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THE MUNICIPAL UNIVERSITY of AKRON

AKRON, OHIO

APRIL, 1924

GENERAL CATALOG

1924

Miss Pope



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of
Buchtel College

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AKRON, OHIO
April, 1924

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UNIVERSITY CALENDAR

1924

January 7, Monday	Class work resumed in all departments
January 18, Friday	Founder's Day
January 23-30	Classification for second semester. All departments except Co-operative Engineering and Commerce
January 25 and 26	Registration and classification for new students
January 26, Saturday 2:00-5:00 and 7:00-9:00 p. m.	Registration and classification for Evening Session for second semester
January 28 to February 2	Final examinations
February 4, Monday	Class work begins for Evening Session
February 6, Wednesday	Second semester begins for all departments except Co-operative Engineering and Commerce
February 15, Friday	Senior Ashton Prize Contest
February 18, Monday	Classification for Co-operative Engineering and Commerce students, Section I
February 22, Friday	Washington's Birthday—a holiday
March 3, Monday	Classification for Co-operative Engineering and Commerce students, Section II
April 12, Saturday, noon	Easter recess begins
April 21, Monday	Class work resumed
May 15, Thursday	Student Elections
May 23, Friday	Tree Day
June 9-14	Final Examinations
June 13, Friday	Evening Session closes
June 15, Sunday	Baccalaureate Exercises
June 16-18, Monday to Wednesday inclusive	Commencement

June 19	Entrance Examinations
June 23 to August 1	Summer Session in Teachers College
June 23 to August 16	Summer Session in College of Engineering and Commerce
July 1, Tuesday	Practical work begins in College of Engineering and Commerce for fall semester students.
July 16, Wednesday	Registration and classification begins for fall semester for new resident students in Buchtel College, Curtis School of Home Economics and Teachers College. Also for students enrolling in the Evening Session and Saturday courses.
September 9-10	Entrance Examinations
September 12 and 13, Friday, 9:00 a. m. to 5:00 p. m. Saturday, 8:00 a. m. to 12:00 noon	Final registration and classification of new students
September 13, Saturday, 2:00-5:00 and 7:00 to 9:00 p. m.	Registration and classification for Evening Session
September 15, Monday	Registration and classification for College of Engineering and Commerce (Section I for Co-operative students)
September 15 and 16	Registration and classification for upper classmen in Buchtel College, Curtis School of Home Economics, and Teachers College
September 16, Tuesday	Class work begins for College of Engineering and Commerce
September 17, Wednesday	Class work begins for Buchtel College, Curtis School of Home Economics, Teachers College and Evening Session
September 25, Thursday	Freshman Elections

September 29, Monday	Registration and classification for College of Engineering and Commerce (Section II for Co-operative students)
November 27, 28 and 29, Thursday, Friday and Saturday	Thanksgiving Recess
December 20, Saturday, 12:00 noon	Christmas vacation begins for all departments
1925	
January 5, Monday	Class work resumed in all departments
January 16, Friday	Celebration of Founder's Day (January 18)
January 19-24	Classification for second semester, all departments except Co-operative Engineering and Commerce
January 23 and 24, Friday and Saturday	Registration and classification of new students for second semester
January 24, Saturday, 2:00-5:00 and 7:00-9:00 p. m.	Registration and classification for Evening Session for second semester
January 26-31	Final Examinations
January 30, Friday	Entrance Examinations
February 2, Monday	Class work begins for Evening Session
February 4, Wednesday	Second semester begins for all departments except Co-operative Engineering and Commerce
February 16, Monday	Classification for Co-operative Engineering and Commerce, Section I
March 2, Monday	Classification for Co-operative Engineering and Commerce, Section II
April 4, Saturday, 12:00 m.	Easter recess begins
April 13, Monday	Class work resumed
May 14, Thursday	Student Elections
May 29, Friday	Tree Day

May 30, Saturday	Memorial Day—a holiday
June 8-13	Final Examinations
June 12, Friday	Evening Session closes
June 15-17, Monday to Wednesday, inclusive	Commencement

BOARD OF DIRECTORS

JOHN W. THOMAS	Term expires 1926
J. GRANT HYDE	Term expires 1926
B. A. POLSKY	Term expires 1926
P. W. LITCHFIELD	Term expires 1928
WILLIAM H. EAGER	Term expires 1928
CLYDE F. BEERY	Term expires 1928
FRANK M. COOKE	Term expires 1930
Mrs. CHARLES W. AVERELL	Term expires 1930
JAMES B. PERGRIN	Term expires 1930

Officers for 1924

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

Committees for 1924

Committee on Finance: POLSKY, BEERY, PERGRIN.
Committee on Investments: COOKE, HYDE, AVERELL.
Committee on Buildings and Grounds: THOMAS, LITCHFIELD, EAGER.

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

PARKE R. KOLBE, Ph. D.....*President of the University*
CHARLES R. OLIN, M. S.....*Secretary of the University*
GLADYS P. WEEKS.....*Registrar*
OSCAR E. OLIN, LL. D.....*Vice-President of the Faculty*
H. V. EGBERT, A. M.....*Secretary of the Faculty*
ALBERT I. SPANTON, A. M.....
.....*Dean of Buchtel College of Liberal Arts*
FRED E. AYER, C. E.....
.....*Dean of the College of Engineering 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. M.....*Dean of Women*
 FREDERICK S. SEFTON, B. S.....*Physical Director*
 RENA B. FINDLEY.....*Librarian*
 H. E. SIMMONS, M. S.....*Director of Evening Session*
 ULYSSES S. VANCE, A. B.....*University Editor*
 R. H. SCHMIDT, A. M...*Chairman, Committee on Entrance*

***GENERAL FACULTY AND OFFICERS OF
 INSTRUCTION
 1923-1924**

PARKE R. KOLBE, Ph. D.....*President's House*
President of the University
 CHARLES M. KNIGHT, A. M., Sc. D.....583 Weber Ave.
Professor Emeritus of Chemistry
 CHARLES R. OLIN, M. S.....421 Spicer St.
Secretary of the University
 JOSEPH C. ROCKWELL, Ph. D.....58 Casterton Ave.
Professor of Latin and Greek
 OSCAR E. OLIN, A. M., LL. D.....75 Nebraska St.
Messenger Professor of Philosophy and Sociology
Vice-President of the Faculty
 ALBERT I. SPANTON, A. M.....407 Vine St.
Pierce Professor of English
Dean of Buchtel College of Liberal Arts
 HEZZLETON E. SIMMONS, M. S.....331 Beechwood Drive
Buchtel Professor of Chemistry
Director of Evening Session
 FRED E. AYER, C. E.....Tallmadge, Ohio
Professor of Civil Engineering
Dean of College of Engineering and Commerce
 SARAH E. STIMMEL, B. S.....63 Kuder Ave.
Director of the School of Home Economics
 W. J. BANKES, A. M.....355 Pioneer St.
Dean of Teachers College
Director of Summer Session
 FREDERICK S. SEFTON, B. S.....1011 Bloomfield Ave.
Director of the Department of Physical Education

*The names of Professors, Assistant Professors and Instructors are placed according to term of appointment and length of continuous service with present rank.

