of Shop Subjects II, 1412 Educational Measurements II, 1135 Introduction to the Scientific Study of Education, 1133B Educational Sociology, 1180 The Project, 1199 Methods in Arithmetic, 1225 Literature for Primary Grades, 1244Principles of Instruction in Second-

## Wednesday

6:30-7:30 P. M. 7:30-9:30 P. M.

\*Rhetoric, 52

Practical Psychology

ary Education, 1201

\*American Government and Politics

\*Bookkeeping and Accounting Cost Accounting

Salesmanship

\*Political and Social History of Europe 1860-1920

Administration of Vocational Education, 1116

School Organization, 1160 Corrective and Constructive Physical Training, 1175 Psychology of the Exceptional Child, 1108B Story Telling II, 90 Public School Music II, 1232 Methods in Elementary History, 1240

# Thursday

6:30-7:30 P. M. 7:30-9:30 P. M.

- \*Trigonometry
- \*First Year French
- \*First Year Spanish \*Second Year French
- \*Second Year Spanish
- \*English Novel

Advanced Story Telling

\*Speech, Advanced Accounting

Wave Motion, Sound and Heat

Foods

Nature Study, 1178

Modern Elementary School Prac-

tice, 1202

Methods in Geography and Science,

Community and Civic Ideals, 1174

## Friday

6:30-7:30 P. M. 7:30-9:30 P. M. \*Trigonometry \*Rhetoric, 52

Economic Development of the

United States

# Saturday Morning

8:00-10:00

Story Telling I, 89

Educational Psychology II, 1104 History of Education in the United States, 1131

10:00-12:00 Child Psychology, 1105.

Educational Measurements I, 1134

Primary Methods, 1218

# TEACHERS COLLEGE

# SUMMER SESSION 1923. INTRODUCTORY STATEMENT

Educational ideals, methods of teaching, and the curriculum of the public schools have been continually modified to meet changing social and industrial conditions. Emphasis upon various subjects has changed to meet these changing conditions. The best interests of the schools require that all work in teacher training shall be of a character that will be accepted without question by the leading universities of the country. This fact is of special importance when summer school work is considered. The work done at the University of Akron is accepted by all the leading universities. The Teachers College is ranked in Class A in the American Association of Teachers Colleges. The work of the 1922 summer school met the standards of the regular courses of the institution; 1923 is planned so that students of 1922 may continue the work begun. New students will find classes in practically all the departments of the institution. The two-year and three-year programs should appeal to all teachers who are not primarily interested in obtaining a degree in education. Summer school courses enable teachers to complete programs of training in a short time. College students will also have greater and better opportunities to take advanced courses in 1923.

The State Department of Education recognizes the University of Akron as an institution for training teachers in the various departments of Public School work. The completion of courses as outlined in the Teachers College insures the issuance of State provisional and life certificates. The organization of Teachers College under the joint management of the Akron Board of Education and the Directors of the University has created a splendid spirit of co-operation between the University and the Public Schools.

### GENERAL INFORMATION

The second year of the Summer Session of the Municipal University of Akron will open June 18 and continue until July 27. Class exercises in each subject will be held every week day except Saturday. On account of University Commencement, there will be no sessions Wednesday forenoon, June 20. Instead, classes will recite Saturday forenoon, June 23. Examinations will be held at the close of the session. In art and the sciences, laboratory work will be additional, as noted in the schedule of classes on page 209.

The principal object of the summer courses is to furnish instruction to teachers and other persons who seek opportunities for instruction. Some courses are designed to meet the needs of collegiate students who wish to advance their standing or to make up deficiencies.

## Character of Instruction

The courses maintain the standard of instruction which characterizes the work of the regular session. As far as possible the courses are taught by the members of the faculty of the University.

### Selection of Courses

Teachers who are working toward the completion of the requirements for the two-year diploma and State certificate should be careful to select their courses to this end. All other students should be certain that the courses selected fit the purpose in mind. The Director of the Summer Session should be consulted if any assistance is needed.

## Academic Credit

No student will be permitted to take courses aggregating more than six hours' credit, except by special permission. In such cases the work shall not exceed seven hours. Hours have various meanings in different institutions. In the University of Akron thirty-two semester hours constitute a year's work. Credit granted in the Summer School will be accepted in the various colleges of

the University. All courses are credited in the Teachers College. Those starred are credited in the Liberal Arts College.

Students not matriculated in the University will receive certificates indicating the amount of work satisfactorily completed.

### Practice Teaching

Central High School will be in session during the summer. Plans have been made whereby all students in the Summer Session who need credit in Practice Teaching in the upper grades or high school may do their practice teaching in this school under the direction of a well-trained supervisor.

### Admission and Attendance

There are no formal examinations for admission, but students under 21 years of age must have completed a four-year high school course of study. The Summer Session will begin promptly on June 19 and carry out the schedule provided on page 21. Registration will take place in Room 38, Buchtel Hall, June 18, from 8:00 A. M. to 5:00 P. M. Any person registering after June 18 will be charged an additional fee of \$1.00 for the first day and twenty-five cents for each additional day of delay. June 21 is the last possible date for registration. All late registrations must be passed upon by the Director of the Summer Session. No change of courses will be permitted without the consent of the Director. All fees, including both tuition and laboratory fees, must be paid to the Secretary of the University immediately as an item in registration. Registration and payment of fees should be made in person on June 18, or by mail in advance of the opening of the session.

### Assembly

All students are required to be in attendance at the Assembly exercises. Not more than one absence from Assembly will be permitted in the Summer Session; otherwise deduction will be made from the number of credits

earned, in accordance with the plan of the University in its regular session. Assembly exercises will be held each Friday at the time outlined in the schedule. The programs will be made as interesting as possible. Special musical productions and other attractive features will be added to the printed program.

## Assembly Program

- June 22—"Teachers College as an Opportunity for Advancement," C. R. Reed, Superintendent of Schools, Akron, Ohio.
- June 29—Drinkwater's "Abraham Lincoln," presented by Hortense Neilsen, Famous Impersonator.
- July 6—"Story Telling," Mrs. Annie L. MacKinnon, Teachers College, Municipal University, Akron, Obio
- July 13—"Civic Ideals," D. C. Rybolt, Mayor, City of Akron.
- July 20—"The Character Content of Education," H. T. Waller, Secretary of Y. M. C. A., Akron, Ohio.
- July 27—"The Teacher's Compensation," Dean A. I. Spanton, Liberal Arts College, Municipal University, Akron, Ohio.

# Special Attractions

The Summer Session students will have opportunity to enjoy several special programs during the term. Drinkwater's "Abraham Lincoln," presented by Hortense Neilsen, will be a treat. Miss Neilsen has given recitals in more than fifteen hundred universities and colleges.

The Civic Drama Association of Akron will present an attraction the last week of June. Detailed announcements will be given later.

On the afternoon and evening of July 10, the Devereux Dramatic Company of New York City will present Shakespeare's "Romeo and Juliet" and "Hamlet."

Arrangements are being made for other attractions which will be of interest to the student body.

## Expenses

The tuition fee of \$4.00 per semester hour will be charged all students. Each course carries a statement of semester hours so that it is easy for any student to determine the cost of the course. Attention is called to the late registration fee and additional laboratory fees as explained in the description of the science courses.

## Board and Lodging

The Director of the Summer Session has on file addresses of those who desire roomers or boarders. These addresses will be furnished students upon request.

# University Book Store

All texts used in the various classes will be on sale at the University book store.

## Programs of Study

Teachers who are planning the completion of certain programs of study will be interested in the regular Teachers College bulletin which may be had upon request. For any further information, address W. J. Bankes, Director of the Summer School.

## COURSES OF INSTRUCTION

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

Psychology and Educ	ation1101-1200
	g1201-1250
A mt	1251-1260

Other subjects are numbered as in the General Catalog.

## PSYCHOLOGY AND EDUCATION

S1102A. General Psychology. Two hours.

The first half of an elementary course in Psychology is designed to acquaint the students with the foundation

principles. A careful study is made of the nervous system, attention, sensations, perception, memory and imagination. Assigned readings for library work are given in connection with the text used.—Professor Olin.

## S1104. Educational Psychology II. Two hours.

This course is designed as introductory to the more advanced courses in 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: Course 1102.—Professor Hayes.

# S1108A. Psychology of the Exceptional Child. Two hours.

The purpose of this course is to give a scientific perspective of the problem of the "exceptional" child and to suggest ways and means of coping with the problem in its various aspects. Questions of heredity and family history, of environment and social-economic conditions, of psychologic and psychopathic investigation enter into the discussions. Problems of the feeble-minded, the backward as well as the precocious and the gifted child, will be considered.—**Professor Hayes**.

# S1130. History of Education. Two 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.—Mr. Bowman.

# S1131. History of Education in the United States. Two hours.

This course consists of a brief survey of the European background of our present day school organization, and the incentives which have aided in the development of the American school system, followed by a detailed consideration of the more important present day problems in the organization, administration and adjustment of public education in the United States, considered in the light of their historical development. The primary purpose of this course is that of furnishing students with an understanding and appreciation of present educational problems and acquainting them with the conditions, forces and ideals which have produced the American School.—Mr. Bates.

## S1112. The Psychology of Learning. Two 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.—Professor Hayes.

## S1198. Education (Junior High). Two hours.

What constitutes a Junior High School; its peculiar functions; what it guarantees to do; its characteristic features; types of organization necessary to realize its functions; its peculiar dangers, and how they may be avoided.—Mr. Bowman.

#### S1173. The Curriculum. Two hours.

This course is designed to give the student a perspective of the platoon school organization. With the cardinal principles of education as a basis, a comparative study is made of the elements in curricula making, departmental teaching, extra curricula activities, health, play, and the relation of school to society.—Mr. Hatton.

## S1199. The Project. Two hours.

The course is devoted to a discussion of the project method of teaching and its application to the various subjects of the curriculum as found in the various grades. An examination of types of teaching in common use as compared with the project method, and the need for scientific methods in curriculum organization will be features of the course.—Miss Hoover.

## METHODS AND TEACHING

# S1201. Conduct of the Recitation in Secondary Schools. Two hours.

Principles of teaching and problems of instruction which are met in the average class room. Such problems as the following will be considered: teacher control, class control, selection of the subject matter, its organization into lessons, methods of presentation, analysis of lessons given by experienced teachers, observation of classes at work, supervised study, elements of personality affecting the work of pupils. An attempt will be made to adapt this work to the different subjects of the curriculum. By completing additional assignments in outside readings, students may receive three hours' credit to meet requirements of the State for certificates.—Mr. Ferguson.

## S1209. Teaching the Common Branches. Two hours.

A careful analysis of the underlying principles of teaching each of the elementary school subjects; methods of classroom procedure; factors in the selection of material; proper use of supplementary materials, and applications of the various methods of teaching.—Mr. Bates.

## S1210. Principles of Teaching. Two hours.

A discussion of the principles of educational practice and evaluation of the various principles in the light of educational psychology. The aim of the course is to help the teacher deduce educational principles in school management and instruction. By completing additional assignments, students may receive three hours' credit to meet requirements of the State for certificates.

# -Dean Bankes.

#### S1213. Practice Teaching.

Central High School will be in session so that teachers needing practice teaching in upper grades and high school to meet the State requirements may have opportunity to do this work. The credit earned will depend upon the amount of time spent in teaching. State standards will be used to determine the credit earned.

# S1218. General Primary Methods. Two hours.

A course in the general methods pertaining to the work of the primary teacher. Materials for construction work, methods and devices for use in the primary grades and application of psychological principles to primary education.—Miss Maddux.

## S1223. Geography and Methods. Two hours.

Methods and devices for teaching geography; proper correlation and its place in the curriculum.—Mr. Hatton.

### S1225. Arithmetic and Methods. Two hours.

Methods and devices for teaching Arithmetic; its place in the curriculum for the various grades.—Mr. Hatton.

## S1237. Methods in Reading. Two hours.

Careful attention to the various basic principles underlying the different methods, with particular attention to the Aldine method. Intended primarily for teachers of the first three grades.—Miss Maddux.

## S1243. Literature for the Grades IV to VIII. Two hours.

A careful study of the best selections of literature as suited to these grades in the Public Schools. Special emphasis will be given to the appreciation of the selections and proper methods of presentation to pupils.

## -Miss Hoover.

### S1238. Literature for the Primary Grades. Two hours.

The purpose of the course will be to familiarize teachers with some of the best story-books, picture-books and poems for children, thus enabling them to show the value of good reading to the child. This will necessitate a brief study of the history of children's books, the age of appeals, and the methods of interesting the child.

If desired, the course will also include a definite classification, according to the tests for judging, of stories, poems and picture study as projected in the Primary Platoon.

Reports, written and oral; discussions; talks and demonstrations will be the method pursued.—Mrs. MacKinnon.

# S1239. Language and Methods. Two hours.

A discussion of the best methods of teaching English in the grades, and also investigation of various methods used in supervising study. In detail, the course will include a study of the methods of teaching literature, oral and written composition, pictures as an aid to composition, and sources of material for composition. A special feature of the course will be to give practice in teaching sentence structure as an important phase of all oral or written expression. The course will include a great deal of reading in connection with projects to be worked out in literature.

-Miss Hoover.

## S1309. Songs and Games. Two hours.

For Kindergarten and Primary teachers.

Dramatic arts, plays, games and dances of early childhood. A study of games will be made from the genetic standpoint, beginning with early childhood activities in which they originate, tracing their development from the informal game into the more highly organized and artistic traditional forms.

The course includes a study of the theories of play, the playing of games and practice in construction of games for children in Kindergarten and Primary Grades.

Types of music used: Band, floor rhythms, music appreciation, and singing of songs suitable for the work.

-Mrs. Howes.

### **ENGLISH**

## S51. Freshman English. Two hours.

This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas clearly, correctly, concisely, and concretely. Attention is devoted particularly to sentence and to paragraph structure. The students write short expository compositions.—Mr. Harrison.

# S52. Freshman English. Two hours.

This course is designed with the same purpose as 51, of which it is a continuation. Attention, however, is given to description, characterization, and narration. The students write compositions that build up to a final, long narrative work.—Mr. Harrison.

## S65. English Literature. Two hours.

A survey of English literature from the earliest times to the middle of the eighteenth century, with special emphasis on the Elizabethan and Puritan periods. The course includes a study of the personalities and literary work of the leading writers, the historical background of their efforts, and the social forces that shaped and directed the development of the literature. Textbooks: Moody and Lovett's History of English Literature and Century Readings from English Literature.—Dean Spanton.

Note: The above course is offered every other summer, alternating with Literature 66, which covers the later half of the literature, from the middle of the eighteenth century to the present day. By completing additional assignments in outside reading, students may get three hours' credit for each course, and thus secure the full equivalent of the courses in Literature 65 and 66 regularly offered in the day classes of the University.

## S69. Shakespeare. Two hours.

The purpose of this course is two-fold: (1) to acquaint the student with Shakespeare's development as a dramatist, and his place in the Elizabethan Age and in English literature; (2) to make known to him the great dramatist's best work so that he will not only enjoy the plays read in this course, but will also do further reading in Shakespeare, and return again and again to the reading in after years with ever keener delight. Fifteen or more of the best plays are read.—Dean Spanton.

## S73. Tennyson and Browning. Two hours.

The reading and study—so far as the limited time will permit—of the best work of these two poets. Considerable outside reading in constructive criticism of the poems read is required. The aim of the course is to help the student to read both Tennyson and Browning more intelligently and with greater pleasure and profit, and especially to show him wherein lie the permanent significance and power of the work of these two greatest English poets of the Victorian Age.—Dean Spanton.