- *CHARLES BULGER, A. M.
Hilton Professor of Modern Languages
- AMON B. PLOWMAN, Ph. D.....346 Crown St.
Professor of Biology
- ELIZABETH A. THOMPSON, A. M.....109 S. Forge St.
Professor of History
Dean of Women
- FRED F. HOUSEHOLDER, A. M.....27 N. Union St.
Professor of Physics
- EARL W. CRECRAFT, Ph. D.....688 E. Buchtel Ave.
Professor of Political Science and Economics
- LAWRENCE M. McDERMOTT, A. M.....388 Carroll St.
Professor of Commerce and Business Administration
- JOHN L. JONES, Ph. D.....Cuyahoga Falls, Ohio
Ainsworth Professor of Mathematics
- THOMAS L. McJOYNT, LL. B., B. C. S.....Barberton, Ohio
Professor of Co-ordination
- GEORGE L. HAYES, Ph. D.....348 N. Firestone Blvd.
Professor of Education
- HERMAS V. EGBERT, A. M.....440 E. Buchtel Ave.
Professor of Mathematics
- ROSS C. DURST, C. E.....Cuyahoga Falls, Ohio
Professor of Civil Engineering
- JOHN T. WALTHER, B. S.....384 Reed Ave.
Professor of Electrical Engineering
- RAYMOND B. PEASE, Ph. D.....343 Carroll St.
Professor of English
- WILLIAM L. TYDINGS, Capt. Inf., U.S.A.,163 Casterton Ave.
Professor of Military Science and Tactics
- EDWIN G. BALDWIN, Ph. D.....154 Hollinger Ave.
Acting Professor of Modern Languages
- RICHARD H. SCHMIDT, A. M.....772 Copley Road
Assistant Professor of Chemistry
- KATHARINE M. REED, A. M.....900 Elmore Ave.
Assistant Professor of Modern Languages
- CHARLES R. SMITH, 1st Lieut. Inf., U.S.A..264 W. Market
Assistant-Professor of Military Science and Tactics
- KENTON P. COOLEY, 1st Lieut. Inf., U.S.A..264 W. Market
Assistant-Professor of Military Science and Tactics
- FRED S. GRIFFIN, M. E.....157 Marvin Ave.
Assistant-Professor of Mechanical Engineering

*On leave of absence 1923-1924.

- EMERY L. KUHNES, Ph. D.....748 W. Market St.
Assistant-Professor of Education
- FRANK D. CLARK, M. E.....734 Kling St.
Assistant-Professor of Mechanical Engineering
- ADELBERT L. LEATHERS, Ph. D.....33 Goodwin Ave.
Assistant-Professor of Biology
- CARITA McEBRIGHT, A. B.....396 E. Market St.
Instructor in Speech
- JOHN W. BULGER, B. C. E.....Canton, Ohio
Instructor in Mathematics
- RITA E. STINSON, B. S.....594 E. Market St.
Instructor in Home Economics
- ERNEST F. SCHAEFER, B. E. M.....792 Kenyon St.
Director of the Bureau of City Tests
Instructor in Metallurgy
- FRANCESCO B. DELEONE, Mus. D.....197 W. Market St.
Director of Music
- HENRI TAILLIART.....Barberton, Ohio
Instructor in Modern Languages
- WILLIAM A. MOORE, A. M.....511 Ritchie Ave.
Instructor in Chemistry
- HERMAN E. SAYGER, B. S.....349 Beechwood Drive
Instructor in Physical Education
- WILL H. LIPSCOMBE, B. S.....264 W. Market St.
Instructor in Mathematics
- MABEL J. ROGERS, A. M.....149 S. Union St.
Instructor in Romance Languages
- ROBERT J. ANDERSON, B. S. in E. E....1256 Lexington Ave.
Instructor in Electrical Engineering
- WALTER A. GILMOUR, B. S. in C. E.....861 Aberdeen St.
Instructor in Mathematics
- DAVID E. ANDERSON, M. S.....Kenmore, Ohio
Instructor in Chemistry
- JOHN M. DAVIES, B. S.....892 Courtland Ave.
Instructor in Physics
- DAVID M. SHARER, A. B.....Cuyahoga Falls, Ohio
Instructor in Commerce and Administration
- CLAUDE M. NEWLIN, A. M.....566 E. Buchtel Ave.
Instructor in English
- MARJORIE MITCHELL, A. M.....297 E. Buchtel Ave.
Instructor in English

- FRANK A. GRISMER, A. M.....566 E. Buchtel Ave.
Instructor in English
- ULYSSES S. VANCE, Jr., A. B.....453 Allyn St.
Instructor in English and Journalism
University Editor
- CHARLES A. HALLENBECK, M. A.....Cuyahoga Falls, Ohio
Instructor in Political Science
- EDGAR DEHN, Ph. D.....84 Kirkwood St.
Instructor in Economics and Sociology
- ORVILLE J. MARSH, A. B.....199 Ellwood Ave.
Instructor in Commerce and Administration
- CHESTER H. SMITH, A. B.....303 E. Buchtel Ave.
Instructor in Physical Education
- ROLLAND D. FOX, M. S.....395 Doyle St.
Instructor in Biology
- ALFRED E. BISHOP, B. S.....160 S. College St.
Assistant in Bureau of City Tests
- DONALD C. DARRAH, B. S.....194 Spicer St.
Graduate Assistant in Biology
- *MRS. ANNIE L. MACKINNON.....418 Vine St.
Instructor in English
- *SARAH E. DUNCKLEY, B. S.....390 Berry Ave.
Physical Instructor for Women
- *LLOYD C. DOUGLAS, D. D.....240 Storer Ave.
Lecturer to Freshman Class
- *CHARLES E. BRYANT, A. B.....844 Slosson St.
Instructor in Debating
- HENRY METZGER, Master Serg., Retired, Inf., U.S.A.....
.....816 Ruth Ave.
Instructor in Military Science and Tactics
- GLADYS P. WEEKS.....248 S. Balch St.
Registrar of the University
- RUTH P. STURTEVANT.....840 Chalker St.
Assistant Registrar
- Library Staff**
- RENA B. FINDLEY.....32 S. Adolph Ave.
Librarian
- JOSEPHINE A. CUSHMAN, Ph. B., B. L. S....517 Crosby St.
Associate Librarian and Instructor in Library Science
- RUTH K. PORTER.....268 Spicer St.
Assistant Librarian

*Part-time instructors.

**Additional Instructors,* Co-operating Officers
and Teachers of Akron Schools**

I. V. WALTZ	<i>Business Administration</i>
ALVIN S. VOGELGESANG.....	<i>Business Administration</i>
WILLIAM C. HENRY.....	<i>Business Administration</i>
JOHN J. SULLIVAN.....	<i>Business Administration</i>
IRENE HANSEN, B. S.....	<i>Mental Testing</i>
A. J. DILLEHAY.....	<i>Auditorium</i>
GERTRUDE GAMBLE.....	<i>Public School Music</i>
HORACE M. JELLISON.....	<i>Smith-Hughes Work</i>
J. F. BARNHART.....	<i>Penmanship</i>
FRANK D. McELROY, A. M.....	<i>Asst. Supt. of Schools</i>
E. E. MORLEY, A. M.....	<i>Principal of West High School</i>
O. C. HATTON, A. B.....	<i>Principal of Mason School</i>
FLORA G. HOOVER, A. B.....	<i>Instructor in Mason School</i>
OLIVE S. CARSON.....	<i>Supervisor of Primary Grades</i>
MRS. JANE S. BARNHARDT.....	<i>Art</i>
R. H. WATERHOUSE.....	<i>Director of Trade Extension</i>
MRS. AGATHA S. HOWES.....	<i>Kindergarten</i>
NELLIE L. GLOVER.....	<i>Public School Music</i>
PRISCILLA DACKERMAN.....	<i>Assistant Supervisor of Music</i>
CHARLES E. BRYANT, A. B.....	
.....	<i>Principal of Spicer Observation School</i>

Supervisors of Practice Teaching

MRS. AGATHA S. HOWES.....	<i>Kindergarten-Primary</i>
HELEN KELLEY.....	<i>Second and Third Grades</i>
ALICE McARTOR.....	<i>Fourth and Fifth Grades</i>
DOROTHEA DERRIG.....	<i>Fifth and Sixth Grades</i>
MILDRED LAWRENCE.....	<i>Geography and Science</i>
MRS. ADDIE SERPASS.....	<i>Nature Study and Elementary Science</i>
LENORA O'DAY.....	<i>Auditorium</i>
HELEN POE.....	<i>Physical Education</i>
MRS. EVELYN SILLS.....	<i>Elementary Music</i>
GERTRUDE MORRIS.....	<i>Home Economics</i>
FEEN CARTER.....	<i>Home Economics</i>
LUCRETIA OLIN.....	<i>Home Economics</i>
ALETHA TODD.....	<i>Home Economics</i>
RUTH J. BRADLEY.....	<i>High School English</i>
MILDRED BURNS.....	<i>High School English</i>

*Part-time instructors.

GLADYS MASON.....*High School English*
 C. E. HILBISH.....*High School Mathematics*
 MRS. ESTHER S. BURRELL.....*High School Mathematics*
 T. P. WEBSTER.....*High School Biology*
 MRS. BLANCHE BRADY.....*High School Biology*
 S. B. MOUL.....*High School Chemistry*
 BLANCHE PEASE.....*Critic in Third Grade*
 HELEN JOHNSON.....*Critic in Second Grade*

Fellows in Chemistry

ARTHUR CHRISTIAN KRUEGER, B. S.
University of Wisconsin
 SAMUEL MANER MARTIN, Jr., B. S.
Clemson College, S. C.

Student Assistants

JOSEPH B. LITTMAN.....*Bureau of City Tests*
 DOROTHY CADDEN.....*Business Administration*
 CLYDE F. TILEY.....*Business Administration*
 THEODORE P. EBERHARD.....*English*
 MARGARET F. FANNING.....*English and French*
 EULALIA FRAMPTON.....*English*
 KATHLEEN MASTERSON.....*English*
 MARY JANE ROTHROCK.....*English*
 ALICE G. TUCKER.....*English*
 HARRY N. VAN BERG.....*English*
 DORA NICE HARPER.....*History*
 GRETCHEN C. BECK.....*Library*
 BYRON H. LARABEE.....*Library*
 NELLIE MILLER.....*Library*
 HAROLD MONG.....*Library*
 MARY SHUMAN.....*Library*
 SARA WILKINSON.....*Library*
 CARL S. ALEXANDER.....*Military Science and Tactics*
 EDWARD KRAUS.....*Physics*
 HOWARD M. DOUTT.....*Political Science*
 DOROTHY SHREVE.....*Political Science*
 ESTHER HOLLINGSWORTH.....*Romance Languages*
 LULU SMITH.....*Romance Languages*
 DONOVAN VAN BUSKIRK.....*Romance Languages*
 BESSIE LIZAWETSKY.....*Teachers College*
 MYRTLE SIRDEFIELD.....*Teachers College*

COMMITTEES OF THE GENERAL FACULTY

1923-1924

Executive

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

Entrance

SCHMIDT, SPANTON, BANKES, STIMMEL, McJOYNT

Classification

Buchtel College—PLOWMAN, SPANTON, CRECRAFT, EGBERT,
JONES, HOUSEHOLDER, BALDWIN, SCHMIDT, REED,
LIPSCOMBE, FOX, ROGERS

College of Engineering and Commerce — PLOWMAN,
McJOYNT, AND DEPARTMENT HEADS

Curtis School of Home Economics—PLOWMAN, STIMMEL,
STINSON

Teachers College—PLOWMAN, BANKES, HAYES, KUHNES

Evening Session—SIMMONS, BANKES, PEASE, CRECRAFT,
McDERMOTT, HAYES, REED, McEBRIGHT

Public Speaking

McEBRIGHT, McDERMOTT, THOMPSON, MARSH,
HALLENBECK

Social

THOMPSON, TYDINGS, WALTHER, REED, C. H. SMITH,
C. R. SMITH, MITCHELL

Holiday Observance

REED, DeLEONE, COOLEY, NEWLIN, DUNCKLEY, AND CLASS
ADVISERS

Athletics

AYER, SEFTON, C. R. OLIN, MOORE, SAYGER

Student Affairs

(Council, Honor System, Elections, Advisers, etc.)
SIMMONS, THOMPSON, HAYES, GRIFFIN, SHARER

Library

HOUSEHOLDER, HAYES, FINDLEY, CUSHMAN, DEHN,
J. BULGER, TAILLIART

Scholarship and Honors

ROCKWELL, STIMMEL, C. H. SMITH

Extension Lectures

ROCKWELL, McJOYNT, KUHNES

University Assembly

DURST, GILMOUR, R. J. ANDERSON, GRISMER, DAVIES,
D. E. ANDERSON

Faculty Representatives for University Activities

FRESHMAN CLASS	SIMMONS
SOPHOMORE CLASS	CRECRAFT
JUNIOR CLASS	MOORE
SENIOR CLASS	SPANTON
MEN'S CLUB ROOMS	SEFTON
WOMEN'S CLUB ROOMS	THOMPSON
WOMAN'S LEAGUE	STINSON
MUSIC	DELEONE
UNIVERSITY PUBLICATIONS	VANCE

GENERAL INFORMATION

FOUNDATION

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

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

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

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

AIM OF THE UNIVERSITY

As a representative municipal institution, the University seeks to develop its units or departments into such 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 department 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 20,000 cataloged volumes and 9,000 pamphlets in addition to several hundred volumes of miscellaneous books and public documents as yet uncataloged and also a considerable collection of paper bound serials and pamphlets as yet uncounted. 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 two libraries. Cards for new books added in each are on file in the catalog of the other, and the resources of both libraries are open to students and citizens.

Bierce Library is open Monday to Friday inclusive from 8:00 a. m. to 9:00 p. m. and on Saturday until noon. It is closed on Sundays and legal holidays. Shorter hours are observed during the Summer Session and morning hours only during vacations.

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.

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.

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

Through the kindness of Rev. Irving C. Tomlinson, Class of '80, of Boston, Mass., two prizes of \$30.00 and \$20.00 respectively will be offered each year to those two students of the University who present the best papers on 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 Akron whose graduates during the preceding year had made the best scholastic record at the Municipal University. By the terms of the gift, the cup became the permanent property of the school which first won it three times. Later Mr. Loomis donated a second cup for which contests are now being held. The winners of all contests are as follows:

The First Loomis Cup—

- 1915-16 won by West High School.
- 1916-17 won by South High School.
- 1917-18 won by South High School.
- 1918-19 won by South High School.

The Second Loomis Cup—

- 1919-20 won by West High School.
 - 1920-21 won by South High School.
 - 1921-22 won by West High School.
 - 1922-23 won by South High School.
-

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 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 is to teach the student how to learn, rather than to teach him concrete facts, these courses shall not be counted for credit toward any degree.

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

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

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

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

Degrees

A statement of degrees conferred upon completion of course is given under the descriptive matter of each college. To receive a second degree in course from the University of Akron, the student must complete all requirements for the degree with a minimum of 32 semester hours of work not counted for the first degree.

FREE TUITION

Tuition at the University of Akron shall be free to all students under 21 years of age 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

Many organizations have been formed among the students of the University: Among them are:

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 Bryce Club; the German Club; the Psychology Club; the Spanish Club; the R. L. S. Q. Club (literary); the Musical Organizations; the class organizations; the Commons Club, and a number of professional honor fraternities.

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

THE BUREAU OF STUDENT EMPLOYMENT

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

PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary fraternity, founded for the purpose of encouraging high scholarship among the students of the Liberal Arts College. No student 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 or higher in the Liberal Arts College, whether first, they are completing the regular four-year course, or second, they have come to Akron from other institutions and have completed two and a half years of work here.

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.

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.

Scholarship Requirements

The following rules on scholarship requirements for all applicants for the Freshman class have been adopted by the faculty:

1. Grades averaging below 80% for each full year carried shall not be accepted in subjects taken by the student in his third and fourth years in high school. This rule shall not be retroactive and shall apply only to grades received after September, 1923.

2. On each certificate of grades, under the heading "Comments of the Principal," there shall be a blank space in which the Principal shall so state if he feels that a student, who would be rejected under the provision of Section 1, should be recommended for entrance to college.

3. Each certificate shall state whether the student belongs to the lower third, middle third, or upper third of his class.