# S89. Story Telling I. Two 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 includes 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; the writing of one original story, the invention of an original story from a picture, comparisons between the old and modern stories, and dramatization of stories; other stories, talks and discussion as the work demands.—Mrs. Mackinnon.

# S90. Story Telling II. Two hours.

A continuation of the work of Story Telling I, 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 requirements are: The telling of one three-minute story, one five-minute story, the giving of one ten-minute talk; the adaptation of a bible story, and an oral review, written comparisons between different variants of the same story and dramatizations of stories; other stories, talks, and discussions as the work demands.—Mrs. Mackinnon.

## S91. Speech. Two hours.

Fundamental principles, voice technique, tone placing, tone building, enunciation, literary analysis, gesture, evolution of expression, vocal and physical. Extempore speeches, critiques, personal development.

-Miss McEbright.

### SOCIOLOGY

# S213A. General Sociology. Two hours.

Nature of society. Nature and scope of sociology. Purposes and methods. The evolution of social forms and activities; giving attention to the organization and life of the family, the development and functions of the state, the social phases of industry, the evolution of ethics and religion. The socialization of mankind, with a study of social forces, and laws, and the methods of social control.—Professor Olin.

# S1180. Educational Sociology. Two hours.

A study of sociology and its relation to education. The following will be stressed: social organization, social groups, the State and education, growth of democracy, evolution of the modern school, socialization of school activities, vocational aspects of education and the essentials of the socialized school.—Mr. Bates.

### POLITICAL SCIENCE

### S261A. American Government. Two hours.

The course includes a study of the origin, development, structure, and activities of the national government. Emphasis placed on projects of public administration and services rendered. Illustrative material based on current problems. Text, discussions, reports.

-Professor Crecraft.

# S1208. Teaching Vocational Civics. Two hours.

The jobs and workers of a community. Citizenship from the point of view of vocational efficiency and employment. An analysis of government and vocational

relationships. The problems of government control of business and economic organizations. The effect of business interests on government. The business activities of government.—**Professor Crecraft**.

### BIOLOGY

# S402. General Biology. Four hours.

Beginning with mosses and ferns among plants, and with arthropods among animals, this course considers the prominent systematic, structural, and physiological characteristics of the higher groups of living things, together with their distribution and economic interest. Much of the practical study in this course will be carried on in the field, and the course will be designed especially to meet the needs of teachers.

Summer school students may begin their study of biology with this course.

One full hour lecture per day, and three hours and twenty minutes per day in laboratory or field work five days per week. Laboratory fee, \$2.50.

-Professor Plowman.

# S414. Human Biology. Two hours.

A study of the systematic relation of man to the lower forms of life; embryology, genetics, heredity; the mechanism and mode of development; hygiene, sanitation, and public health.

This is the second half of the regular college course in this subject, but it is so adapted as to permit summer school students to begin with this part of the course, and finish with the first half the following year.

One full hour lecture per day, five days per week, together with text-book and some reference reading.

-Professor Plowman.

## MODERN LANGUAGE

## S151. Beginning French. Two hours.

Drill in pronunciation, essentials of grammar, irregular verbs, reading and conversation. Those who complete this course will be permitted to enter the second year course in the Evening Session.—**Professor Bulger**.

### MATHEMATICS

# S302. Algebra. Four hours.

Surds, quadratic equations, systems of quadratics, variation and proportion, logarithms, progressions, permutations and combinations, binomial theorem, theory of equations. Two hours recitation each day.

-Professor Jones.

#### ART

### S1253. Art. Two hours.

A study of decorative design, interior decorating and costume design. The greater part of the time is spent on interior decorating. All plates are rendered in water color, special emphasis is laid on arrangement, line and color harmony. Double period each day.

-Miss Kenniston.

### S1233. Home and School Crafts. Two hours.

This course includes the study of block printing, stenciling, craft needlework, painting on tin and sanitas and book binding. Practical application is made of each craft. Double period each day.—Miss Kenniston.

## PUBLIC SCHOOL MUSIC

The course in Public School Music is designed to meet the needs of grade school teachers who wish to become acquainted with material and methods suitable for pupils in their particular grades. The object of the course is to provide students with necessary equipment to cope with musical problems which confront the teacher and which will aid them intelligently to develop and safeguard the child-voice. It is also the purpose of this course to awaken teachers to the fact that "music" is an educational as well as an aesthetic course, and that it is vitally important that the child be as properly instructed in the tone-language as in other studies. The courses offered are based on the Hollis-Dann course in music.

#### S1231A. Public School Music. Two hours.

A course for teachers of Kindergarten and Primary Grades. Attention is given to rote songs, tone rhythm, sight reading, dictation, and sequential studies.

-Miss Cully.

## S1231B. Public School Music. Two hours.

A study of music for teachers of grades four to eight. More advanced work in subjects mentioned in Course S1231A and, in addition, syncopation, part singing, and other work found in these grades.—Miss Cully.

### SCHEDULE

All courses are credited in the Teachers College. Those starred receive credit in the Liberal Arts College.

7:30 A. M. to 8:30 A. M.—\*Story Telling II, B-25; \*General Biology (Laboratory), O-34; The Project, B-37; Arithmetic and Methods, B-26; \*College Algebra, B-22; \*Art 1253, B-12; \*Shakespeare, B-38; \*History of Education in the United States, B-32.

8:40 A. M. to 9:40 A. M.—General Primary Methods, B-32; Principles of Teaching, B-22; \*General Psychology, B-26; \*Psychology of the Exceptional Child, B-37; \*General Biology (Laboratory), O-34; \*History of Education, B-38; \*American Government, B-25; \*Art 1253, B-12; \*English 51, B-11; Geography and Methods, B-15.

9:50 A. M. to 10:50 A. M.—Methods in Reading, B-32; Public School Music (For Primary Grades), B-13; \*Psychology of Learning, B-15; \*General Biology (Laboratory), O-34; Literature for Grades IV to VIII,

- B-37; Education (Junior High), B-26; Teaching Vocational Civics, B-25; \*Beginning French, B-22; \*English 52, B-11; \*Tennyson and Browning, B-38.
- 11:00 A. M. to 12:00 M.—Literature for Primary Grades, B-25; \*General Sociology, B-26; \*Speech, B-32; \*Educational Psychology, B-37; Public School Music, (Grades IV to VIII), B-13; \*College Algebra, B-22; Teaching the Common Branches, B-38.
- 1:30 P. M. to 2:30 P. M.—Language and Methods, B-37; \*General Biology (Recitation), O-25; \*Educational Sociology, B-25; \*Home and School Crafts, B-25; \*English Literature, B-38; Songs and Games, B-13.
- 2:40 P. M. to 3:40 P. M.—\*Story Telling I, B-25; \*Human Biology, O-25; Conduct of the Recitation in the Secondary School, B-22; \*Home and School Crafts, B-12; The Curriculum, B-32.
- Note—B refers to Buchtel Hall and O to Olin Hall. The numbers after each subject are the room numbers where the classes will recite.

Assembly exercises will be held each week on Friday from 10:15 to 11:00 o'clock. Class periods on Friday morning will be as follows:

7:30 to 8:20 9:20 to 10:10 8:25 to 9:15 11:10 to 12:00

Class exercises in each subject will be held every week day except Saturday. Summer Session begins Tuesday, June 19. Registration, Monday, June 18.

## THE UNIVERSITY LECTURES

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.

The conditions for giving the lectures 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.

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 118.

# The Arts-Teachers Combination Course

A combination may be made between the Arts and Teachers courses for those expecting to teach. The student who plans for this combination should spend three years in the College of Liberal Arts and two years in Teachers College. The classification committee will outline with the student the subjects to be taken so as to

fit the courses for both degrees. Students planning to teach in Akron should consult the Dean of Teachers College when deciding upon the major, so as to prepare for work in departments needing teachers. All students preparing to do high-school teaching in Akron must take the combination course which leads to a degree in each of the two colleges.

## 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. To be eligible for the combined Arts-Agriculture Course a student must be a resident student at the University of Akron for at least three years, and must gain at least 96 term hours' credit including all major and minor requirements for a B. S. major.
- 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.
- 3. Students intending to complete the combined Arts-Agriculture Course must plan their three years of work in Buchtel College with the Classification Committee at the beginning of their freshman year.

# 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 UNIVERSITY

### The Arts-Law Combination Course

A six-year combination course similar to the Arts-Law combination course with Ohio State University described on page 213.

## The Arts-Medicine Combination Course\*

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.

<sup>\*</sup>This course is here detailed as typical of a combination possible with the large majority of medical schools.

# General Requirements in Buchtel College of Liberal Arts

- 1. No student is eligible for the Combined Arts-Medicine Course who has not been a resident student at the University of Akron for at least three years and who has not gained at least 96 term hours' credit in Buchtel College.
- 2. No student shall be eligible for a degree from Buchtel College of Liberal Arts in the combined Arts-Medicine Course who has not received sufficient credit at the Western Reserve University to complete a total of 128 term hours of work.

# 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 4 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 Laboratory, 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

E. F. SCHAEFER, B. E. M., DIRECTOR

In accordance with the 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 Bu-

reau continues to do bacteriological milk and water analyses, and all other physical and chemical tests for the various city departments, together with brick testing for Summit County.

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

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

The following list covers activities of the past few years:

#### Department of Sociology

Housing survey by students under direction of Health and Charity Organization. Field work under direction of Charity Organization and Red Cross.

Leaders of clubs under direction of Y. W. C. A. and Y. M. C. A.

Training classes for social workers in co-operation with the Charity Organization Society.

#### Department of Political Science and Economics

The Department of Political Science and Economics has continued the practice commenced three years ago of assigning certain students to projects which the Bureau of Municipal Research has under way. Studies made during the past year have mainly involved taxation and appraisement of property. In addition, the department has responded to a number of requests from outside sources for assistance of various kinds. It is the expectation that this clinical method of co-operative work will be encouraged through the development of the seminar. Whenever a live problem is brought to the attention of the department, students can be readily found who will work out the necessary statistical information under direction.

#### School of Home Economics

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

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

#### Department of Physical Education

Summer camp work by Director, Assistant-Director and students.

#### Department of English

Field work in journalism on local newspapers.

#### Department of Biology

In close affiliation with the City Health Department. Courses in sanitation, hygiene, and fundamentals of biology for nurses and teachers. Numerous informal talks on health topics have been given before various organizations, including many groups of the Home and School League, Clubs, Church organizations, Y. M. C. A., Y. W. C. A., boys of the Children's Home, and the County Horticultural Society.

#### College of Engineering and Commerce

Engineering students work alternate two-week periods in foundries, machine shops, rubber factories, and on construction and railroad work. Arrangements are under way to provide outside work on alternate basis for commerce students. Civil engineering students are assigned to municipal work under direction of city service departments.

Engineering instructors make numerous tests of materials and machines for local industries. Technical men in local organizations use facilities of engineering laboratory for testing purposes.

#### Department of Chemistry

Two fellowships in the chemistry of india rubber, open to graduates of standard American colleges, have been established at the Municipal University by Akron rubber companies, for the purpose of training men for service in their laboratories.

#### Evening Courses

The University offered courses in the following subjects in late afternoon and evening classes to the people of Akron during the academic year 1922-23.

Modern Elementary School Practice Educational Measurements Fundamentals of Biology Methods in Arithmetic Methods for the Continuation School Teacher Literature for the Grades Principles of Instruction in Secondary Education Educational Psychology History of Education First Year French First Year Spanish Speech, Elementary Course Brief Course in Economics Business and Banking Finance Heredity Methods in High School English Home and School Crafts Story Telling Public School Music 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 Psychology of the Exceptional Methods in Modern Languages

History of English Literature Second Year Spanish Story Telling in the Home and Sunday School Speech, Advanced Course Accounting Advertising Modern Physical Theories Foods Methods in Aldine Reading Psychology of Adolescence Methods in Teaching Language Instruction in the Scientific Study of Education Psychology of the Common Branches Methods in Elementary History Methods in High School Science International Political Problems Business Law Human Biology Psychology of Learning Practical Psychology Salesmanship Methods in High School Mathematics Use of the Library Social Occupations History of Education in the United States Primary Methods Child Psychology Educational Sociology Physical Training

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 bring teacher training into closer contact with the 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

#### 1922-1923

#### GRADUATE STUDENTS

Barnes, Garrett H., Jr.	Roslindale, Mass.
B. S., Massachusetts Institute o	f Technology
Case, Francis Owen	Akron
Ch. E., Northwestern University	7
Davies, John Morris	Akron
B. S., Municipal University of A	kron -
B. S., Municipal University of A	Akron
B S Municipal University of	1 kron
B. S., Municipal University of A Freedlander, Rosalind Gertrude B. S. in Home Economics, Munic	Akron
P S in Home Factories Munic	inol Tiningrapity of Altron
Freshe Albert John	ipai University of Akton
A. B., Municipal University of	Alo-
Hardway Cooper Ting	Akron
D C Obia Nanthan III in anima	Doylestown
Hardgrove, George Lind B. S., Ohio Northern University McWhorter, John Francis	Middleter Delemon
D C Trimerity of Delegation	Middletown, Delaware
B. S., University of Delaware	353 37. T
Seitz, Ira James	Mandan, N. D.
A. B., Asbury College Tobin, Ellen Fenlon	
Tobin, Ellen Fenlon	Akron
Tobin, Ellen Fenlon	sity
	Total 10-Man
	Total 10 Men
•	Women
SENIOR C	women
SENIOR C	LASS
SENIOR C	LASS urse
SENIOR C Cor Andrus, James R.	women LASS urse BAkron
SENIOR C Cor Andrus, James R.	women LASS urse BAkron
SENIOR C Cor Andrus, James R.	women LASS urse BAkron
SENIOR C  Con Andrus, James R	Women
SENIOR C  Cot  Andrus, James R	Women
SENIOR C  Cot  Andrus, James R	Women
SENIOR C  Cot  Andrus, James R	Women
SENIOR C  Cot  Andrus, James R	Women
SENIOR C  Con Andrus, James R	Women
SENIOR C  Con Andrus, James R	Women
SENIOR C  Coray Laith Grace  SENIOR C  Coray Edith Grace  Coray Edith	Women
SENIOR C  Cor Andrus, James R. A. Arenson, Anne B. Armstrong, Dorothy A. Betzler, Alma Elizabeth A. Bishop, Alfred Elden B. Blackburn, M. Alene A. Bliley, Clarence James A. Brewster, Albert James A. Cable, William Sanford B. Chamberlain, Gladys A. Cray, Edith Grace A. Derreb Donald Carlton B.	Women
SENIOR C  Cor Andrus, James R. A. Arenson, Anne B. Armstrong, Dorothy A. Betzler, Alma Elizabeth A. Bishop, Alfred Elden B. Blackburn, M. Alene A. Billey, Clarence James A. Brewster, Albert James A. Cable, William Sanford B. Chamberlain, Gladys A. Cray, Edith Grace A. Darrah, Donald Carlton B. Davis, Anna Eleanor A.	Women
SENIOR C  Cor Andrus, James R. A. Arenson, Anne B. Armstrong, Dorothy A. Betzler, Alma Elizabeth A. Bishop, Alfred Elden B. Blackburn, M. Alene A. Bliley, Clarence James A. Brewster, Albert James A. Cable, William Sanford B. Chamberlain, Gladys A. Cray, Edith Grace A. Darrah, Donald Carlton B. Davis, Anna Eleanor A. Dunckley, Sarah E. B.	Women
SENIOR C  Cor Andrus, James R. A. Arenson, Anne B. Armstrong, Dorothy A. Betzler, Alma Elizabeth A. Bishop, Alfred Elden B. Blackburn, M. Alene A. Bliley, Clarence James A. Brewster, Albert James A. Cable, William Sanford B. Chamberlain, Gladys A. Cray, Edith Grace A. Derreb Donald Carlton B.	Women