4. Students refused college entrance under the above rules, who desire to take entrance examinations in the subjects in which they are deficient must notify the Chairman of the Entrance Committee in writing to that effect before August 15 for the first semester, or before January 20 for the second semester.

TIME OF REGISTRATION AND CLASSIFICATION**1. RESIDENT STUDENTS**

Buchtel College, School of Home Economics and Teachers College

Registration and classification of Freshman resident students (except for the College of Engineering and Commerce) will begin on July 16 and will be continuous throughout the summer, daily from 9 a. m. to 4 p. m. in room 33, Buchtel Hall.

The student must present himself in person for conference with the Chairman of the Entrance Committee, and must present to him his high school record.

Registration will be limited by classes and subjects, i. e., no student will be received in any class or subject beyond the number for which the University has adequate room and teaching force. For this reason Akron students are requested to register and classify during the early part of the summer, so that they may receive first consideration and opportunity for enrollment in the regular subjects of the first year course in the day session. Students who delay registration and classification are warned that it may be impossible to assign them to the subjects desired, or that it may be necessary for them to enter classes in the Evening Session. A deposit of \$5 is required at the time of registration. This sum will be applied on fees at entrance.

College of Engineering and Commerce

New students desiring to enter the College of Engineering and Commerce must send their high school record to Dean F. E. Ayer of that college before July 1, and must hold themselves in readiness to begin practical work on July 1. No assurance of entrance can be given to those who fail to report for work before July 1.

2. NON-RESIDENT STUDENTS

Buchtel College, School of Home Economics and Teachers College

Certificates of out-of-town students may be mailed to the Chairman of the Entrance Committee at any time for examination by the Entrance Committee.

Registration and classification for non-resident students will begin on September 1 and will be subject to the following conditions: Registration will be limited by classes and subjects, that is, no student will be registered

in a class or a subject beyond the number for which the University has adequate room and teaching force. A deposit of \$5 is required at the time of registration. This sum will be applied on fees at entrance.

College of Engineering and Commerce

New students (both resident and non-resident) desiring to enter the College of Engineering and Commerce must send their high school record to the Dean of that college before July 1, and must hold themselves in readiness to begin practical work on July 1. No assurance of admission can be given to those who fail to report for work before July 1.

3. THE EVENING SESSION

Registration for the Evening Session will begin on July 16 and will be continuous for residents and non-residents throughout the summer, daily from 9 a. m. to 4 p. m. in room 33, Buehtel Hall.

FINAL REGISTRATION DAYS

The Final Registration Days are:

Day Session in all departments except the College of Engineering and Commerce, September 15 and 16 for the first semester and January 24 for the second semester.

College of Engineering and Commerce, September 15 for the first section and September 29 for the second section. However, no assurance of admission can be given to students who do not present themselves in readiness to begin work on July 1.

Evening Session, September 17.

Advanced Credit

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.

No student will be received on transfer from another college or university who does not meet the scholastic requirements of this institution.

Special Students

Students over twenty-one years of age, even though they have not fulfilled the entrance requirements, 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 are not pursuing a regular course in candidacy for a degree.

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 Artspage 47
 College of Engineering and Commerce, page 87
 Curtis School of Home Economicspage 110
 Teachers Collegepage 119
 Evening Sessionpage 162

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	Latin1 to 4 units
Foreign Language (not more than 6 units in all)	French1 to 4 units
Greek1 or 2 units	German1 to 4 units
	Spanish1 or 2 units

History, Social Sciences, and Civics (not more than 4 units in all)	Science (not more than 4 units in all)
Adv. U. S. Hist. $\frac{1}{2}$ or 1 unit	Physics1 unit
English History $\frac{1}{2}$ or 1 unit	Chemistry1 unit
General History1 unit	Zoology $\frac{1}{2}$ or 1 unit
Ancient History1 unit	Botany $\frac{1}{2}$ or 1 unit
Medieval and Mod- ern History1 unit	Physiology $\frac{1}{2}$ unit
Civics $\frac{1}{2}$ unit	Physiography $\frac{1}{2}$ or 1 unit
Political Economy $\frac{1}{2}$ unit	General Science1 unit
Mathematics2 $\frac{1}{2}$ to 4 units	Vocational Subjects (not more than 3 units in all)
Algebra1 to 2 units	Manual Arts1 to 3 units
Geometry, Plane1 unit	Domestic Science1 to 3 units
Geometry, Solid $\frac{1}{2}$ unit	Com'l Subjects1 to 3 units
Trigonometry $\frac{1}{2}$ unit	Agriculture $\frac{1}{2}$ or 1 unit

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, subject to scholarship requirements already stated.

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

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

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

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

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

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

French, 1, 2, 3, or 4 Units

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

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

Two Years. In addition to the above, the candidate should know accurately all irregular verbs in common use,

and should be able to read a page of French with accurate pronunciation. He should have read at least four hundred pages of various authors, which should include one or two classic dramas. He should have had some practice in writing from dictation, and should be able to translate ordinary English prose into French.

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

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

Spanish, 1 or 2 Units

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

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

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

HISTORY, CIVICS AND POLITICAL ECONOMY

Advanced U. S. History, ½ or 1 Unit

General History, 1 Unit

English History, ½ or 1 Unit

Ancient History, 1 Unit

Medieval and Modern History, 1 Unit

Civics, ½ Unit

Political Economy, ½ Unit

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

MATHEMATICS**Algebra, 1½ or 2 Units**

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

Geometry, 1 or 1½ Units

Plane or Plane and Solid Geometry. The set propositions required are those found in the older text-books. Among the topics required may be mentioned: plane 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, together with laboratory practice for two hours per week and a note-book containing an account of all experiments made by the student's own hands, with sketches of the apparatus used.

Zoology, ½ or 1 Unit**Botany, ½ or 1 Unit****Physiology, ½ Unit**

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

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

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

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

GENERAL REGULATIONS

The Term-Hour—The unit of instruction is one hour per week for one semester. Three hours of laboratory work (including time for writing reports) shall be considered as equivalent to one recitation hour with preparation therefor. This unit is known as a "term hour."

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

Election of Subjects in other Schools of the University

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

Students in Buchtel College may elect a total amount of not more than twenty hours work in other schools or colleges of the University to be applied toward the re-

quirements 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.

GRADING SYSTEM

93-100 inclusive	Excellent	A
85- 92 "	Good	B
77- 84 "	Fair	C
70- 76 "	Poor	D
65- 69 "	Condition	E
Below 65	Failed	F
Incomplete		I

The grade "I" shall be construed to mean that some portion of the semester's work has been omitted. Upon the satisfactory completion of the omitted work during the first two weeks of the following semester this grade may be converted into a grade other than E or F. Failure to complete the omitted work in a satisfactory manner within the prescribed time shall convert the grade to F.

The grade E (Conditioned) may be converted into a grade not higher than D upon the satisfactory completion of work prescribed by the instructor. Conditions not removed during the following semester automatically become a grade of F.

No student shall be allowed credit toward graduation for more than thirty-two credit hours of D grade work.

*RULES REGARDING FAILURE

First Year Students

Any first year student failing to receive credit for at least eight semester hours with a grade other than E or F at the end of any semester shall be dropped from the University for the following semester.

Any first year student failing at the end of any semester to receive credit for at least 11 semester hours with a grade other than E or F shall be placed upon probation during the following semester.

*For all Colleges except the College of Engineering and Commerce.

Failure of any first year student while under probation to pass 11 semester hours at the end of this semester with a grade other than E or F shall exclude the student from the University for the following semester.

Any first year student electing eight hours or less must receive a grade other than E or F in all work taken or be dropped from the University for the following semester, unless allowed to continue by special action of the faculty.

Upper Classmen

Any student who has been in attendance at this institution or at any other college or university for one year or more who fails, at the end of any semester, to receive credit for 11 semester hours with a grade other than E or F, shall be dropped from the University for the following semester.

Any such student electing eleven hours or less must receive a grade other than E or F in all the work taken or be dropped from the University for the following semester, unless allowed to continue by special action of the faculty.

CONDITIONS FOR RE-ENTERING

A student dropped from the University under these rules may be given one opportunity to re-enter after not less than one semester's absence. It shall, however, be understood that the faculty may, at its discretion, prescribe such study, preparation, or examination as it believes necessary for re-entrance. The student shall, on re-entering, be placed on probation, and may be finally dropped at the end of any six-week period during which his grades do not meet the standards indicated in the rules regarding failure.

FEEES

Resident Students—All students who are residents of the City of Akron according to the rules adopted by the Board of Directors (see "Free Tuition," page 27), or whose parents are residents of Akron, are entitled to free tuition at the University. They are, however, required to pay a maintenance fee, (See page 41), covering registration, incidentals and student activity fee. 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 tabulated below. 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 tabulated below. Fees to cover breakage and materials are also charged to all students in laboratory courses.

All fees are payable at the Secretary's office as a part of the registration, and before the student enters any classes.

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:

For 9 hours or more	\$90.00
For less than 9 hours, per hour	9.00

Maintenance Fee:

Payable by resident and non-resident students.

	First Sem.	Second Sem.
For 8 hours or more per week.....	\$23.00	\$18.00
For 7 hours per week.....	22.00	17.00
For 6 hours per week.....	20.00	15.00
For 5 hours per week.....	18.00	13.00
For 4 hours per week.....	16.00	11.00
For 3 hours per week.....	14.00	9.00
For 2 hours per week.....	12.00	7.00
For 1 hour per week.....	10.00	5.00

All persons registering or classifying 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 or classification.

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

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

A fee of \$1.00 per subject, with a maximum of \$5.00, will be charged for entrance examinations taken on days other than those specified, and \$5.00 for each examination in college work not taken in course.

Students registering prior to September, 1923, will be subject to the increased fees if out of college for one year or more.

Graduation fee in all colleges, payable one week before graduation, \$5.00.

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. The University maintains a Bureau

of Student Employment which helps new students in getting work for odd hours, evenings and on Saturdays. The demand for such student aid on the part of Akron citizens is usually larger than the University can supply.

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

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

The University offers a number of student assistantships in various departments to upper classmen. Such positions pay thirty-five cents per hour for time spent. All inquiries regarding self help for men should be addressed to the Bureau of Student Aid; for women, to the Dean of Women.

BUCHTEL COLLEGE OF LIBERAL ARTS

Buchtel College was founded as a College of Liberal Arts in 1870 by the Ohio Universalist Convention in co-operation with the Hon. John R. Buchtel. It became a part of the Municipal University of Akron, 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. MCCOLESTER, D. D. Litt. D.1872-1878
- *E. L. REXFORD, D. D.1878-1880
- *ORELLO CONE, D. D.1880-1896
- C. M. KNIGHT, Sc. D. (ad interim)1896-1897
- I. A. PRIEST, D. D.1897-1901
- *A. B. CHURCH, D. D., LL. D.1901-1912
- P. R. KOLBE, Ph. D.1913-

*Deceased.

ENDOWMENTS**Messenger Professorship**

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

Hilton Professorship

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

Pierce Professorship

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

Buchtel Professorship

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

Ainsworth Professorship

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

Ryder Professorship

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

Messenger Fund

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

Isaac and Lovina Kelly Fund

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

William Pitt Curtis Fund

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

Crosley Library Fund

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

**PERPETUAL SCHOLARSHIPS IN
BUCHTEL COLLEGE**

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

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

*Deceased.

†In honor of her father, Eliphas Burnham.

- *MRS. JANE BETZ (2)Hamilton
- *†MISS HANNAH ALLYNAkron
- *MRS. ROSA G. WAKEFIELDGreen
- *MARTHA A. BORTLEHamilton
- ††DELIA LORING MORRISBelpre

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

*Deceased.

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

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

ENTRANCE REQUIREMENTS

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

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

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

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

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.

†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 21.

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

FRESHMAN STUDIES

THE A. B. COURSE

Rhetoric	3 credit hours each semester—required	
American Government	4 credit hours each semester—required	
Physical Training (women)	1 credit hour each semester—required	
Physical Training and Military Drill (men)	2 credit hours each semester—required	
Freshman Lectures	½ credit hour first semester—required	
French	3 or 4 credit hours each semester	} one re- quired
Spanish	3 or 4 credit hours each semester	
German	3 or 4 credit hours each semester	
Latin	4 credit hours each semester	
Greek	4 credit hours each semester	
*Mathematics	4 credit hours each semester—required	
Current Events	1 credit hour second semester required for women	

THE B. S. COURSE

Rhetoric	3 credit hours each semester—required	
Mathematics	4 credit hours each semester—required	
Physical Training (women)	1 credit hour each semester—required	
Physical Training and Military Drill (men)	2 credit hours each semester—required	
Freshman Lectures	½ credit hour first semester—required	
†Chemistry	4 credit hours each semester	} one re- quired
†Physics	4 credit hours each semester	
†Biology	4 credit hours each semester	
French	3 or 4 credit hours each semester	} one re- quired
Spanish	3 or 4 credit hours each semester	
German	3 or 4 credit hours each semester	
Current Events	1 credit hour second semester required for women	

*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.

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

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

MAJORS AND MINORS

At the end of the freshman year the student is asked to indicate to the Committee on Classification whatever line of work he may wish to pursue. This subject is then known as the "major." Each major brings with it a number of required "minor" subjects. All work beyond the freshman year and outside the major and minor requirements is elective, 16 hours per semester being counted as regular work.

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

MAJORS LEADING TO THE A. B. DEGREE:

- I. **Greek and Latin.** A minimum of 40 hours, at least 14 of which must be Greek.
- II. **Latin.** A minimum of 32 hours.
- III. **German and French.** A minimum of 20 hours of each.
- IV. **Romance Languages.** A minimum of 40 hours (20 hours each of French and Spanish).
- V. **Philosophy and Sociology.** Thirty hours.
- VI. **Economics and Political Science.** A minimum of 24 hours.
- VII. **History.** A minimum of 24 hours.
- VIII. **English.** A minimum of 30 hours.

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	6	6	6	6	6	6	6	6
2. Human Biology.....	6	6	6	6	6	6	6	6	6	6	6	6
3. History.....	6	6	6	6	6	6	6	6	6	6	6	6
4. Philos. or Sociology.....	6	6	6	6	6	6	6	6	6	6	6	6
5. Econ. or Pol. Sci.....	6	6	6	6	6	6	6	6	6	6	6	6
6. †Modern Language.....	6	6	6	6	6or8	6or8	6	6	6	6	6	6
7. †Foreign Language.....	6	6	6	6	6	6	6	6	6	6	6	6
8. Public Speaking.....	6	6	6	6	6	6	6	6	6	6	6	6
9. *Biology.....	6	6	6	6	6	6	6	6	6	6	6	6
10. *Chemistry.....	6	6	6	6	6	6	6	6	6	6	6	6
11. *Physics 331 and 332.....	8	8	8	8	8	8	8	8	8	8	8	8
12. Soph. Math.....				9								
13. Classical Masterpieces.....												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.

¹ Must be History of England.

² Must be Psychology.

³ 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.

FEEES

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	2.00
Biology 401-404, 411-412, 426, 434	2.50
Biology 419-420	4.00
Biology 423-424, per semester hour	1.00
Biology 419-420, breakage deposit	5.00
*R. O. T. C. Deposit fee	10.00

DEPARTMENTS OF INSTRUCTION

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

Subjects	Course Numbers
Ancient Languages	1- 50
English	51-100

*Returnable on leaving R. O. T. C. with deduction for ment damaged or lost.