Harry, J. GlenardB.	BWadsworth
Harry, J. GlenardB.	S Akron
Hawk, AdaA.	BAkron
Heckler, M. HowardB.	S Akron
Hawk, Ada	BAkron
Hess, Carl AdelbertA.	BAkron
Hilbish, W. RussellA.	BAkron
Hill, Clarence FaloonB.	S Akron
Hill, Clarence FaloonB. Huren, GenevieveA.	BCuvahoga Falls
Irish, Everett AB.	S Akron
Keating, Sara Florine	BAkron
Knowlton, Frank WA.	B. Akron
Lizawetsky, BessieA. McCormick, EdwardA.	BAkron
McCormick, EdwardA.	BAkron
Naugle, Jacob Vivian A. Purdy, Nellie L. B. Robart, Wilbur C. B.	BAkron
Purdy, Nellie LB.	S Akron
Robart, Wilbur CB.	S Akron
Ruch, Elden H. B.	S. Akron
Shank, Dorothy DA.	BAkron
Shank, Dorothy D	SBarberton
Spencer, Addison DeighA.	BAuburn, Ala.
Schweigl, Emilie MarieA.	BAkron
Switzer, Charles CarrollA.	BAkron
Waite, EvelynA.	B,Akron
Warren, Arthur HA.	BKingston, N. Y.
Williams, HollieB. Wooddell, FlorenceA.	SWilson, Kansas
Wooddell, FlorenceA.	BAkron
Woozley, FlorenceA.	BAkron
SENIORS IN A	BSENTIA
Combination Arts-Law Course with	Western Reserve University
	•
Hoelzer, C. Edward	Akron
Johnson, Henry B	Akron
Lawrence, Don St. Clair	Akron
Poulson, Carl W.	
	Total 48—Men 29
	Women 19
·	
JUNIOR CI	
Ackley, Ruth VirginiaA.	BAkron

Ackley, Ruth VirginiaA.	BAkron
Alspaugh, Ruth GwendolynA.	BCuyahoga Falls
Averell, Natalie EleanorA.	BAkron
Bordner, AdaA.	BAkron
Brant, Claude CarsonA.	BAkron
Breitenbucher, Jacques RB.	SFrance
Brown, Charles WilliamB.	S Akron
Brown, Ross CA.	B Salem
Brown, Ruth BlanchA.	BAkron
Bunts, Helen AgnesB.	S Akron
Cole, ElizabethA.	BNorwalk

Colley, Charles Harold	A.	В	Akron
Crews, Violet	A.		Akron
Dickerhoof, Ralph Franklin	A.	В	Akron
Dix, Lawrence B	B.	S	Akron
Emery, Edward Nowlen	B.	S	Akron
Enright, M. Francis	A.	В	Akron
Evans, Wesley Sterling		В	Akron
Frampton, Eulalia	A.	В	Akron
Grimm, Rhea Beyerle	A.	В	Akron
Hall, Robert Parc	A.	В	Akron
Hollingsworth, Esther	A.	В	Akron
Holsinger, Harris William			New Enterprise, Pa.
Hooley, Kenneth Raymond	B.	S.	Barberton
Hunt, Schuyler William			Akron
Hurwitz, Simon	Α.		Akron
Jenkins, Verlin	Α.		Akron
Johnson, Albert Hilmar	Α.		Akron
Klingensmith, Barclay Arthur	ΔΑ.		Akron
Kneale, F. Edna	ΛΑ.		Akron
Kniffin, Hazen G.	ΑΑ.		Stryker
Knoske, Mildred Kathryn	А.	D	Cuyahoga Falls
Krager, Lenore Ethel	Α,	ъ	Uyanoga Falis
Krager, Lenore Ethel	A.		Akron
Kraus, Edward Henry	В.		Akron
Kregenow, Edwin			Boston Mills
Kroeger, Clarence			Akron
Krotzer, Walter Farnham			Dunmore, Pa.
McChesney, Mark F.	A.		East Akron
MacKinnon, Wallace LeRoy			Akron
Mason, Ruth Elizabeth			Akron
Masterson, Kathleen			Akron
Miller, Raymond Clinton	A.		Akron
Miller, Rolland Snyder	A.		Kent
Minnich, Harold A.			Barberton
Morris, Irvin S.			Akron
Nice, Dora A.			Kenmore
Pierce, Lois Kepler	A.		Akron
Place, Pauline			Akron
Ports, Ruth			Akron
Purdy, John F.	A.		Akron
Quick, Ralph E.			Akron
Roush, Floris Carmene	A.		Akron
Rowley, John Grether	A.		Akron
Schrank, Harry	B.		Akron
Shaffer, Joshua Casper	В.		Antwerp
Shuman, Mary			Akron
Snyder, Catherine			Akron
Stevenson, Elizabeth	<u>A</u> .		Akron
Strottner, Leonard	В.		Akron
Stump, Carl M.			Akron
Suloff, John			Akron
Van Berg, Harry Nelson		В	Akron
Van Buskirk, Donovan L	,A.	В	Cuyahoga Falls

Werner, Paul E	B         Akron           B.         Akron           B.         Akron           B.         Akron	
A.	Total 68—Men Women	

#### SOPHOMORE CLASS

SOPHOMO	RE	CLASS	
Alexander, Carl	ъ.	S	Akron
Alexich, Frank			Akron
Auten, Russell G.	.A.		Akron
Baker, Deming Elmon	B.	S.	Akron
Baughman, Janet E.	.В.	Š	Akron
Baumgardner, Donald Mills	Α.	В	Akron
Bear, Irene			Akron
Blake, Estella	.A.		Akron
Bridgwater, Boyd Edwin	Α.	В	Cuyahoga Falls
Brode, George Philip		S	Kenmore
Brown, Betty	Α.		Akron
Brubaker, John Franklin	В.		Akron
Brueggeman, Walter M.			Akron
Buehl, Harold Lothman			Akron
Campbell, John Harold	Α.		Akron
Carey, Fern	Α.		Akron
Carman, Frank H.	B.		Barberton
Carnahan, Audra	Α.		Akron
Chapman, Myron E.	Α.	В.	Akron
Childs, Agnes Rose	Α.	В	Akron
Christ, Harding Simon	Α.	В	Akron
Cowan, Lester	Α.		Akron
Crawford, John Denniston	B.		Akron
Dunford, Esther Bessie	Α.	В.	Akron
DuPratt, Leola	Α.		Akron
Eberhard, Theodore Philip	Α.		Akron
Ellsworth, Charles Kail	Α.		Akron
Engwall, Conrad A.			Akron
Fanning, Margaret	Α.		Akron
Farlin, Mary Elizabeth	Α.		Akron
Figh Lole	B.		Akron
Fish, Lola	Α.		Akron
Frank Doris Margaret	Α.		Fairlawn
Frank, Doris MargaretFraser, James Edward	Α.		Akron
Gehres, Margaret	Α.		Akron
Gille, Grace	Α.		Akron
Gregg, Margaret Helen	Α.		Akron
Grigsby, Lewis Albert	В.		Akron
Hassenflue, Marjory	В.		Akron
Hay, George B.	A.		Akron
Heimbaugh, Harold M.	Ā.		Akron
Henry, Pauline	В.		Akron
mining, radino mining	-		VII

Himes, Barbara JaneA.		Akron
Hoss, Evelyn JosephineA.	В	Akron
Jenkins, Haves RavA.	В	Akron
Kalmon, MorrisB. Karam, AdibB.	<b>S.</b> .	Akron
Karam, AdibB.	<b>S.</b> .	Akron
Kraus, Rose MaryA.	В	Akron
Kuenzli, Dorothy SA.	$\mathbf{B}_{\cdot \cdot \cdot}$	Akron
Lager, JackB.	S	Akron
LeMaster, VirginiaA.	В	Akron
Leonhard, GladysA.		Akron
Lilliedale, MerwinA.		Akron
McCoy, States DB.		Akron
MacKinnon, John GB. McShaffrey, Regina AgnesA.	S	Akron
McShaffrey, Regina AgnesA.	В	Akron
Macrory, Eva RA.	В	Akron
Mahoney, Harry LeonardA.		Akron
Mason, Kenneth AA.		Akron
Matz, James WilliamA.	В	Akron
Melkus, Franklin WA.		Akron
Miller, Bernice MaeA.	В.	Ellet
Miller, NellieA.	В.	Uniontown
Moffatt, Ella VerneA.		Akron
Monegan, EstherA.		Akron
Mong, HaroldA.		Akron
Moskovitz, FredA.		Akron
Nelson, IrvinA.		Akron
Nieman, Helen EstherA.		Akron
Oatts, James DavidB.	S	Akron
Palmer, Alice	R.	Akron
Palmer, Alice	B	Akron
Paul, Winifred MaryA.	B	Akron
Pfeifle, Nola MarthaA.		Akron
Raasch, Virgil L.	B	Akron
Rahner, V. Clarence		Akron
Raynow, Anna KathrynA.	B.	Akron
Reichenstein, Selma BarbaraA.	ъ	Akron
Rhodenbaugh, Charles	B	Akron
Roberts, MildredA.		Akron
Rockwell, Theodore FA.		Akron
Saal, Mary ElizabethA.	B	Akron
Sanderson, Paul NicholasA.	B	Akron
Sapp, Celia E	B	Akron
Sarlson, Mary		Akron
Schachner, Harry AB.	g	Akron
Schmidt, Luella SophiaA.	D.	Akron
Shaffer, Raymond WillardB.	Q	Akron
Sheldon, Frank		Akron
Smith, K. Amelia		Clinton
Smith, Lula Henrietta	R.	Akron
Sneddon, Alexander	8	Akron
Snyder, James ErnestB.	S.	Akron
Snyder, James I	g.	Akron
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Snyder, Russell FieldB.	S Akron
Solomon, Joseph A.	B. Akron
Staub, AlexandreA.	BAkron
Staub, MiltonA.	BAkron
Steinmetz, JosephB.	S Akron
Stilwell, ClairA.	BAkron
Stover, HelenA.	BAkron
Taylor, George RB.	S Akron
Taylor, MargaretA.	BCuyahoga Falls
Thomas, Harry HallA.	BAkron
Thorn, Homer ZelleB.	S Akron
Tobin, Ruth MaryA.	BAkron
Tucker, Alice Griffin	BAkron
Walker, Elizabeth AA.	BAkron
Walker, Newport HughesA.	BAkron
Waltz, Ruth	BAkron
Warden, William FranklinA.	BAkron
Wells, Alton Revoe A. White, Ruth Y. A. Whitman, Anna Ruth A.	BAkron
White, Ruth YA.	BAkron
Whitman, Anna Ruth	BAkron
Wigley, Florence AgnesA.	BAkron
Williams, Frank CurtisA.	BCuyahoga Falls
Wise, Crile NicelyB. Yeomans, William HaneB.	S Akron
Yeomans, William HaneB.	SBarberton
	Total 118—Men 66
	Women 52
TO DOUM A M	CT. A SS

#### FRESHMAN CLASS

Allison, Ruth Virginia	
Alspaugh, Vivienne Irene	Cuyahoga Falls
Ault, Honor	Akron
Backderf, Ivan C.	Akron
Bankes, Willard Edwin	Akron
Beck, Gretchen	Akron
Bennett, Roy E.	Barberton
Black, Ethel May	Akron
Black. Trent	Akron
Blake, Laura	Akron
Boedicker, Howard R.	Akron
Boettler, Roy	Greentown
Bordner, Paul	Akron
Boyer, Carl	Akron
Brown, Enslen Charles	Akron
Brown, Margaret C.	Akron
Burger, Marie	Akron
Cahill, Louis J.	Akron
Cain, Frederic George	Akron
Campbell, Mary	Akron
Carnes, Norwood S.	Akron
Cauffield, Margaret	Akron
Chamberlain, James	Akron
Chevraux, E. Grace	Canton

Clarke, Edward J. O	Akron
Clemenger, Marguerite	Akron
Clemenger, Marguerite	Akron
Conger. Elizabeth	Peninsula
Conway, Alice Zita	Akron
Cookro, Rose Mary	Akron
Cowles, Bernice	Cuvahoga Falls
Cramer, Howard Irving	Cuvahoga Falls
Cranz, Laura Elizabeth	Everett
Crook Thelma Rauer	Akron
Crook, Thelma Bauer Curry, Herbert L.	Akron
Daugherty, Giles Francis	Akron
Davis, Frederick W.	Akron
Davis, Vernon Francis	Currehoge Fella
Davis, Vernon Francis	Cuyanoga rans
Denison, Kenneth Sweeny Dettling, Ted	Akron
Dettling, Ted	Akron
Dice, Miriam Elizabeth	Akron
Dickerhoof, Galen	Akron
Doran, Adeline Mary Doran, Dorothy Ann	Akron
Doran, Dorothy Ann	Akron
Dorris, Raymond Bascomb	Akron
Doup, Russell Harry	Akron
Doutt, Howard M	Akroa
Dunn, Mary Caritas	London
Edwards, Asa Luther	Rinard Mills
Eisenhart, Newton	Akron
Ellis Freds Lillian	Akron
Enright, Mary Adeline Etter, Evelyn	Akron
Etter, Evelyn	Akron
Evans, Robert William	A kron
Farrell, Joseph Dennis	Akron
Fearrington, Mildred M.	Akron
Fernsner, Hazel M.	Akron
Figenscher, Murray A.	Akron
Figenscher, Murray AFouse, Harlan	Akron
Fisher, John Samuel	Akron
Fitzpatrick, Edward	Akron
Fontaine, Russell B.	A kron
Forehand, Fletcher E.	Vienne Ge
Garrigues, L. Alice	Almon
George, Jay	Alren
Gilbert, Alice	Alren
Goldenberg, Meyer	Almon
Gordon, Meyer	Almon
Gordon, Meyer	AKTOII
Grim, Henry Earl	Stryker
Gruebele, Rose	Akron
Hackett, Paul	Akron
Hahn, Agnes E.	Akron
Hardy, Ruby Elizabeth	Cuyanoga Falls
Harris, Robert Foote	Akron
Hassenflue, Dorothy	Akron
Hasenohrl, Viktor	v ienna, Austria