German	101-150
Romance Languages	151-200
Philosophy and Sociology	201-250
Economics, Political Science, History	251-300
Mathematics	301-330
Physics	331-350
Chemistry	351-400
Biology	401-450
Physical Education	
Military Science and Tactics	
Music	

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

GREEK

PROFESSOR ROCKWELL

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

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

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

CLASSICAL ARCHEOLOGY

PROFESSOR ROCKWELL

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

- *17-18. **History of Greek Sculpture (Both Semesters)** Three hours. Not given 1924-1925.
19. **Classical Mythology (First Semester)** Two hours.
24. **The Influence of Greece and Rome on Modern Life (Second Semester)** Two hours.

*Open only to juniors and seniors.

BUCHTEL COLLEGE

LATIN

PROFESSOR BOOKWELL

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

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

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

25. **Cicero [De Amicitia]; Ovid [Metamorphoses, Books I and II] (First Semester)** Four hours. Required of freshmen in Majors I and II.

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

26. **Pliny [Selected Letters] (Second Semester)** Four hours. Required of freshmen in Majors I and II.
27. **Livy [Books XXI-XXII] (First Semester)** Three hours. Courses 27 and 28 are open to students who have completed 25 and 26.
28. **Terence [Andria]; Horace [Odes and Epodes] (Second Semester)** Three hours.
29. **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.

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
PROFESSOR PEASE
MR. NEWLIN
MISS MITCHELL
MR. GRISMER
MR. VANCE
MRS. MACKINNON
MISS CUSHMAN

Major: For a major in English a minimum of 30 hours is required; that is, 24 hours in addition to Rhetoric 51 and 52. These 24 hours include, of strictly composition courses, Advanced Composition 55 and 56 or Editing 59 and 60; but not both.

*Open only to juniors and seniors.

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 write news for publication. 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.

*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 C 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.

55. Advanced Composition (First Semester)

Study of the short-story with wide illustration.
Text-book: Pitkin's Short-Story Writing.
51 and 52.

56. Advanced Composition (Second 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, 55.

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

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

LANGUAGE AND LITERATURE

Required Work: In addition to the required work in Rhetoric, students in all courses must take at least six hours 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. Introduction to Literature: Types of Prose (First Semester) Three hours.

This course and 64 stress literary types and characteristics rather than the historical development of English literature. They are 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.

64. Introduction to Literature: Types of Poetry (Second Semester) Three hours.

This course and 63 constitute the regular minor requirement in English for students not majoring in the department.

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

A 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.

Courses 65 and 66 constitute the regular sophomore requirement for students majoring in English.

66. History of English Literature (Second Semester) Three hours.

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.

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

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

68. Word Study (Second Semester) Three Hours.

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

69. Shakspeare (First Semester) Three hours.

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

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

*Open only to juniors and seniors.

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.

*71. **Tennyson and Browning (First Semester)** Three hours. Prerequisite, 65 and 66.

*72. **History of the English Language (Second Semester)** Three hours. Prerequisite, 65, 66, 67.

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

Wordsworth, Coleridge, Byron, Shelley, Keats, De Quincey, Lamb, and their contemporaries. Prerequisite, 65 and 66. Not given 1924-1925.

*74. **Victorian Literature (Second Semester)** Three hours.

A study of the best work of the leading British authors of the Victorian Age, exclusive of the novelists and Tennyson and Browning. Prerequisite, 65 and 66. Not given 1924-1925.

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

The development of prose fiction to 19th century. Study of the evolution of the novel as a distinct literary type as illustrated in the stories popular in Saxon, Medieval, Elizabethan, Puritan, and Restoration Periods. The 18th century novel. Reading of important works. Prerequisite, 65 and 66. Not given 1924-1925.

*80. **English Fiction (Second Semester)** Continuation of Course 79.

Study of 19th and 20th century fiction with special emphasis upon the work of living writers. Prerequisite, 65 and 66. Not given 1924-1925.

*81. **Versification (First Semester)** Three hours.

A course in appreciation of the artistic values in verse, and written practice in the forms of metrical composition. Models of the best English verse will be studied as examples of verse forms and variants. According to the

*Open only to juniors and seniors.

ability of the class, assignments will be made in original verse or in verse imitations and exercises. Prerequisite, 65 and 66.

***82. Modern Drama (Second Semester) Three hours.**

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.

***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. Required minor for English major. Prerequisite, 65 and 66.

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

Continuation of 83. Required minor for English major. Prerequisite, 83.

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.

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

In recent years Story Telling has become a significant movement in the field of education. This is because of the growing feeling that the study and practice of story-telling, of how to tell the right story at the right time in the right way, probably develops in the student the power of self-expression more than does any other form of speech education. The course covers the history, uses, materials, and technique of story-telling. Recitations, speeches, conferences. Dramatization once a month.

62. Use of the Library (Second Semester) Two hours.

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.

*Open only to juniors and seniors.

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 merce.

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

*94. **(Second Semester)**

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

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

The Dramatic Study Club meets once a week for class work. Students who have had at least the elementary course or its equivalent are eligible to this class. Each member pledges himself not only to the class but to all

*Open only to juniors and seniors.

rehearsals called by the President of the Study Club, or by the Instructor in Speech. This club presents publicly all plays rehearsed. At least two plays a year will be presented.

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

97-98. **Physical and Voice Work (Both Semesters)** One hour. Open to all upper classmen.

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

MODERN LANGUAGES

PROFESSOR BULGEE
ASSISTANT PROFESSOR REED
MR. TAILLIART
MISS ROGERS
DR. BALDWIN
DR. KOLBE

Language in General: 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).

FRENCH

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

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

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

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

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

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 details see the Bulletin under Spanish in the College of Engineering and Applied Science.

GERMAN

- 101-102. **First Year German (Both Semesters)** Four hours.
- 103-104. **Second Year German (Both Semesters)** Three hours. Prerequisite, 101-102.
- 107-123. **Advanced German.** Three hours thru the year.

At least one of the following advanced courses will be offered: 107-108, **Goethe**; 111-112, **History of German Literature**; 115-116, **Schiller**; 123, **Lessing**; and 118, **Modern Drama**. Prerequisite, 103 and 104.

PHILOSOPHY AND SOCIOLOGY

PROFESSOR OLIN

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

- *201-202. **Psychology (Both Semesters)** Three hours.

Text-book: Pillsbury's Psychology.

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

- *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.

*Open only to juniors and seniors.

205. Logic (Second Semester) Three hours.

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

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

Text-book: Fletcher's Introduction.

An introductory course in the nature of reality and knowledge, the categories of understanding, and the relation of consciousness to the external world. Prerequisite, Psychology 201-202.

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

Text-book: Blackmar and Gillen.

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

***216. Sociological Problems (First Semester) Three hours.**

Lecture course with field work.

A detailed study of such social problems as housing, poverty, crime, education, population, etc. Lecture course, with field work. Prerequisite, 213-214.

POLITICAL SCIENCE AND ECONOMICS

PROFESSOR GRECRAFT
MR. HALLENBECK
DR. DEHN

Major: Twenty-four hours constitute a major.

261. American Government (First Semester) Four hours.

Required of all freshmen in A. B. courses.

A study of the origin, development, structure, and activities of the national government. Nature and problems of government; interstate relations; rights and duties of citizenship; the presidency; administration; legislation; the judiciary; national parties; control over territories. Also offered the second semester.

262. American Government (Second Semester) Four hours.

Required of all freshmen in A. B. courses.

Work of the states; composition of the state governments; recent tendencies in activities on the part of

*Open only to juniors and seniors.

states; reform in state administration; problems of administration and legislation; legislative methods; state elections; state taxation and finance; popular control over state government; local government; state and local politics. Also offered the first semester.

263. Municipal Government (First Semester) Three hours.

A study of the development of municipal government; relations with state governments; limitations on municipal powers; extent of municipal authority; city elections; city charters; popular control over city government; modern tendencies in municipal organizations and government. Open to all upper classmen.

264. Municipal Administration (Second Semester) _____ hours.

The organization of the municipal administration; city planning and public works; public safety; public health and social welfare; public utilities; municipal finance. Open to all upper classmen.