Hatch, Thomas M., Jr. Hawkins, Helen Pauline Hinton, James	Akron
Hawkins, Helen Pauline	Akron
Hinton, James	Akron
Holloway, Mary Jeanette	Akron
Hopkins, Nita	Copley
Hornig, Frances E.	Akron
Hubbell, Cecile C.	Akron
Hummel, John H.	Akron
Hilton, James Holloway, Mary Jeanette Hopkins, Nita Hornig, Frances E. Hubbell, Cecile C. Hummel, John H. Imbrie, Mary Edna Irvin, Helen	Akron
Irvin, Helen	Akron
Irvin, Robert Theodore	Akron
James, Harry Leslie	Akron
Jackson William H	Akron
Johnson Joseph	Akron
Kauffman Kathryn	Akron
Konley Jack Johnston	Akron
Kinkada Buran Olnor	Tilinois
Irvin, Robert Theodore James, Harry Leslie Jackson, William H. Johnson, Joseph Kauffman, Kathryn Kepler, Jack Johnston Kinkade, Byron Kohr, Clay P. Koplin, Nathan Koyal Mary Rose	rochurg
Kolir, Clay F	Alexan
Kopiii, Nathan	Al
Koval, Mary Rose	
Kriii, Cari Emii	AKFOR
Larabee, Byron Hanly Laughlin, L. Ray Laumann, Paul H. Lawler, Doris Lebold, Vivian	Akron
Laughlin, L. Ray	Akron
Laumann, Paul H.	Akron
Lawler, Doris	Akron
Lebold, Vivian	Akron
Leggett, Mortimer Knowlson Liles, Susan	Akron
Liles, Susan	Akron
Lincoln, Mildred H. Littman, Joseph B. McMurray, L. Aileen Mackey, Thomas Maddock, Ruth Manes, Louis	Akron
Littman, Joseph B.	Akron
McMurray, L. Aileen	Akron
Mackey, Thomas	$\dots$ Akron
Maddock, RuthCuyahog	a Falls
Manes, Louis	Ak <b>r</b> on
Mason, Dorothy	Akron
Mason, Dorothy Medvin, Jeannette G.	Akron
Merriman, Celia Miller, Ernest L	Akron
Miller, Ernest L.	Akron
Miller. Ethel	Akron
Miller, James O.	Akron
Miller, James O. Minter, Irene	Akron
Mitchell, John Leonard	Akron
Moore Della Florence	Akron
Moore, Fred	Akron
Moore, Fred Morgenroth, Myron James Murvine, Everett F.	Akron
Murvine, Everett F.	Akron
Namton Sumnor Glann	Madina
Nicodemus, Alberta	Akron
Nighman Kenneth	Akron
Olmsted Elegnor	Akron
Oshorne Frances Marion	Akron
Nicodemus, Alberta Nighman, Kenneth Olmsted, Eleanor Osborne, Frances Marion Ormsby, Ross Royer	Akron
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D. W. T.	4.4
Palmer, Kathryn Julia	Akron
Pamplin, Robert Alan	Akron
Pfile, Max Elton	Ravenna
Pomeroy, Velma M.	Akron
Pontious, George	Akron
Purdy, Lottie	Akron
Racey, Edgar F.	. Caldwell
Racey, Edgar F. Reed, Margaret	Akron
Reinker, Leona	Akron
Rice, Waldron A	Akron
Richert. Paul	Kenmore
Riedinger, Mabel MaxineRitch, Angela	Akron
Ritch, Angela	Akron
Rodgers, Frances	Akron
Rogers, Harold G.	Akron
Roth, Allen S.	Akron
Ruch, Paul Elmer	Akron
Schaenzlin, Elizabeth Ruth	Akron
Shea, Eunice Josephine	Akron
Short Cheryl M.	Akron
Shreve, Dorothy J.	Akron
Shreve, Dorothy J. Sicherman, Karl Smedley, Cloyd W.	Akron
Smedley, Cloyd W.	Dalton
Sorrick, Charles H., Jr.	Akron
Sorrick, Charles H., Jr. Sours, B. O	Kenmore
Spanton, Margaret	Akron
Sparhawk, William T.	Akron
Stafford, Ruth Varian	Akron
Staley Leonora Mary	Akron
Stinaff Charles L	Akron
Stoneburner Karl Sims	Akron
Starr, Miriam Wilcox Staley, Leonora Mary Stinaff, Charles L. Stoneburner, Karl Sims Stuver, Bernice Subrin, Hyman Talley, Dwight Marshall	Akron
Subrin Hyman	Akron
Tolley Dwight Marshall	Akron
Tenney, Audra	Akron
Tonney Shirley J	Akron
Tenney, Shirley J. Terrass, Milford E.	Akron
Thomas, Harold	Abron
Tichenor, Alfred B.	Akron
Tobin, Katherine Ann	Akron
Triplett Earl Daily	Akron
Triplett, Earl Daily	Akron
Wagner Dorothy Edric	Rorherton
Wagner Francis A	Akron
Wagner, Francis A. Wagstaff, Donald Andrew	Akron
Waltz, Francis	Vodsworth
Weiler, Joseph	Rorhorton
Wells, Helen N.	Maggillon
Walls Winifred K	Aleson Mornios
Woltner Dornard U	Akren
Wells, Winifred K. Weltner, Bernard H. Werner, Mary Isabel	A bron
TOTALOI, MATY ISAUCI	

Whinem Madge M	
	A leman
Whigam, Madge M	AKTOH
Whitmore, Russell	Akron
Wilkinson, Raymond B.	.Akron
Williams, Marion Althea Windows, F. Earl	.Akron
Windows, F. Earl	Akron
Winer, Arthur Y.	.Akron
Woloch, George	.Akron
Wooddell, Mildred	Akron
Wright, Janette	.Akron
Wygant, Thelma Marie	
Total 190—	
	Women 84
IRREGULAR STUDENTS	
Appelman, Prudence Ann	Akron
Atkinson, Edna Fern Bradley, Ruth Julia Brown, Grace Copp, Louise Harwell, Edna Henrietta	Akron
Dadley Puth Tulic	Akron
Drawn Case	Alman
C T	Al-
Uopp, Louise	AKTON
Harwell, Edna Henrietta	AKTON
Kempel, Ernest J.	AKTON
Maugels, J. U	II, MIO.
Kempel, Ernest J.  Maugels, J. C.  Replogle, Helen Saeger  Kommunication Hanniba	enmore
Smith, Edward	Akron
Sorn, Mrs. William H.	
Total 11—	
	Women 8
	women 8
SPECIAL STUDENTS	
Calvert. May Garby	.Akron
Calvert. May Garby	.Akron
Calvert, May Garby	.Akron Imadge .Akron
Calvert, May Garby	.Akron lmadge .Akron .Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole. Lincoln	.Akron Imadge .Akron .Akron .Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine	.Akron Imadge .Akron .Akron .Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond Spyros K	Akron Imadge Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond Spyros K	Akron Imadge Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain. Anne	Akron Imadge Akron Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J.	Akron Imadge Akron Akron Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C. Jr.	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles Carlson Tall Calvert Tall Collins Tall Tall Tall Tall Tall Tall Tall Tal	Akron Imadge Akron Akron Akron Akron Akron Akron Imadge Akron Akron Akron Imade Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Imade Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel London, Samuel Rockwell Herbert Chapin	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Imade Akron Akron Akron Akron Akron Ilicothe Boston Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel London, Samuel Rockwell Herbert Chapin	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Imade Akron Akron Akron Akron Akron Ilicothe Boston Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie	Akron   madge   Akron   Akron
Calvert, May Garby Carlson, Joel Sebastian Tall Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie Scall Kathryn C.	Akron Imadge Akron Akron Akron Akron Akron Akron Imadge Akron Akron Akron Imadge Akron Imadge Akron Akron Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie Saal, Kathryn C. Snavely, Daisy Mae	Akron Imadge Akron Icothe Boston Akron gadore Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie Saal, Kathryn C. Snavely, Daisy Mae Wagner, Francis A.	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Akron Akron Icothe Boston Akron gadore Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie Saal, Kathryn C. Snavely, Daisy Mae Wagner, Francis A. Weaver, Howard L.	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Akron Akron Icothe Boston Akron gadore Akron Akron Akron Akron
Calvert, May Garby Carlson, Joel Sebastian Caudill, Mildred Coburn, Joseph Leo Cole, Lincoln Collins, Josephine Diamond, Spyros K. Espenhain, Anne Harwick, Curtis J. Haslett, Edwin C., Jr. Jones, Russell Charles London, Samuel Rockwell, Herbert Chapin Ruffner, Elwin T. Schell, Minnie Saal, Kathryn C. Snavely, Daisy Mae Wagner, Francis A.	Akron Imadge Akron Akron Akron Akron Akron Akron Akron Akron Akron Icothe Boston Akron gadore Akron Akron Akron Akron

#### COLLEGE OF ENGINEERING AND COMMERCE

#### DEPARTMENT OF ENGINEERING

- C. E.—Civil Engineering
  E. E.—Electrical Engineering
  I. E.—Industrial Engineering
  M. E.—Mechanical Engineering
  M. P.—Manufacturing Production

#### SENIOR CLASS

Couch, W. Robert	EChauncey
Heerlein, Joseph HubertM.	
Hoelzer, John TC.	
Hoffman, Lorin JM.	
Kalaugher, Arthur JosephM.	
Moehr, Louis H	EAkron
Munteanu, IonelM.	EAkron
Pike, KennethM.	ERavenna
Russ, Henry A	E. Wooster
Smith, Harold F	
Smith, Newman	
Teulings, R. LawrenceM.	
Thorp, Clarence WesleyM.	
Wagner, C. P	EMarshallville
	Total-Men 14

#### JUNIOR CLASS

Allaman, H. CE.	E.	Akron
Fletcher, Laurel Eugene	$\mathbf{E}$ .	Ravenna
Herbruck, Howard WillardM.	Ρ.	Akron
Myers, H. B		
Olson, Leland Alfred		
Singer, JamesE.	$\mathbf{E}$ .	Akron
St. John, Bertram	$\mathbf{E}$ .	Athol, Mass.
Straub, Harold M	E.	Akron
Thomas, W. HM.	$\mathbf{E}.$	Akron
Tiley, Ćlyde FoltzI.	$\mathbf{E}.$	Meridian, Miss.
VanHyning, Norman	$\mathbf{E}.$	Barberton
Vanica, Pearl R	Ρ.	Akron
Waggoner, Charles Theodore E.	$\mathbf{E}$ .	Akron
Wilson, Ross EllsworthE.		
,		Total-Men 14

#### PRE-JUNIOR CLASS

Barnholth, Marcus CM.	$\mathbf{E}$ .	Akron
Brooks, Earl F	$\mathbf{E}$ .	Akron
Cole, LesterM.		
Cooper, Ralph FenimoreE.	$\mathbf{E}.$	Akron
Furst, Herbert TE.	Ε.	Alliance
Glasheen, Francis DI.	E.	Athol, Mass

Glass, William John	E.	Akron
Harrington, F. TM.	$\mathbf{E}$ .	Akron
Johns, Frank JE.		
MacDonald, Levi AlexanderC.	E.	Athol, Mass
Michelson, Louis FM.	$\mathbf{E}$ .	Akron
Miller, Edmund Bruce	$\mathbf{E}.$	Akron
Moody, Dwight L	E.	Akron
Patterson, William GeorgeC.	$\mathbf{E}$ .	Akron
Salber, Eugene J	E.	Akron
VanBrimmer, Ralph MC.	E.	Delaware
White, Richard EI.	$\mathbf{E}.$	Akron
		Total_Men 17

#### SOPHOMORE CLASS

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Total—Men 34

#### FRESHMAN CLASS

Aylward, Prentiss	E.	$\mathbf{E}.$	Rockland, Me.
Allen, Dave B.	M.	$\mathbf{E}.$	Akron
Barbura, John	E.	$\mathbf{E}.$	Akron
Bartell, Russell	C.	$\mathbf{E}$ .	Akron
Bennett, Lee A.	М.	E.	Capac, Mich.
Boerngen, Clyde	М.	E.	Canton
Braley, William LoMoyne	C.	E.	Akron
Burgan, Kenneth E.	E	E.	Cuvehoga Fells
Copp, Charles F.	М	E	Akron
Cramer, Kenneth P.	т.	E.	Akron
Cunningham, Cecil		E.	Akron
Damon, Donald		E	Gerry, N. Y.
Daria Varrath E	VL.	Te.	Akron
Davis, Kenneth F.			Akron
Eister, Ward	М.		
Fletcher, C. Harry		E.	Akron
Fletcher, Paul E Fulton, Harold		E.	Akron
Fulton, Harold	М.	E.	Kenton
Green, Joel			Akron
Greenwald, Russell	E.	$\mathbf{E}.$	Akron
Guillod, William Hahn, C. Harold		$\mathbf{E}.$	Canton
Hahn, C. Harold	E.	$\mathbf{E}_{\cdot}$	Akron
Hampp, Paul G	I.	$\mathbf{E}$ .	Barberton
Hanson, Earl	E.	$\mathbf{E}.$	Akron
Hanson, Frank	М.	$\mathbf{E}.$	Akron
Hexamer, Homer L.	E.	$\mathbf{E}.$	Canton
Hitchcock, Rowland		$\mathbf{E}$ .	Cuyahoga Falls
Hufler, J. Peter	Е.	E.	Canton
King, Glen Lester	M.	E.	Dresden
Krichbaum, David N.	M.	Ē.	Canton
Levy, Hyman	E		Akron
Luff, Wayne			Kent
McCoy, James W.			Kent
			Canton
Motter, Lawrence Mulcahy, David L		E).	
Mulcany, David L		ъ.	Akron
Newhall, Clifton	0.	ъ. Б	Akron
Nye, Norman H.	M.	E.	Cadillac, Mich.
Painter, Frank			Cleveland
Qualters, Richard Leo	ī.		Athol, Mass
Rhodes, Frank			Darlington, S. C.
Richert, Carl R	<u>T</u> .		Akron
Sanburn, Stanley	<u>I</u> .		Akron
Schafer, Joseph Edward		$\mathbf{E}$ .	Akron
Schmucker, Leroy	E.	$\mathbf{E}.$	Stryker
Schultz, Lloyd Harold		$\mathbf{E}.$	Akron
Shaffer, Lee Jay	Е.	$\mathbf{E}.$	Akron
Shriver, Paul J.	E.	$\mathbf{E}.$	Akron
Spaght, Harold	E.	$\mathbf{E}$ .	Cuyahoga Falls
Starr, Troy S	E.	$\mathbf{E}.$	Gerry, N. Y.
Stewart, Thomas	М.	Ε.	Rockland, Me
Taylor, Lloyd A	C.	E.	Ákron
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Taylor, Lawrence H	Ε.	Akron
Thomas, William LeroyI.	E.	Akron
Thorp, Carl JM.	E	Paranna
Waring, Marland DavidE.		
waring, Mariand DavidE.	E.	Akron
Whittle, Charles EdgertonC.	E.	Brunswick, Ga
Williams, Russell Harry	Ε.	Ákron
Wiseman, MatthewE.	Ε.	Akron
Wisok, Samuel RE.	E.	Akron
Worthen, Samuel KeithE.	E	Barberton
" of thon, came of facility		Total—Men 59
SPECIAL	STU	DENTS
Bunta, JohnM.		
O. Albert M.	E.	
Cora, Albert M. E.	19.	Koumania 🕆
Ferbstein, S. J	E.	Akron
Hanna, ÉdwardE.	$\mathbf{E}.$	Akron
Heaton, Samuel BeldenI.	$\mathbf{E}$ .	Akron
Howe, F. DonaldE.	E.	Kent
Jackson, Wallace NM.	E	Akron
Kehrle, Floyd JE.	T.	Almon
Kenrie, Floyd 5E.	Ω.	AKTOH
Martin, C. J	15,	Akron
Lord, Roger	Ε.	Jersey City, N. J.
Robinson, John EverettE.	Ε,	Akron
•		Total—Men 11
DEPARTMENT (	$\mathbf{or}$	COMMERCE
COTTOR	~	A 55
SENIOR		
Cook, Theodore Louis		Akron
Hartzell, Elmer William		Akron
Hitchcock, James McNeil		New Rochelle, N. V.
Leffler, Carl P.		Akron
Porter, Nelson W.	•••••	Almon
Pouchot, Helen		AKTOH
rouchot, neien	•••••	Akron
Robb, William Joseph		Akron
IN ABS	EN	TT A
Combination Arts-Law Course wi	ith	Western Reserve University.
Wilt, Roy W		Kenmore
		Total 8-Men 7
		Women 1
JUNIOR	CT.	
Abbott, Paul M		Akron
Bachman, Anthony G.		Akron
Hutchison, John Edward		Akron
Millar, James A.		Akron
Newsom, Philip		Louisville. Miss.
Rauschenberger, M. Fred		Akron
Steel, Raymond J.		A brow
Stevens, Paul		Fairmount W W
Chillerell Desay William		rairmount, w. va.
Stillwell, Byron William		Akron
Willyard, Eldrid		
		Total 10—Men 10

SOPHOMORE CLASS			
Auld, James HarveyBarnholth, Thelma	New	Wilmington	
Barnholth Thelms		Akron	
Cadden, Dorothy		Akron	
Chambers, Arthur		Akron	
Failor, Ralph John		Akron	
Firick, Frederick William		Akron	
Uallan Loopand		Wodaworth	
Hayden, Walter Henry Kirn, Katherine R. Kreiselman, Benjamin Lansinger, Howard R. McDougald, Martha		Akron	
Kirn. Katherine R.		Akron	
Kreiselman Benjamin		Akron	
Lansinger Howard R.		Akron	
McDongald Martha		Akron	
Miller, S. Philip		Akron	
Minnick Helen Anna		Akron	
Minnick, Helen Anna Pattie, John Russell		Akron	
Pfeifle Earl Chester		Akron	
Pfeifle, Earl Chester Schultz, Esther Helen		Akron	
Smith Ralph Krochle		A kron	
Spessord Dwight Sawyer		Akron	
Illrich Albert I	••••••••	Akron	
Spessard, Dwight Sawyer Ulrich, Albert J. Werner, Albert Richard		Akron	
Weiner, mibert menard	Total	21—Men	15
	IUIA	Women	
FRESHMAN CLASS		Wolfield	U
FRESHMAN CLASS			
Baker, Russell		Akron	
Baker, Russell	······	Akron Akron	
Baker, Russell Burge, Dorothy Carroll, John		Akron Akron Akron	
Baker, Russell Burge, Dorothy Carroll, John Collins, Hazel		Akron Akron Akron Akron Akron	
Burge, Dorothy		Akron Akron Akron Parkersburg	
Burge, Dorothy		Akron Akron Akron Parkersburg	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John		Akron Akron Akron Akron Parkersburg Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler. James		Akron Akron Akron Parkersburg Akron Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler. James		Akron Akron Akron Parkersburg Akron Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin	Cuy	Akron Akron Akron Parkersburg Akron Akron Akron Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin	Cuy	Akron Akron Akron Parkersburg Akron Akron Akron Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth	Cuy	Akron Akron Akron Parkersburg Akron Akron Akron ahoga Falls Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion	Cuy	Akron Akron Akron Parkersburg Akron Akron Akron Akron Akron Akron Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert Fisher, Warren Leonard	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E.	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham Earl	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham Earl	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington Russell Paul	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph Hester, Lotha W.	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Hizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph Hester, Lotha W. Humphrey, Evelyn	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Hizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph Hester, Lotha W. Humphrey, Evelyn	Cuy	Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Cygene, Mary Elizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Buth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph Hester, Lotha W. Humphrey, Evelyn Johnson, Arthur Hanley Johnson, Raymond Ross	Cuy	Akron Akron Akron Parkersburg Akron	
Burge, Dorothy Carroll, John Collins, Hazel Cook, Daniel N. Cooper, Herbert L. Crowther, James John Cutler, James Hizabeth Denning, Eugene Benjamin Deutchman, Samuel Dorn, Ruth Elliott, Marion Fickes, Robert Fisher, Warren Leonard Gower, Mason E. Graham, Earl Hagenbaugh, Robert Frederick Harrington, Russell Paul Herberich, Richard Hertzler, Ralph Hester, Lotha W. Humphrey, Evelyn	Cuy	Akron Akron Akron Parkersburg Akron	

Miller, Harold Leroy Miller, Ruth Milliken, Robert Condon Myers, Edward Theodore Nicora, John Queen, Herman Bernard Ragor Ralph Eugene	Cuyahoga Falls
Miller, Ruth	Akron
Milliken, Robert Condon	Dixon, Ill.
Myers, Edward Theodore	Akron
Nicora, John	Akron
Queen, Herman Bernard	Ashland
Rasor, Ralph Eugene	Akron
Rasor, Ralph Eugene	Akron
Riblett. Dorothy Mildred	Akron
Rose, Martin James Roth, Norbert M	Akron
Roth, Norbert M.	Akron
Ruffner, Paul	Pleasantville
Russell, Mildred Cecilia	Akron
Rutherford, Meredith W	Akron
Rutherford, Robert J.	Akron
Rutledge, Alva	Hibbetts
Ryan, Earl	Cuvahoga Falls
Schoch, Joseph	Akron
Semler, Helen	Akron
Shaffer, J. Harry	Akron
Shinn, Herbert S	Passaic, N. J.
Short, L. Roger	Akron
Smith, Jean Smith, John Cowisher	Akron
Smith, John Cowisher	Everett
Solomon, William	Akron
Stack, James Edward Stebbins, Thomas Atkinson	Garrett, Ind
Stebbins, Thomas Atkinson	Ákron
Steel, Francis E. Swigart, Ernest Elbert Vogt, Albert E.	Akron
Swigart, Ernest Elbert	Akron
Vogt, Albert E.	Akron
Warra Frank	Akron
Wetzel, George Wood, Athel W. Wood, Russell George	Akron
Wood, Athel W.	Cuyahoga Falls
Wood, Russell George	Akron
Zahniser, Russell	Akron
,	Total 61-Men 51
	Women 10
SPECIAL STUDENTS	
Detweiler, Milo	Akron
Esselburn, Paul Taylor	Akron
Gill, Paul W.	Almon
GIII, Faul W	AKTUII
McKee, Elliott Roscoe	
May, Raymond A	
Oldham, Rowland Edwin	
Whalen, Louis George	
Young, Louis Frederick	
	Total 8—Men 8

### CURTIS SCHOOL OF HOME ECONOMICS

#### SENIOR CLASS

Arenson, Bertha	Akron
Braley, Eloise York	Akron
Cauffield, Doris Rachel	Akron
Garrett, Margaret Lydia	Akron
Hillman, Carolyn Louise	Akron
Hoover, Frances Alice	Akron
Keck, Olive	Akron
Thomas, Mildred	Akron
Thomas, tendred	Total 8
	10021
JUNIOR CLASS	
Averell, Helen Fulton	Akron
Bailet. Esther	Akron
Hallinan, Dorothy Grace	Akron
Kolbe, Lydia Voris	Akron
Pfahl, Hilda	Akron
Roth, Cordelia	Akron
Urpman, Helena M.	Akron
0-pada, 201024 121	Total 7
CONTRACTOR OF A CO	
SOPHOMORE CLASS	
Averell, Marjorie	Akron
Bachtel, Harriet Elizabeth	Akron
Bachtel, Harriet Elizabeth Belden, Mary A. Blaire, Mary Lillian	Akron
Blaire, Mary Lillian	Akron
Dettling, Genevieve	Akron
Dettling, Vivienne	Akron
Hanawalt, Virginia	Akron
Hanson, Helen	Akron
Houston, Margaret	Akron
Jones, Edna	Akron
Rhoades, Jessie Anna	Akron
Stallknecht, Dorothy Emma	Akron
Teeple, Kathryn Susan	Akron
Wilkinson, Sara Burke	Akron
Zerbe, Mary Elizabeth	Akron
, ·	Total 15
FRESHMAN CLASS	
Beyer, PearlBittaker, Agnes	Akron
Rittoker Agnes	Akron
Dannemiller, Helen E.	Akron
Eberle, Dorothy Mae	Akron
Everhart, Helen	Akron
Glass, Wilma Pauline	Akron
Hollinger, Ruth Minerva	Akron
Hubbard, Audree	Akron

242	REGISTER	
Hunsicker, Edna	Akron	
Minner, Leah	Akron	
Peck. Dorothy Gladys	Kent	
Peters, Viola A.	Akron	
Shaw Florence	Akron	
Smith Virginia Agnes	Gillette, Wyoming	
Snook Trans	Cuyahoga Falls	
onoug, fronc		15
SPE	CIAL STUDENTS	
Hanavar Calia	Akron	
Tohnson Wolon	Akron	
Moraball Mrs Cocile M	Akron	
marshan, mrs. Occile m	Total	3
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TEAC	HERS COLLEGE	
<del></del>	UATE STUDENTS	
Carson, Kathleen Cleland	Akron	
B. S., Muskingum Coll	ege	
Chahman Josephine A	Akron	
A. B., University of A	kron	
D T C Illustrated to of	Tllingia	
Example Holon	Wadawarth	
A D Haidalbarg Univ	Wadsworth versity Kenmore kron	
Wander Arthur	Kenmore	
D Q University of A	been to the second seco	
Grane Alice T.	kron Akron	
A. B., University of A	kron	
Laland Marina	Akron	
A. B., University of A	lron	
March Dorothy Lillian	Akron	
A. B., University of A	less.	
Detheck More Tone	Akron	
A. B., University of A	leson ARION	
A. D., University of A	Alexan	
Santom, Baidwin	Al	
Cable as band Walter H	Akron	
Schlagenhaur, Walter H.	AKPON	
A. B., Washington Uni	Akron Akron Akron iversity	
B. S., University of A	kron	
Spaulding, Irving N	kron Akron	
A. B., University of C	alifornia	
Thesing, Anna Mary	Barberton	
A. B., University of A	Kron .	
wagner, Anna	Akron	
A. B., University of A	Lkron Akron	
B. S., University of A	AKFOR	
B. S., University of A	Total 15—Men	5
	10001 10 11011	-

Total 15—Men 5 Women 10

#### SENTOR CLASS

SENIOR CLASS	
Barnes, Elizabeth	Akron
Pornackar Holon	Akron
Fornecker, Helen Jellison, Horace M.	Akron
Love, Neva Charline	Akron
Moore, Caroline L	Akron
Olin, Haleyon	Akron
Triplett, Dorothy	Akron
Vandersall, Clara E.	Kenmore
vanueisan, Olara 11	Total 8—Men 1
•	Women 7
	Women
JUNIOR CLASS	
Camehl, Ruth Marie Deckard, Huldah Denison, Mildred Derrig, Dorothae Freas, Nina	Kent
Deckard, Huldah	Akron
Denison, Mildred	Akron
Derrig. Dorothae	Akron
Freas, Nina	Akron
Fricker, Agnes M.	Akron
Fricker, Agnes M. Frost, Mareta Elizabeth Hamilton, Helen Beatrice	Akron
Hamilton, Helen Beatrice	Akron
Hickox Kuth	Barberton
Hipkins, Harriet Spalding Lind, Esther Mildred Mearig, John Frederick	Akron
Lind. Esther Mildred	Akron
Mearig. John Frederick	Akron
Newbauer. Mareta	Akron
Newbauer, Mareta	Akron
Newbauer, Mareta Pfeifle, Bessie	Akron Ak <b>ron</b>
Newbauer, Mareta	Akron Ak <b>ron</b>
Newbauer, Mareta Pfeifle, Bessie	Akron Ak <b>ron</b> Akron
Newbauer, Mareta Pfeifle, Bessie	AkronAkronAkron Total 15—Men
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer SOPHOMORE CLASS	Akron Akron  Akron  Total 15—Men  Women 14
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene	Akron Akron  Akron  Total 15—Men  Women 14
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw Eather Jane	Akron Akron Total 15—Men Women 14  Akron Akron Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw Eather Jane	Akron Akron Total 15—Men Women 14  Akron Akron Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw Eather Jane	Akron Akron Total 15—Men Women 14  Akron Akron Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw Eather Jane	Akron Akron Total 15—Men Women 14  Akron Akron Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May	Akron Akron  Total 15—Men Women 14  Akron  Akron  Akron  Akron  Akron  Cuyahoga Patlas
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May	Akron Akron  Total 15—Men Women 14  Akron  Akron  Akron  Akron  Akron  Cuyahoga Parlas
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May	Akron Akron  Total 15—Men Women 14  Akron  Akron  Akron  Akron  Akron  Cuyahoga Parlas
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May	Akron Akron  Total 15—Men Women 14  Akron  Akron  Akron  Akron  Akron  Cuyahoga Parlas
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May	Akron Akron  Total 15—Men Women 14  Akron  Akron  Akron  Akron  Akron  Cuyahoga Parlas
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson	Akron Akron Akron  Akron  Total 15—Men Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Haves, Lois Jeanette	Akron Akron Akron Total 15—Men Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Haves, Lois Jeanette	Akron Akron Akron Total 15—Men Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Hayes, Lois Jeanette Heilman, Loretta Honeywell, Nina	Akron Akron Akron Akron Total 15—Men Women 14  Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Hayes, Lois Jeanette Heilman, Loretta Honeywell, Nina Jurgens, Leona J.	Akron Akron Akron Akron Total 15—Men Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Hayes, Lois Jeanette Heilman, Loretta Honeywell, Nina Jurgens, Leona J. Lilliedale, Garnett	Akron Akron Akron Akron Total 15—Men Women 14  Akron
Newbauer, Mareta Pfeifle, Bessie Randall, Gahnelle Shaffer  SOPHOMORE CLASS  Brubaker, Irene Chestutt, Florence Truman Crankshaw, Esther Jane Cunningham, Lillian Davidson, Dorothy Davies, Helen May Frank, Clara French, Josephine Barber Frew, Mildred Elizabeth Griffiths, Irene Gruebele, Mildred Jane Handley, Ada Williamson Hayes, Lois Jeanette Heilman, Loretta Honeywell, Nina Jurgens, Leona J.	Akron Akron Akron Akron Total 15—Men Women 14  Akron

McCullough, Carmetta Mercedes	Akron
McMillen, Neva Elizabeth	Akron
McNeil, Lois A	Barberton
Miller, Helen	Akron
Minns, Eloise M.	Akron
Moodié, Hilda A.	Akron
Morton, Doris	Akron
Norton, Bess	Lodi
Parker, Marilla	Kenmore
Pollock, Kathleen	Akron
Raison, Malissa	
Riblett, Leila	
Sanderson, Margaret	
Scott, John B	
Smith, Leona E	
Staver, Radna L	Akron
Ulrich, Anna	
VanBerg, Marie	Akron
Waltz, Alberta Elizabeth	Wadsworth
Wiggins, Ola Faucett	Akron
Wilcox, Virginia	Akron
Zink, Margaret	Akron
•	Total 40-Men 1
	Women 39
-	
FRESHMAN CLASS	
Agniel, Rosamond	Akron
Bachman, Frances	Akron

Agniel, Rosamond	Akron
Bachman, Frances	Akron
Barber, Dorothea	Ak <b>r</b> on
Barrett, Dorothy	Akron
Beckwith, Katharine Virginia	Akron
Brensinger, Constance	
Carroll, Gladys	
Danbach, Nita	
Diehl, Lottie	
Ellis, Anna	Akron
Engwall. Ebba	Akron
Fassnacht, Ruth	Akron
Friedman, Ruth H.	Akron
Fulton, Margaret	Akron
Furbay, Nora	Akron
Grigsby, Lona Teel	Akron
Grigsby, Lona Teel	Akron
Herbig, Weltha Margaret	Akron
Houchin, Cecile	
Lanigan, Dorothy	Barberton
Lantz, Kathryn	Akron
Larson, Jennie	
McCue, Grace	Akron
Mattingly, Ruth Meier, Pearl	Akron
Meier, Pearl	Akron

Miller Driede	A lenon
Miller, Frieda	A lama —
Mosier, Roy D.	
Olmsted, Bernice	Akron
Orin, Pauline	
Palmer, Ruth	Akron
Phillips, Roberta A.	
Quigley, Gwendolyn	Akron
Richards, Edith	Akron
Rothschild, Frances	Akron
Shaffer, Marie Beulah	Akron
Simmons, Dorothy	Akron
Small, Jessie	Akron
Strole, Helen Grace	Akron
Sutliff, Ruth	Akron
Tanner, Margaret	Akron
Tubaugh, Dorothy	Akron
VanBerg, Helen	
Vechter, Mary	Turtle Creek
Upstill, Helen	Akron
Welch, Marjorie Marie	Kenmore
Williams, Mabel	Akron
Wilson, Margaret Isabella	Akron
Winters, Fern	Akron
Witz, Jeanette Frances	Akron
Wyant Margaret	Akron
Wyant, Margaret	Cuvahoga Falls
, , , , , , , , , , , , , , , , , , ,	-
	Total 51—Men 1
	Women 50
•	
SPECIAL	

#### SUMMARY OF STUDENTS IN DAY CLASSES

#### BUCHTEL COLLEGE OF LIBERAL ARTS

	$\mathbf{Men}$	Women	Total
Graduate Students	8	2	10
Seniors	29	19	48
Juniors	42	26	68
Sophomores	· 66	52	118
Freshmen	106	84	190
Irregular	3	8	11
Special	12	7	19
	266	100	464

#### COLLEGE OF ENGINEERING AND COMMERCE

	$\mathbf{Men}$	$\mathbf{Women}$	Total
Seniors	21	1	22
Juniors	24		24
Pre-Juniors	17		17
Sophomores	49	6	55
Freshmen	110	10	120
Special	19		19
_	940	17	957

Engineering students 149; Commerce students 108.