265. International Law (First Semester) Three hours.

The rules and customs which determine the conduct of nations in peace, war, and during neutrality. Past, present, and proposed methods of conducting international relations. Prerequisite, 261 and 262.

266. Constitutional Law (Second Semester) Three hours.

The development of the constitution through cases and judicial interpretation. Text-book: Hall's Case Book on Constitutional Law. Prerequisite, 261 and 262.

268. World Politics (Second Semester) Two hours.

An introduction to the study of world politics. Topics bearing on international political relations are included. Progress towards international organization. Text-book: Gibbons' Introduction to World Politics. Prerequisite, 261 and 262.

269. Political Parties (First Semester) Three hours.

An objective study of the American political party system. Prerequisite, 261 and 262.

270. Municipal Corporations (Second Semester) Three hours.

An introduction to the law of public corporations by the case book method. The legal interpretation of city charters, state laws affecting cities, city ordinances, and the like. Text-book: Cooley's Cases on Municipal Corporations. Prerequisite, 261 and 262.

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

A survey of the business and economic activities of the national and state governments. The problem of government control and regulation. Relations of business and economic interests to government. Prerequisite, 261, 262, and 251.

ECONOMICS

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

Basic principles and concepts in economics. The production, consumption, exchange, and distribution of wealth. This course or its equivalent is required for entrance to the other courses in economics. Repeated the second semester.

253. The Trust Problem (First Semester) Three hours.

The development of large combinations in the industrial and commercial field, and the problems of social control. Text-book: Jones' The Trust Problem. Prerequisite, 251.

254. Labor Problems (Second Semester) Three hours.

A survey of the principal developments in the labor movement. The extent of the interest of the public in the labor movement. Prerequisite, 251.

256. Public Finance (Second Semester) Three hours.

A study of the field of national, state, and local taxation. Public expenditures and public debts. Prerequisite, 251.

Other courses in economics will be offered from time to time in the following.

Transportation Problems.

Foreign Commerce of the U. S. and the Tariff.

Organized Banking.

HISTORY

PROFESSOR THOMPSON

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

In courses 273-4, 275-6, 277-8, 283-4, 285-6 and 287-8, 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)** Two 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; 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)** Two hours.

278. **American History from 1850 to the Present Time (Second Semester)** Two hours.

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.
 281. **Ancient History—Eastern Nations and Greece (First Semester)** Two hours.
 282. **Ancient History—Rome (Second Semester)** Two hours.

Courses 281 and 282 are open to all upper classmen.

283. **Political Geography (First Semester)** Two hours.
 A study of the problems in political geography and history which are the effects of the Great War. Prerequisite, 273-274 or 275-276.

284. **Political Geography (Second Semester)** Two hours.
 Continuation of 283.

285. **The Renaissance and the Reformation (First Semester)** Two hours.

An advanced course. A study of the problems of the Reformation Period. Prerequisite, 271-272 or 275-276.

286. **The Renaissance and the Reformation (Second Semester)** Two hours.

Continuation of 285.

287. **Constitutional History of England (First Semester)** Two hours.

A study of the growth of the British Constitution. Prerequisite, 273-274. Not offered 1924-1925.

288. **Constitutional History of England (Second Semester)** Two hours.

Continuation of 287. Not offered 1924-1925.

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.

Review of elementary algebra; surds; linear and non-linear systems of equations; proportion and variation; inequalities; mathematical induction and binomial theorem; logarithms; theory of equations. 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. 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 m 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) Three hours.

The history of the invention and development of the notions, language, symbols, and methods of mathematics to the time of the invention of the Calculus. Prerequisite, 301 and 302.

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

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

***320. Descriptive Astronomy (First Semester) Three hours.**

Celestial sphere, astronomical instruments, elementary celestial mechanics, solar system, fixed stars, double stars, nebulae, constellations. Prerequisite, 301 and 302.

***321. Descriptive Astronomy (Second Semester) Three hours.**

Continuation of 320.

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

Major: Thirty hours of Physics. These courses or their equivalent must be included: 331, 332, 333, 334, 335, 336, 336a, 337, 338, and 339.

Minors: Literature 6 hours, History 6 hours, Philosophy or Sociology 6 hours, Economics or Political Science 6 hours, Public Speaking 3 hours, Biology 8 hours, Chemistry 8 hours; two years of foreign language, preferably German; and Mathematics 301, 302, 303, 304, and 305.

Laboratory credits are figured on the basis of one credit hour for each three hours of laboratory work, including time spent in preparing the reports.

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.

*Open only to juniors and seniors.

333. **Heat (First Semester)** Four 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. Two recitations and six hours of laboratory work per week. Prerequisite, 331 and 332.

334. **Electricity and Magnetism (Second Semester)** Four 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 for direct currents. Two recitations, and two laboratory periods per week. Prerequisite, 331 and 332.

335. **Elementary Light (First Semester)** Four 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. Prerequisites. Two recitations and six hours of laboratory work per week.

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. Special emphasis on the part played by optics in present-day research. Three recitations per week. Prerequisite, 331, 332, 333, 334, and 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.

337. **Electrical Measurements (Either Semester)** Three hours.

A continuation of 334, including measurements in capacitance, inductance, oscillating currents, and conduc-

tion through gases. One lecture and two laboratory periods per week. Prerequisites, 331, 332, and 334.

338. **Thesis Course.** Two hours.

An individual problem course intended to give seniors the opportunity to carry on an extensive study of some particular problems that shall have arisen in connection with 333, 334, 336, 337, or 340.

339. **Electron Theory and Its Application (First Semester)** Two hours.

A review of the experimental evidence that has led to the establishment of the electron theory of electricity and its use in the explanation of phenomena in every day life. Prerequisites, 336 and 337. Two lectures per week.

340. **Elementary Principles of Wireless Telegraphy (Second Semester)** Two or three hours.

A discussion of the Elementary principles of wireless telephony and telegraphy with laboratory practice in the determination of the characteristics of crystal detectors and vacuum tubes, and the measurement of capacitance, inductance, wave lengths, logarithmic decrements, etc. One lecture and one or two laboratory periods per week.

342. **Physical Measurements (Either Semester)**

An advanced course in physical measurements open to advanced students only. Hours to be arranged and credits granted according to work done.

343. **Modern Physical Theories (Either Semester)** Two hours.

A lecture and reading course intended to aid the student in keeping abreast with the newer developments in the physical sciences. Open only to advanced students.

781-782. **Mechanics** (Freshman course)

783-784. **Mechanics** (Sophomore course)

785. **Heat and Light.**

These courses, 781 to 785, are given only for students in co-operative engineering courses. For description see under Physics in the College of Engineering and Commerce.

THE COURSE IN PHYSICS

The following course is submitted for those students who plan to major in Physics, and will be adhered to as closely as possible.

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Rhetoric 51	3	Rhetoric 52	3
Mathematics 301	4	Mathematics 302	4
Physics 331	4	Physics 332	4
Modern Language	3 or 4	Modern Language	3 or 4
Physical Training	2	Physical Training	2

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Mathematics 303	4	Mathematics 304	5
Physics 333	4	Physics 334	4
Modern Language	3 or 4	Modern Language	3 or 4
Physical Training	2	Physical Training	2

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Mathematics 305	5	Physics 336	3
Physics 335	4	Physics 336a	2
Chemistry 353	4	Chemistry 354	4
Electives		Electives	

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Physics 337	3	Physics 339	2 or 3
Biology 401	4	Biology 402	4
Electives		Electives	

CHEMISTRY

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

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

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

352. Qualitative Analysis (Second Semester) Seven hours.

Four recitations and three laboratory 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.

353. 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.

354. 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.

359. Quantitative Analysis (First Semester) Four hours.

One recitation and three laboratory periods. Open to those who have satisfactorily completed 352 or its equivalent. By a list of selected experiments the student's quantitative technique is developed. The experiments illustrate both gravimetric and volumetric methods and many additional stoichiometric exercises.