#### CURTIS SCHOOL OF HOME ECONOMICS

	$\mathbf{Men}$	Women	Total
Seniors		8	8
Juniors		7 .	7
Sophomores		15	15
Freshmen		15	15
Special		3	3
<del>-</del>			
		40	10

#### TEACHERS COLLEGE

	Men	Women	Total
Graduate Students	5	10	15
Seniors	1	7	8
Juniors	1	14	15
Sophomores	1	39	40
Freshmen	1	50	51
Special	1		1
	10	120	130

#### **EVENING SESSION**

Abendshine, Irene Agniel, Rosamond Ahern, Mary Rose Albrecht, Althea F. Alderton, Mary Allen, Margaret J. Allman, Geo. J., Jr. Ambelang, Jos. L. Ambelang, Ursula R. Amos. Jennie Allman, Geo. J., Jr.
Ambelang, Jos. L.
Ambelang, Jos. L.
Ambelang, Jos. L.
Ambos, Jennie
Aguirre, Frank
Anten, C. E.
Arenson, Anne
Armstrong, Violet J.
Arnold, Victoria
Ast, Robert D.
Atkins, Paul
Atkinson, Edna F.
Auld, James H.
Auten, Emery C.
Averell, Helen F.
Averell, Marjorie
Ayres, Beatrice Granvill
Babcock, Mabel Julia
Baer, Harriet
Baker, S. P.
Baker, Garnet
Baker, J. F.
Baldwin, Yvonne M.
Baker, J. F.
Baldwin, Yvonne M.
Barber, Marjorie
Ballard, Beess I.
Ballard, Beess I.
Ballard, Florence M.
Barber, Clara
Barber, Marjon W.
Barry, Frances H.
Barnhardt, Jane L.
Barker, Clara
Barber, Susannah Mabel
Barnes, Elizabeth
Baskin, Fern S.
Barth, Edwin E.
Baner, Geo. Cross
Baughman, Paul O.
Barschinger, Mrs.
Bayes, Florence M.
Back, Anna Mabel
Beck, Emma
Beck, Elizabeth Mary
Beebe, Leslie F.
Beery, Lawrence A. Beck, Elizabeth Mai Beebe, Leslie F. Beery, Lawrence A. Belden, Don A. Bell, Catharine Bell, Elmer Thomas Bell, Elmer Thomas Berger, June Berry, Forrest W. Betson, Emma Bettes, Lulah Betzler, Alma Beverly, Mase D. Bey, Albert P. Bigler, William H.

Bishop, Walter M. Bisnop, watter M.
Bisnette, Mrs. Lyda
Black, Margaret
Black, Margaret
Black, Malter H.
Blair, Alice V.
Blevins, Leonard A.
Bliley, Clarence J.
Bliss, Mrs. Nettie
Bloom, Sadie
Bloom, Sadie
Blower, Wm. Geo.
Bockstahler, Cora
Boehringer, Carl W.
Boland, Nelly
Boosinger, Laura I.
Boots, Glenn Lewis
Bope, Julia Thurston
Boss, Mabel
Botimer, Walter Thomas
Botzum, Lida
Bourne, Margaret Gibbs
Bower, Orpha
Bowling, W. D.
Bowman, Margaret Eleanore
Boylan, Dorothy M.
Boyles, Emery Gilmore
Bradley, Francis
Bradley, Francis
Bradley, Fauth Julia
Braley, Geraldine V.
Braley, Marguerite
Brassemie, Robert M.
Braverman, Mrs. Dora
Brecht, Ethel
Brenn, Marie Caroline
Brennan, Arthur D.
Brennan, Ralph E.
Brennan, Ralph E.
Brewster, Albert J.
Bricker, Frances
Brewster, Albert J.
Bricker, Frances
Brickwede, J. C.
Bridgwater, Jessie G.
Brindley, Ella
Broot, Earl E.
Brown, Grace
Brown, Nell
Brown, Nell
Brown, Mrs. W. K.
Burgoon, Williard Trego
Burgoon, Mrs. Frances
Bruederlein, Rilla M.
Bumgarner, Earl Richard
Bryers, Arthur Kilmer
Burke, Monroe M.
Burket, Margaret

Burkhart, Mrs. Nellie K. Burkmann, Ann
Burroughs, Mrs. Ralph
Burton, Walter E.
Buswell, Nellie
Butler, H. O.
Butler, A. S.
Buzzard, Daniel R.
Byrd, Madge
Cable, Rena Nancy
Cain, Wayne R.
Callow, Harriet T.
Calnon, Irene
Camehl, Ruth
Campbell, Arabelle
Cannon, Emma B.
Cannon, John O.
Cantrell, William Ernest
Cardarelli, Josephine
Carmichael, Frances M.
Carman, Fannie
Carnan, Fannie
Carnan, Bennie
Carter, George S.
Carcoll, Gladys
Carter, Mrs. Oora M.
Cassey, Charles T.
Casselberry, Jewel J.
Caswall, Katherine B.
Cassell, Katherine B.
Cassell, Hattie
Caudil, H.
Caudill, Hattie
Chalfant, Anna Bella
Chamberlain, Georgia E.
Chandler, L. N.
Chestnutt, Valette
Chestnutt, Valette
Chestnutt, Valette
Chestnutt, Valette
Chestnutt, Valette
Chestnutt, Valette
Chestnutt, Certrude H.
Clark, A. Merle
Clark, Evelyn
Clark, Gertrude H.
Clark, A. Merle
Clerk, Evelyn
Clark, Maurice LaVerne
Clemment, Genevieve
Clemment, Genevieve
Clemmenson, Edwin M.
Close, Carl D.
Cohen, Zelda
Coker, J. R.
Cole, H. B.
Colman, Grace
Conklin, Mattie V.
Conley, Mary
Conley, Ma

Cozard, Edns
Craft, A. Crayton
Crane, Dorothy M.Cribbs, H. Walter
Crawford, M. Lee
Crichton, Gordon R.
Crofford. M. Josephine
Croft, Nellie E.
Crosby, Blanche R.
Cross, John P.
Crispin, Frederica
Cross, John P.
Crispin, Frederica
Cross, Roy H.
Crouse, Irene L.
Cully, Lucille Margaret
Cummins, Jane
Curry, Herbert LaVere
Curtis, Geo. H.
Daily, Helen E.
Dales, Lotta E.
Daily, A. D.
Dalton, Forrest Paul
Danforth, Florence
Danzig, Louis
Dambach, Mary E.
Darragh, Charlotte S.
Davidson, Agnes I.
Davies, Carrie L.
Davis, Carles
Davis, Charles
Davis, Margaret Ann
Davis, Edward W.
Davis, Gertrude
Davis, Ralph Charles
Davison, Mrs. M. Elizabeth
Davison, Mrs. M. Elizabeth
Davison, Mrs. M. Elizabeth
Deckard, Mrs. Huldah
Decker, Margaret
Denning, Murl D.
Derer, Gustav
Derrig, Dorothae
Denning, Murl D.
Derer, Gustav
Derrig, Dorothae
Denny, Beulah
Derr, Lena P.
Deuber, Ivah
Dickerhoof, Anna
Dickinson, Elizabeth G.
Dillehay, Albert J.
Diller, Goldie M.
Dittemore, Mrs. James
Di Mascio, Dolores
Dimmette, Chas. L.
Dimmette, Celia Margaret
Dimeen, Mabel A.
Dickon, Mayme Bingham
Dixon, Fahy C.
Driscoll, Kathryn
Drury, E. Faye
Duffy, Elizabeth M.
Dunbar, Edith Sara.
Dunckley, Sarah E.
Duffield, Wilma
Dunn, Emma
Duplex, Emma Edna
Durr, Dr.

Dutt, Andrew
Dysle, Georgia Grass
Ebbert, Helen K.
Eberly, J. Clyde
Eckert, Clara A.
Crement, Lloyd LeRoy
Edwards. David L.
Effinger, Emma
Eiler, Fred
Elbert, Arnold Carruth
Elliott, Emilie O.
Ellis, Marie
Ellis, Marie
Ellis, Sheliday David
Elson, Harry A.
Elwood, Mary Ruth
Emde, John M.
Emde, John M.
Emde, John M.
Emde, Francis L.
Ervin, Berchal
Ervin, Lillian
Etling, Harold H.
Eulitt, Roy O. Ervin, Lillian
Etling, Harold H.
Eulitt, Boy O.
Evans, Helen Lowman
Evans, L. C.
Evans, Mrs. D. R.
Failor, Ralph J.
Fairall. L. Leroy
Farr, Alvira
Farver, Warren L.
Fasnacht, Marry
Feeley, Charles Anthony
Feeley, Frances Hershey
Feisler, Percy
Fellows, Mabel
Fenton, Mabel A.
Fetterman, R. C.
Fisher, Perry Niles
Fiegley, Alice
Filing, Peter
Finch, Evea
Findley, Lorens Belle
Firey, Miton J.
Fisher, Nellie D.
Fitzgerald, Mrs. Edna Jane
Fitzgerald, Mrs. Helene
Fitzgerald, Mrs.
Fletcher, Laurel Eugene
Fletcher, Mandolm
Flint, Roy M.
Flower, Malcolm

Frase, Alice
Frase, Mabel
Frater, Lulu L.
Frease, Martha Ethel
Frease, Martha Ethel
Freeder, Abraham
French, Charles W.
French, Charles W.
French, Josephine Barber
Freeman, S. B.
Fricker, Helen
Friess, Pauline, J.
Frisbly, W. J.
Fritschle, Ella
Fuller, May L.
Fulmer, Elmer Roy
Fuller, May L.
Fulmer, Elmer Roy
Fuller, May L.
Funk, James W.
Fussell, Philip K.
Futon, Robyn W.
Fynn, Robert
Gabriel, Clement G.
Gallogly, Mary L.
Gardner, Mary I.
Gardner, Mary I.
Gardner, Mary Isabel
Ganity, Daisy E.
Garman, Herbert
Gault, Erwin Clarence
George, Blanche
Gerson, James
Geretson, Richard H.
Ghern, Mary Rose
Gibbs, Frances M.
Gibson, George L.
Gilbride, Rose M.
Gilchrist, Ida J.
Gilgen, Anna
Gingery, Vernon H.
Giroux, Rachel M.
Gladwin, Neonetta
Glass, Violet Elizabeth
Glasheen, Francis D.
Goodman, Samuel L.
Gordon, Julia
Gorman, Gertrude
Gower, Mason
Gracey, Frank Boyd
Graf, Lottie E.
Graham, Luella
Graham, Luella
Graham, Wilda T.
Grant, Robert C.
Graves, Martha Virginia
Gravesmuehl, Alvin
Green, Carrie L.
Green, Alice Lacy
Greene, A. T.
Greenwood, Morton S.
Gregory, Lucy Irene
Gresham, Joseph E.
Grifiths, Helen M.
Griffiths, C. F.
Griffiths, Irene M.
Griffiths, Irene M.
Griffiths, Irene M.
Griffiths, Mayme
Grigsby, Marie Belle

Grubb, E. E.
Grueble, Mildred
Gruebele, Edna
Gudikunst, Earl G.
Gruhler, Walter
Gwaltney, Mande
Haas, Harold G.
Haas, Harriette E.
Haas, Hazel M.
Haberkost, Florence LaVere
Hackathorn, Ethyl Gertrude
Hackett, W. Lawrence
Hagen, Hans J.
Haibel, John
Hakes, Lloyd A.
Hall, Lillie K.
Hall, Mrs. Beulah
Hall, Lettita J.
Hall, Mrs. Grace
Hallinan, Dorothy Grace Hall, Marjorie E.
Hallinan, Dorothy Grace
Halsey, Ray A.
Hamilton, Helen
Handley, Ada W.
Hanks, Jessie M.
Hanson, Jennie M.
Harding, Geo. L.
Harper, Robt. Harry
Harpham, Helen M.
Harris, Cassie
Harris, Mary Louise
Harrison, Noel
Harrison, Samuel
Hart, Ann Harrison, Noel
Harrison, Samuel
Harrison, Samuel
Hart, Ann
Hart, Mrs. Harry D.
Harter, Midred E.
Hartman, David
Hartman, Edw. Robert
Hartnett, Marry L.
Hartsook, Millard D.
Hatfield, Gertrude
Hartzel, E. W.
Hasket, W. Lee
Hanck, Laura North
Hawk, Gladys Maurea
Hawthorne, Elizabeth
Hawthorne, Frances
Haymaker, Nellie B.
Herbruck, Howard Willard
Hasen, H. J.
Herberich, Richard
Heck, Frances M.
Heckman, Sherman L.
Heerlein, Joseph Hubert
Heilman, Henry E.
Heilman, Loretta
Heiss, Bertha Helena
Helphinstein, Luen M.
Helphinstein, Luen M.
Helphinstine, Osborne P.
Henault, Eloise
Henderson, Ona
Henegan, Olive
Hennigan, Catharine
Henry, C. M.
Hess, Estella G.
Hess, Jay R.
Hewlett, Lucille
Hiatt, Harold Andrew
Hickox, Ruth

Higgins, Ray
Higgins, Cecelia
Higley, Ford L.
Higley, Ruth M.
Hilbish, Russell
Hill, Anna L.
Hill, Clarence Faloon
Hill, Alberta
Hill, Alberta E.
Hill, Alberta E.
Hill, Allerta E.
Hill, Anna L.
Hilcock, Amy Osborn
Hillock, John Ernest
Hiltoy, Jack London
Himes, Bertha A.
Hindman, Gladys E.
Hinkle, Elmer George
Hinman, Martha Louisa
Hinsdale, Josephine
Hipkins, Harriet Spalding
Hippensteele, George H.
Hirleman, Adeline A.
Hirleman, Grace
Hodgdon, Guy
Hodges, Dorothy
Hodson, Grace Margaret
Hoel, Harold H.
Hoelzer, John I.
Hoffman, George F.
Hoffman, Lela
Hofman, Martin L.
Holer, O. B.
Hollowsy, LeRoy P.
Homeir, Chas. Kenneth
Homing, Roy Murray
Hoover, Frances
Horning, Bernard J.
Hosler, Mary
Hoskin, Grace Eugenia
Hout, Chas. J.
Hough, Cynthia M.
Householder, J. Carl
Housel, Mildred
Houser, Mildred
Houser, Mildred
Houser, Midred
Houser, Midred
Houser, Midred
Houser, Midred
Houser, Mildred
Houser, Ruth
Houser, Ruth
Houser, Ruth
Homphrey, Clarence M.
Humphreys, Ray
Humsicker, Dorothy
Irvine, Alice S.
Irwin, William J.
Ion, Grace E.
Jackson, Marion
Jellison, Andrew
Jenkins, E. F.
Jewell, Elsei H.
Jacey, Pearle R.
Johnson, Helen

Johnson, Frederick H.
Johnston, Nan Y.
Johnston, Man Y.
Johnston, Mrs. Jean P.
Johnston, Mrs. Jean P.
Johnston, Walter A.
Jones, Edna
Jones, Robert B.
Jones, Robert B.
Jones, Robert B.
Jones, Robert B.
Jones, Rupert
Joy, Laura E.
Kaiser. Chas. Thomas
Kanagy, Celia M.
Kater, Minnie Anna
Kearns, Mary D.
Keating. Sara Florine
Keifer, Ruth L.
Keck, Olive
Kemple, Caroline B.
Keller, Annabel
Kern, Irvin Earl
Kiernan, James P.
Kiester, Pauline
King, Chas.
Kinnan, Andrew J.
Kinnan, Lillian M.
Kinney, L. D.
Kirk, Georgiana
Kitchen, Lejie
Kline, Dorothy
Klinken, Wm. F.
Knight, Mrs. Hal G.
Koehler, Orlo Oscar
Kohnz, Lewis
Kolton, Rose
Koontz, Mary E.
Kopf, Wm. Henry
Koplin, Jeanette
Kottke, Herman E.
Kraus, Luise H.
Kreiselman, Benj. B.
Krisher, W. O.
Knutson, Beth F.
Krause, Dwight A.
Kronk, Mae
Krumroy, Eljamond
Kuhach, Florence
Kunkel, Goldo M.
Kurzen, Walter Ernest
Kyser, LaVern F.
LaBelle, Fay
Lacy, Harold M.
Lamb, Emmanuel Victor
Lane, Gilbert Frederic
Lane, Gribert C.
Ledrick, Florence
Ledrich, Roxy Ann
Leeper, Laur
Leeper, Laur
Leees, Gertrude F.

Legge, Claude O.
Lehman, W. R.
Leib, Myrtle O.
Leight, Vesta May
Lemmer, Augusta Charles
Leonhard, Gladys
Lewis, Lucy A.
Lillie, Edw. P.
Lillidale, Juanita
Lieuellen, Mrs. Armetha
Lind, Esther Mildred
Latta, Isabelle S.
Linscott, Genevieve
Lorig, Arthur Nicholas
Loving, Mrs. G. C.
Loving, Guy O.
Love, Al. A.
Lincks, Wm.
Little, E. E.
Littell, Audrey C.
Lloyd, J. M.
Loughery, C. H.
Love, Mrs. Helen J.
Lowe, Eldreda B.
Lower, Daisy F.
Ludlam, Ruth
Ludwig, May
Lyle, Chester A.
Lytle ,Edison D.
de LaCarte, Miss
McAcy, Helen K.
McArtor, Alice N.
McAuliffe, Alice
McBride, Ray J.
McBride, Betty
McCall, Elmo J.
McCormick, Myrtle
McCormick, Mary E.
McCormick, Myrtle
McCormick, Mary E.
McCormick, Martha Jean
McDonald, Bose Ellen
McDonald, Rose Ellen
McDonald, Rose Ellen
McDonough, Pearl
McDowell, Alta
McDounell, Alta
McDounell, Alta
McDounell, Alta
McDowell, Alta
McGuire, Katherine
McKnall, Stella
McMillen, Neva
McMillen, J. Frank
McNeil, Lois A.
McNeil, Ruth
McOuie, Fannie
McQuige, Dorothy Lucille
McAdox, Marguerite
Madden, Herbert V.

Magyar, Helen
Maier, Bertha L.
Maider, Martha
Maloney, Paul L.
Manlief, Harley Ivor
Marsh, Mabel M.
Markley, Amanda
Marsh, Dorothy L.
Marshall, Merton M.
Marshall, Cecile
Marshall, Ethel
Marshall, Ethel
Martinovich, John
Markle, Nimmia L.
Martin, Edith
Martin, Rose
Mason, Mrs. Margaret Creighton
Mason, Anita Louise
Mathews, Dolly
Matlack, Caryl Helene
Matz, Ida J.
Mauer, Helen
Maurer, Dorothea
Mayer, Geo. Q.
Maybach, Emma L.
Mearig, John Frederick
Meier, Ruth
Melander, Amanda
Melkus, Franklin W.
Merryweather, Clyde
Mercer, J. R.
Meschede, Verena A.
Metheany, Maria Louise
Michael, Mrs. Pauline
Miller, Vernon D.
Miller, Geo. Eugene
Miller, B. Sidney
Miller, Carrie
Miller, Carrie
Miller, Emma
Miller, Chas. S.
Miller, Elizabeth Hazel
Miller, Emma E.
Miller, Grayce J.
Miller, Pearl
Miller, Helen A.
Miller, J. H.
Miller, Bertram
Miller, Petram
Miller, Vera M.
Mills, R. M.
Milligan, Livera
Mur, Jessie A.
Minns, M. Floise
Mitchell, Emma S.
Mitchell, Constantine G.
Moats, Russel Erwin
Moffatt, Ella
Moloney, Anna
Monroe, Belle M.
Montgomery, Chas. E.
Mooney, Sara M.

Moore, Maude E.
Moore, Ruth I.
Morgan, Hervert Whinzer
Morgan, Grace B.
Monlief, H. I.
Moncrief, Clarence E.
Moore, Caroline L.
Moore, Ralph B.
Moore, Willie Belle
Morgan, Volney H.
Morris, Gilbert W.
Morris, Gilbert W.
Morris, C. J.
Morris, Harry Lee
Morris, Kathleen J.
Morris, Vera Irene
Morrison, Janet
Mosser, Lester
Mosher, Delbert
Mosser, Lester
Mosher, Harold F.
Moss, Gratia M.
Moss, Phillip Raymond
Mossap, John
Moul, Samuel B.
Muir, Jesse A.
Munnell, Clara
Myers, John W.
Myers, Ruth M.
Musser, Harold C.
Myers, Edith Cobb
Myers, Paul I.
Myers, Fall I.
Myers, Paul I.
Mytholar, Raymond Ward
Naber, Louise
Naumer, Louise Calenthe
Naylor, Grace
Neag, Demetrius
Neal, Edith
Neiswanger, Ruth E.
Nelson, Lillie
Newbauer, Mareta
Newcomb, Flora H.
Newman, Leo D.
Nice, Dora A.
Noakes, Levi C.
Noble, Edith Mae
Nichols, Mrs. Martha O.
Norman, Vivian
North, Margaret T.
Northy, Gertrude Morgan
Norton, Bessie A.
O'Brien, Mrs. Clementine E.
O'Day, Lenora
Odeh, Nassir
Olin, Haleyon
Olin, Lucretia
Olin, Grace G.
Olson, Leland A.
Olsen, Gyda
Omansky, Sarah J.
Orin, Esther
Osborne, Ford
Outland, Mrs. Wm. H.

Pack, Isabel K.
Pack, Mabel
Painter, Frank
Palmer, Marian Inez
Palmquist, Dennis W.
Papist, Hazel
Park Chas. R.
Park, W. E.
Parker, Anna F.
Parker, Sterling C.
Parrish, Anne H.
Patterson, Earl
Patterson, Earl
Patterson, Russell E.
Paxson, Leona Wilma
Payne, Eva
Pearce, Gertrude
Pearson, Nina E.
Pease, Blanche Mae
Peckham, Hazel
Peterson, B. John
Peterson, Helga
Peterson, Margaret
Peerry, Lula
Pfaff, Rhea
Pfister, Edna A.
Pfeifie, Bessie
Phelps, Mary W.
Phillips, Virginia Olive
Pemberton, Letha
Perkins, Ina
Perry, Rose A.
Peteigrew, Camilla Ruby
Pettigrew, Shirley J.
Piatt, Grulford T.
Pickett, Elizabeth Katherine
Pierce, David H.
Pittinger, Jula A.
Plane, Margaret Mary
Pleasants, Elizabeth K.
Polinkas, Mary
Poe, Helen
Points, Florence M.
Polevoi, Rose
Pollock, Kathleen
Portz, Wade Russell
Pomeroy, Norman
Pomeroy, Rose
Pollock, Kathleen
Portz, Wade Russell
Pomeroy, Norman
Pomeroy, Rose
Powell, Chas. P.
Pressler, William F.
Price, George E. Jr.
Price, Elizabeth
Prindle, Ruth
Prior, Margaret M.
Proce, Ilizabeth
Prindle, Ruth
Prior, Margaret M.
Proce, Elizabeth
Prindle, Ruth
Prior, Margaret M.
Proce, Elizabeth
Prindle, Ruth
Prior, Margaret M.
Proce, Elizabeth
Prindle, Ruth
Proce, Elisabeth
Prindle, Ruth
Proce, Elisabet I.
Quick, Frank M.
Raison, Malissa

Ranck, Sadie C.
Randall, Nora Evangeline
Randolph, Louise D.
Rarey, Erma Ruth
Rasor, Gladys E.
Rau, George Earl
Read, Ethel D.
Ream, William James
Ream, Madeline Alyce
Redinger, Elizabeth
Reese, Margaret C.
Reed, Hazel
Reed, Ruth
Reinert, Albert C.
Reiser, Bess
Renner, Flossie E.
Reno, Golden M.
Replogle, Helen Saeger
Replogle, Helen Saeger
Replogle, Ralph Vernon
Reynolds, Mary E.
Rhoads, Tona A.
Riblett, Leila
Rice, Martha Louise
Richards, Edith
Riel, W. Raymond
Ries, Blanche Mabel
Riggin, Thomas L.
Riggle, Leva Boltz
Rimer, Robert H.
Robart, Hazel Irene
Robb, William J.
Robinson, Irma A.
Robinson, Irma A.
Robinson, Irma A.
Robinson, Irma Ender
Rook, Margaret W.
Romestant, Rose
Romig, Lucreta Blanche
Rook, Margaret L.
Roose, Robert Lisle
Rooms, Elma
Rosenfeld, Frank
Ross, May
Roush, Floris Carmene
Rubens, Paul W.
Ruch, Elden H.
Ruehling, Alvin C.
Rumbaugh, Lillis Florence
Rummel, Eva
Rumsey, Rebecca
Rusterholz, Lydia
Rylander, Martha O.
Saal, Kathryn C.
Sackett, Rosalind Edith
Sackrider, Louise
Salber, Olive Mary
Santom, Laurel B.
Sarlson, Bessie
Sarver, Leonard Ray
Saunders, Ellen G.
Schaefer, Mrs. E. F.
Schaefer, Grace
Schall, Hannah Agnes
Schaufele, Lucille Kathryn
Scherbarth, Ruth Irene
Schaufele, Mildred
Schmieg, Gertrude

Schneider, Edwin Albert
Schnee, Mary E.
Schneider, Fred E.
Schneider, Fred E.
Schroeder, Roga
Schrop, Edwin I.
Schultz, O. Delevin
Schultz, O. Delevin
Schultz, Dorothy
Schwab, Harry W.
Schwab, Albert G.
Schweitzer, T. Robert
Schwem, Mrs. Mabel
Searer, Kathryne
Seib, Edna
Seibler, Katherine M.
Seiple, Virgil
Seindler, Clare E.
Seitters, Carl W.
Seitz, Etta H.
Sellers, Sammuel
Serfass, Addie
Shaffer, C. R.
Shaffer, Ralph
Shaffer, Mrs. Grace
Shaffer, Mrs. Grace
Shaffer, Helen Harriett
Shannon, Lula S.
Sharpe, Mrs. Nelle C.
Shaw, Robert Osburn
Shawl, Nellie G.
Sheedlo, Hilda M.
Sherman, Louise J.
Shelter, Maude M.
Shinn, Herbert
Shook, Merriel A.
Shreve, Dorothy J.
Shriber, C. E.
Shuler, Geo. A.
Sills, Evelyn
Simmons, F. L.
Simmons, B. J.
Simmons, F. L.
Simmons, G. O.
Simpson, Mary L.
Skaer, Blanche A.
Slabaugh, Fanny M.
Slater, Allene
Sleck, Viola
Sloan, Emma E.
Smith, Brownie McCormac
Smith, Jane Murphy
Smith, Florence M.
Smith, Jessie G. Smith, Jessie G.
Smith, James Morse
Smith, Lena E.
Smith Russel G.
Smith, Lura Grant
Smith, Lulu I.
Smith, Sidney Matteson
Smith, Sidney Matteson
Smith, Mrs. Wave
Smith, Carleton F.
Smith E. D.
Smith E. D.
Smith E. D.
Smith E. Tank
Smith, Evelyn
Smith, Frank
Smoot, Henrietta

Smoyer, Anna J.
Snavely, Daisy M.
Snow. Lela M.
Snyder, Celia R.
Snyder, Clark Montgomery
Snyder, Olive Grace
Snyder, Harold L.
Snyder, Anna
Sourek, Joseph Francis
Sowell, LeRoy L.
Spafford, Beryl
Spaulding, Irving M.
Spicer, Marilla K.
Spoo, Margaret
Sprigle, Harold A.
Springer, Martha Corinne
Sprinkle, Beth
Sprinkle, Beth
Sprinkle, Harold A.
Springer, Martha Corinne
Sprinkle, Beth
Spuller, Minnie J.
Stair, Ralph L.
Stansberry, Ada
Stauffer, Harold A.
Stark, Virginia
Steckhan, R. Bertha
Steckhan, R. Bertha
Steckhan, Charlotte E.
Steigner, Ora M.
Stein, Mrs. Homer C.
Steiner, Homer, J.
Stephen, W. Korach
Stevenson, Myra L.
Stewart, Lucy Marshall
Stewart, Virginia W.
Storing, Julia H.
Stockman, Emma
Storts, Adaline M.
Stoughton, B. Maynard
Stover, Frank O.
Stratton, Leon C.
Stricklen, J. R.
Strole, Helen Grace
Stuck, Clarence R.
Stuckey, Emma
Sturts, Edwart, Euth P.
Sullivan, James T.
Sullivan, Esther L.
Suzgareff, Vangel Konstantine
Suhadalink, Lewrence
Swigart, Leatha
Sullivan, Marnette
Sullivan, Marnett

Taney, Anne
Taylor, Odette
Templer, May
Tenny, Gladys
Theophilus, Anna K.
Thesing, Anna
Thesing, John W.
Thourot, M. Grace
Thurston, Ruth V. Thurston, Ruth V. Tier, Anna
Timmons, Wm. David
Timmis, Margaret
Timmons, Ethel
Tobin, Honora Tomasko, John
Toon, Gladys E.
Tubaugh, Marie
Tobin, Ellen
Towne, Iva
Towne, Iva
Towne, I. J.
Tracy, Ethel M.
Trainor, Mrs. E. F.
Traverso, Josephine
Triplett, Dorothy
Tucker, Guy E.
Tucker, M. Marie
Turnbull, Elizabeth M.
Trunbull, Thomas Reed
Ulrich, A. J.
Ulrich, Anna
Upstill, Helen
Urpman, Bertha
Urpman, Nins E.
Van Camp, Ruth M.
Vandersall, Clara E.
Vandersall, Clara E.
Vandersall, Ray Leonard
Van Hyning, Irene
Vaughn, Margaret E.
Vaughn, Margaret Sough, George
Vollmer, Helen
Vuckovich, Sophia
Wachter, Rose O.
Wagner, John A.
Wagner

Weeks, Olive M. Weihrauch, Irma Wells, Geo. B. Wells, Ruth F. Welsh, Mary B. Welsh, Tressa Welsby, Clarence B. Weltner, Dora Wentink, Paul Herbert Westland, J. Elizabeth Whealun, Mrs. Carolyne Whitbeck, Hortense Wheslun, Mrs. Carolyne
Whitekek, Hortense
White, Ruth
White, R. E.
White, Glen E.
White, Glen E.
White, Gladys
Wiggins, Ola Faucett
Wild, C. L.
Wiles, J. M.
Wiles, Bernice
Wilcox, Mary Virginia
Willett, Bessie
Williams, Cora E.
Williams, Glenn A.
Williams, Helen S.
Williams, Helen G.
Williams, John E.
Williams, John E.
Williams, John E.
Williams, Norma F.
Williams, Margaret
Williams, Ruth
Wilson, Ruth
Wilson, Ruth
Wilson, Ethel L.
Wilson, Grace A.
Winer, Clara
Winroth, J. Emil
Winters, Vella L.
Wise, William Robert
Wise, Velma Ethel
Wise, Alice Marian
Wise, Mabel
Wilson, Malde Emerson
Willer, Walde Emerson
Willer, Walde Emerson
Wilson, Walde Emerson
Wilson, Walde Emerson Wise, Alice Marian
Wise, Mabel
Witthoeft, Dorothy
Witwer, Waldo Emerson
Wolfe, R. Erda
Wood, Bertha
Woodbury, H. C.
Wooddell, Florence
Woody, Irene
Woozley, Florence
Wormald, Grace Mae
Wright, Bertha C.
Wright, J. Ruth
Wright, Louise J.
Wygant, Elizabeth
Wykoff, Edward
Wyre, Harry Kurts

Yonson, Mabel I. Young, Margaret Elizabeth Young, Randall Blair Zeis, Mary Zindel, Edna Mae Zesiger, E. E. Zickefoose, Dana Marie Zimarik, Wilma Zink, Margaret Zook, A. D.

#### SUMMER SESSION—1922

Alderton, Mary A.
Amos, Jennie
Andreas, Anna Rosalind
Barnes, Elizabeth
Baughman, C. Blanche
Beach, Carrie A.
Bennett, Luther H.
Bishop, Walter M.
Blankenship, Mrs. Jean
Brast, Bertha Edna
Bricker, Frances B.
Broach, Emma
Broughton, Rhoda
Brown, Ross C.
Brown, Mrs. W. K.
Burritt, T. W.
Burroughs, Arden
Cable, Rena N.
Camehl, Ruth
Carey, Lila
Cauffield, Doris
Cehrs, Glenn P.
Chambers, Myrna E.
Clark, Gertrude
Cline, Camilla
Cline, Marguerite
Corbett, William H.
Cratty, E. Stella
Crawford, John D.
Crispin, Frederica
Dales, Lotta E.
Danforth, Florence
Daniels, Helen
Davidson, Dorothy
Davies, Carrie L.
Dean, Anna H.
Deckard, Huldah
Denning, Murl
Derrig, Dorothae
Dillehay, Albert J.
Ervin, Berchal
Fairall, L. L.
Fackler, Mary
Fasnacht, Mary C.
Fitzgibbon, Paul
Filint, Roy M.
Fornecker, Helen
Foster, Mary
Freas, Nina M.
Fricker, Agnes M.
Fricker, Agnes M.
Fricker, Agnes M.
Frye, Mrs. Irene

Fuller, May L.
Fulton, Harold
Garbett, Evelyn
George, Mrs. Blanche
Gilbride, Rose M.
Goodman, Nettie N.
Graham, C. A.
Grant, Frank D.
Green, Alice L.
Green, Carrie L.
Grigsby, Myrtle
Hamilton, Helen
Hanks, Jessie
Hanson, Arthur
Harding, George L.
Harpham, Helen
Hart, Mary Beatrice
Hassenflue, Marjory
Heiss, Bertha Helena
Hendershot, Mrs. Bell
Heskett, Grace
Hinman, Martha L.
Hipkins, Harriet
Hjort, Elmer V.
Hoover, Frances
Hubbard, Ruth
Hurwitz, Simon
Javins, William
Jellison, Horace
Jordan, Francis
Joy, Laura E.
Keating, Sara
Kick, Margaret
Kinna, Beulla
Kniffin, Hazen
Kraus, Rose
Kreiselman, Benjamin
Kuenzli, Dorothy
Kunkel, Goldo
Leeper, Laura
Lemmer, Augusta C.
Lilliedale, Juanita
Lind, Esther M.
Lizawetsky, Bessie
Ludwig, May
McBride, Ross
McCormick, Mary
McCoy, Foster L.
McCoy, States D.
McCullough, Carmetta
McDowell, Anna

McGinness, Edna
McIlwain, J. T.
McKelvey, Augusta
McKinney, Ida L.
MacAllister, Hazel
Markle, H. N.
Mason, Mrs. Margaret
Mearig, John F.
Meier, Ruth R.
Melkus, Franklin
Miller, B. Sidney
Miller, Margaret E.
Miller, Margaret E.
Miller, Margaret E.
Miller, Moore, Caroline L.
Moore, Caroline L.
Moore, Maude
Motz, Caroline L.
Moyre, Mary
Naugle, J. Vivian
Newbauer, Mareta
Nice, Olive
Nichols, Martha
Noakes, L. C.
Olin, Halcyon M.
Orin, Esther
Otto, Russell
Palmer, Marian I.
Parker, Marilla
Pease, Blanche M.
Pfaff, Rhea
Pfeifle, Bessie
Phares, Salomae
Pierce, Mrs. Estella
Place, Pauline
Pleasants, Elizabeth
Porter, Mrs. Florence
Prior, Margaret
Rauschenberger, Fred
Reed, Edith
Richard, Mrs. Alice
Richardson, Howell M.
Ritchie, Harry
Robart, Wilbur
Robb, William J.
Roberts, Mildred
Rook, Margaret
Roose, Robert L.
Ross, Mary
Rothrock, Mrs. Mary
Sanderson, Paul
Sayers, Martha
Scherbarth, Ruth I.
Schwem, Mabel
Schwendeman, Agnes
Seckel, Rollie Jay
Seib, Edna
Seiders, Edith
Sellers, Hazel

Shank, Dorothy
Shannon, Mrs. Lulu
Shea, Dorothy
Sillito. Lucile
Simpson, Anna
Simpson, Mary L.
Slater, Ailene
Smetts, Adah
Smith, Dorothy
Smith, Florence
Smith, Jessie
Smith, Lula
Snyder, Harold L.
Snyder, Nellie
South, Hester
Spaulding, Irving
Spencer, Addison
Spuller, Minnie
Stansberry, Ada
Steckhan, R. Bertha
Steckhan, Charlotte E.
Stevens, Paul
Steel, Francis
Storing, Julia
Stump, Kathryn
Sutherland, Sue
Swigel, Emilie
Switzer, Mrs. Happy
Switzer, Mary C.
Sykes, Rhoda
Taylor, Louise
Thesing, Anna
Thompson, Carrie
Timmis, Margaret
Triplett, Dorothy
Truax, Lillian
Upstill, Helen
Veon, Mamie W.
Walcott, Fannie
Walker, Achsah
Warner, Jeannette
Webster, Carl
Welch, Mattie
Wells, M. H.
Wentink, Paul
White, Ruth
Wentink, Paul
White, Ruth
Wiener, Richard L.
Williams, Leura
Wilt, Roy W.
Wirth, Eleanor
Worrell, Virginia M.
Wygant, Elizabeth
Young, Margaret E.
Zeis, Mrs. Mary

Total ......220

# SUMMARY OF ALL STUDENTS IN THE UNIVERSITY

	$\mathbf{Men}$	Women	Total
Graduate Students	13	12	25
Seniors	51	35	86
Juniors	67	47	114
Pre-Juniors	17		17
Sophomores	116	112	228
Freshmen	217	159	376
Irregular	3	8	11
Special		10	42
Total in Day Classes	516	383	899
Total in Evening Session 1124  (On basis that five evening studen are equivalent to one full-time student.)  Total full-time sudents in the University for the school year 1922-23			226 
Students in Summer Session, 1922	2	20 ·	
Less students enrolled in day session, 1922-23		61	
			159
Total enrollment, 1922-23	• • • • • • • • • • • • • • • • • • • •		1284

# DEGREES CONFERRED

CLASS OF 1922

# BACHELOR OF ARTS

Mary Eliza Allaman	Akron
Alice Adelaide Beer	Akron
William George Blower	Akron
Lynn Arlington Carney	Akron
Carl V. Daum	
Jonathan Wamsley Depue	
John Albert Froebe	
Gladys Mariette Ganyard	Everett
Alice Lacy Green	Akr8n
Harry C. Guckeyson	Akron
Malissa Maxine Leland	
Geraldine Markle	Akron
Dorothy Lillian Marsh	Akron
Mary Jane Rothrock	Akron
Lucille Kathryn Schaufele	Barberton
Walter Huber Stump	Akron
Anna Mary Thesing	Barberton
Harold Irwin Thomas	Wooster
Purla Lee Thornbury	
Conrad Klein Van Hyning	Akron
Anna Margaret Wagner	
Margaret Catherine Washburn	Akron
BACHELOR OF SCIENCE	
Ray Anderson Behl	Akron
Warren Brockett	
Chester William Christensen	
John Morris Davies	
Adrian E. Davis	
Herman K. Eckert	
Robert H. Ladd	
Raymond Dewey Lancaster	
Edward Lee Laushell	
Willard Baldwin Melvin	
J. Howard Moore	and the second s
Arno Emerson Town	Barberton
Earl Waldkirch	Akron
Lois A. Waltz	Akron
Marion Katherine Weaver	Akron

### REGISTER

# CIVIL ENGINEER Fred Jay Braucher ......Akron

# ELECTRICAL ENGINEER

James Elmer Lynn Akron

#### MECHANICAL ENGINEER

Howard Christian Kittelberger ......Akron

#### BACHELOR OF SCIENCE IN MANUFACTURING PRODUCTION

George Burt Grimm Akron
Forest G. Tritt Barberton

# BACHELOR OF SCIENCE IN COMMERCE AND ADMINISTRATION

Esther Louise Williams ......Akron

#### BACHELOR OF EDUCATION

Bertha Regina Frampton	Akron
Mabelle Davidson Heath	Cuyahoga Falls
Martha Elizabeth Redinger	Akron
Naomi Angeline Saviers	Akron
Mary Elizabeth Willoughby	Columbus

PUBLIC ADDRESSES-1922		
January 6	Rabbi David Alexander-"Loyalty."	
January 13	Rev. George Cross Baner-"The Victory of Vision."	
February 10	Mr. Frank Magennis—"Experiences in South America."	
February 17	Mayor D. C. Rybolt—"The Need in Modern Education."	
February 27	Hamilton Holt, Editor of the Independent— "The Washington Conference."	
March 3	Dr. E. H. Arnold, Director of the New Haven School of Gymnastics.	
March 17	Mr. Percy MacKaye, Poet and Author.	
March 24	Miss Belle Boyson, Charity Organization Society.	
March 31	Mr. Robert Churchill Vose, of Boston, "The Akron Art Institute."	
April 7	Mr. H. B. Hulbert-"Korea."	
April 28	Mr. E. M. Jordan, President Jordan Motor Company, Cleveland, Ohio.	
May 12	Mr. Homer J. Campbell, City Administrator.	
May 19	Principal C. J. Bowman, South High School.	
June 2	Mr. E. L. Marting, Kaufman Realty Co.	
June 14	Dr. Charles H. Judd—"Public Responsibility for Improving Education."	
October 13	Principal E. E. Morley, West High School.	
October 20	E. J. Larrick, Better Akron Federation.	
October 27	Mr. Starr Truscott, Civilian Supervisor to the Lighter-than-Air Service of the Navy De- partment—"Navy Day."	
November 3	Dr. W. C. Geer, The B. F. Goodrich Company.	
November 10	Walter Wanamaker, Assistant Prosecuting Attorney—"Armistice Day."	
November 17	Mr. H. A. Ferguson-"Short Cuts in Education."	
November 27	Professor T. W. Graham—"University Conditions in Foreign Countries."	

William Homer Leavitt, Artist-"Education." Mr. A. O. Heck, Psychological Research Department, Akron Public Schools.

December 8

December 15

#### PRIZES AND HONORS

#### THE ASHTON PRIZES

Senior Ashton Prize Contest, January 20, 1922. First prize awarded to Marion Katherine Weaver; second prize to Harry C. Guckeyson.

Sophomore Ashton Prize Contest, April 21, 1922. First prize awarded to Elizabeth Stevenson; second prize to Pauline Place.

Junior Ashton Prize Contest, June 2, 1922. First prize awarded to J. Vivian Naugle; second prize to Dorothy Shank.

#### THE SENIOR ALUMNI PRIZE

The Senior Alumni Prize was awarded to Anna Margaret Wagner and Marion Katherine Weaver.

#### THE TOMLINSON PRIZES

The Tomlinson Prizes were awarded to the following students: Conrad K. Van Hyning, '22, first prize; F. Donald Howe, '25, 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 made it the permanent possession of the South High School. The winner of a second cup for 1919-1920 was West High School, for 1920-1921 South High School and for 1921-1922 West High School.

#### PHI SIGMA ALPHA

The students chosen for membership in Phi Sigma Alpha Fraternity from the senior class of 1922 were Anna Margaret Wagner, Marion Katherine Weaver and Harold I. Thomas.

# THE ALUMNI ASSOCIATION of THE UNIVERSITY OF AKRON

Organized July, 1874 Incorporated October 19, 1899 OFFICERS FOR 1922-1923

#### OFFICERS OF THE ASSOCIATION

President, Joseph B. Hanan, '10	kro	on
Helen Parker Emmett, '13		
Secretary, Kathryn Miller, '16		
Treasurer, Arden Hardgrove, '11		
Alumni Secretary, Juliette Allen, '14U.		

# ALUMNI BOARD OF TRUSTEES OFFICERS

J. B. Hanan, '10, President ex-officio.
Vice President, Alfred Herberich, '11Akron
Kathryn Miller, '16, Acting Secretary ex-officio.
A. E. Hardgrove, '11, Treasurer ex-officio.

Term expiring June, 1923.

W. T. Sawyer, '87	Akron
J. C. Frank, ''99	
Mrs. Harold Fleming, '11	
Mrs. Frank Paul. '08	

Term expiring June, 1924.

Bruce Bierce, '20	Cuyahoga Falis
Irene Willson, '16	Akron
	Akron
	Akron

Term expiring June, 1925.

Beatrice Sumner.	'08	Akron
	***************************************	
	errett, '06	
	08	

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	420
Women	319
· ·	
Total	739
Geographical Distribution	
Deceased	72
Unknowa	15
In California	17
In Canada	2
In China	1 5
In Colorado	_
In Florida	4
In France	1 2
In Hawaii	
In Idaho	4 15
In Illinois	
In Indiana	12
In Iowa	2
In Kansas	2 1
In Maine	7
In Massachusetts	12
In Michigan	12
In Minnesota	2
In Mississippi	6
In Missouri	1
In Montana	1
In Nebraska	i
In North Dakota	1
In New Jersey	3
In New York	21
In Ohio	483
	2
In OregonIn Pennsylvania	22
In Rhode Island	1
In South America	î
In Tennessee	2
In Texas	2
In Utah	ĩ
In Vermont	4
In Washington	2
In Washington D. C.	2
In Washington, D. C	3
In Wyoming	1
In West Virginia	·î
In Virginia	1
	_

# ALUMNI ASSOCIATION

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### Occupations of Alumni

Actors	2
Architects	1
Artists	1
Authors	3
Bankers	4
Charity Organization Work	4
Chemists	26
Clergymen	11
Clerical Work	26
Commercial Work	87
Contractors	1
Decorators	1
Dietitians	5
Engineers	29
Farmers	10
Forestry	1
Government Employ	8
Insurance and Real Estate	9
Lawyers	43
Librarians	8
Living at Home	48
Lyceum Bureau Work	1
Manufacturers	4
Married Women	93
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	10
Teachers and Professors	132
Unknown	18

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