360. 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 this course.

***357. Organic Chemistry (First Semester)** Three hours.

Two recitations and one laboratory period. A discussion of the various methods of chemical synthesis of organic compounds, together with a study of their properties, purifications, uses, and identification. Topics studied include hydro-carbons, alcohols, acids, aldehydes, halogen, derivatives, carbohydrates, amines, and amides.

*Open only to juniors and seniors.

***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.

***371. Physical Chemistry (Senior Year, First Semester) Three hours.**

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

*Open only to juniors and seniors.

***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 and Commerce.

742. Inorganic Chemistry (Second Semester)

Continuation of 741.

744. Metallurgy (Second Semester) Three hours.

For description see Chemistry in the College of Engineering and Commerce.

CHEMICAL COURSE

FRESHMAN YEAR		SOPHOMORE YEAR	
	<small>Credit Hrs. each Semester</small>		<small>Credit Hrs. each Semester</small>
Gen. Chem. 351 and 352....	7	Quan. Analysis	4
Mathematics	4	Biology	4
Mod. Language	3 or 4	Mathematics	4 or 5
Physical Training	2	Mod. Language	3
		Physical Training	2
		Rhetoric	3
JUNIOR YEAR		SENIOR YEAR	
Org. Chemistry	3	Organic Chemistry	3
Physics	4	Physical Chemistry	3
Electives.		Electives.	

BIOLOGY

PROFESSOR FLOWMAN
ASSISTANT-PROFESSOR LEATHERS
MR. FOX
MR. DARRAH

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

*Open only to juniors and seniors.

Minor requirements are stated on page 50.

Students who wish to major in this department should 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.

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 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.

*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.

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

Three recitations per week. Men's course. 1924-1925 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) Three 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 Physiology 407-408.

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

Similar to 413-414, but especially adapted to meet the needs of college women. Required of all sophomore women, candidates for the A. B. degree, except such as elect Physiology 409-410.

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 bac-

teriology, the relations of bacteria to man, laboratory technique, and the elements of pathology. Prerequisite, 401-402.

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 three hours of laboratory work per week.

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.

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

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

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

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

A six-acre athletic field is provided for the use of the men students, and all intercollegiate and other games and meets are held there. The field is equipped with a grandstand, dressing rooms, cinder running track, baseball diamond, and football field with seats to accommodate 8,000 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 WM. L. TYDINGS, PROFESSOR
FIRST LIEUTENANT CHARLES E. SMITH, ASSISTANT PROFESSOR
FIRST LIEUTENANT KENTON P. COOLEY, ASSISTANT PROFESSOR
MASTER SERGEANT HENRY METZGER, 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 throughout 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 in the federal service more than one year, or a sons of the United States. The work is given _____ 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.

Students entering this institution from other colleges or universities and claiming credit for previous military instruction, will confer with the Military Department at the beginning of the term and ascertain the amount of credit which can be given them on account of such previous military instruction. This will enable such new students to arrange their programs promptly and satisfactorily.

BASIC COURSE, 3 HOURS, FRESHMAN YEAR

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

BASIC COURSE, 3 HOURS, SOPHOMORE YEAR

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

The Advanced Course: This course consists of five hours per week (three hours' credit per semester) during the junior and senior years. It is open to all students who

have satisfactorily completed the basic course, provided they have been selected by the President of the University and the Professor of Military Science and Tactics. During this course the Government not only furnishes uniform and equipment, but also allows commutation of subsistence, which varies from time to time, at present being \$10 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 a day is allowed. On the satisfactory completion of the advanced course, the student is commissioned in the Reserve Officers' Training Corps as a Second Lieutenant. Promotions are made as in the Regular Army.

ADVANCED COURSE, 5 HOURS, JUNIOR YEAR

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

ADVANCED COURSE, 5 HOURS, SENIOR YEAR

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

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

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

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

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

PROFESSOR FRANCESCO B. DE LEONE

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 through 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 hours' credit per semester.

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

In no case shall the total credit for Music exceed seven 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 College of Engineering and Commerce, are required to attend, are given once a week through 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's credit is given.

COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., DEAN

GENERAL INFORMATION

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

In 1921 the Department of Commerce and Administration became a department of the Engineering College and the name of the latter was changed to the College of Engineering and Commerce. Business training students enrolled previous to 1923 will continue on full time; all other students must do outside work.

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 and business 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 later part of the summer.

Candidates for admission are required to spend the summers preceding their entrances, 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.

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 are offered.

INDUSTRIAL ENGINEERING

This co-operative course, which was provided for those who wished to take up the business side of engineering activity, is discontinued. Students now enrolled in the course will be permitted to complete their work and graduate. The new co-operative commercial course seems to meet the needs of students desiring to enter this field. It is possible for students in the commercial course interested in engineering to elect some engineering courses.

OUTSIDE WORK

The Department of Co-ordination 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 outside work and courses of study are co-ordinated by technically trained men experienced in professional practice. Throughout the five years of University work they will give courses whose aim is two-fold. First, they supplement the outside training by explaining the different operations, the sequence of work, the technicalities of the machine, 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 business, factory organization, and cost accounting, routing of work for efficient production, study of the conditions leading to maximum production, and the influence of work 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 Department of Co-ordination. Students are paid only for the time actually employed, and receive their wages direct, as does any other employee.

DEGREES

The degrees of Civil Engineer, Mechanical Engineer, Electrical 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.

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 79.

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.

Application blanks properly filled out and entrance credits must be submitted prior to July 1.

ENTRANCE REQUIREMENTS

The following units are required for admission:

English	3	units
Mathematics	2½	units
*Solid Geometry (engineering students)	½	unit
History	1	unit
Science	1	unit
*Foreign Language	2	units
Electives	5 or 5½	units

REGISTRATION

Full time students will register on September 15 and 16, 1924. Co-operative students in the first section will register on September 15, 1924, and those in the second section September 29, 1924.

Students registering or paying fees 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.

The payment of all fees is a part of the registration and a prerequisite to entering any classes.

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

*Students who enter with a condition in solid geometry must remove it by the end of the freshman year. Students who enter conditioned in foreign language must remove such conditions before graduation.

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 \$23.00 for the first semester and for the second semester, \$18.00 for old students, and \$20.50 for new students, covering registration, incidentals, and student activity fee. Small fees to cover breakage and materials are also charged 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 as stated above.

The tuition for all students attending college full time is \$90.00 per semester, in addition to the maintenance fee as stated above.

All fees are payable as a part of the registration and before entering any classes.

A graduation fee of \$5.00 is charged to all graduates, and is payable one week before graduation.

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
Physics 781-785, 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	3.00
Electrical Laboratory, per semester	3.00
Railroads 853	1.00
Engineering Laboratory 807, per semester	3.00

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

ESTIMATED EXPENSE OF FRESHMAN YEAR

FIRST SEMESTER

	Resident	Non-Resident
Tuition	Free	\$60.00
Fees	\$29.50	29.50
Books and Drawing Instruments	40.00	40.00
	\$69.50	\$129.50

SECOND SEMESTER

	Resident	Non-Resident
Tuition	Free	\$60.00
Fees	\$22.50	22.50
Books	8.00	8.00
	\$30.50	\$90.50

SUMMER TERM

	Resident	Non-Resident
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.

CIVIL ENGINEERING

1924-1925

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Mathematics 725	6	Mathematics 727	6
Drawing 811	4	Drawing 822	4
Physics 781	5	Physics 782	5
Engineering Laboratory 807	4	Engineering Laboratory 807	4
Co-ordination 801	2	Co-ordination 802	2
		Summer Term	
Mathematics 728	6		
Surveying 810	16		

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
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	Heat Engineering 847	5
Co-ordination 803	2	Co-ordination 804	2

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Summer Term

Mathematics 731	6
Railroads 853	8
Roofs and Bridges 851	8

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Chemistry 741	8	Chemistry 742	8
English Composition 701	4	English Composition 702	4
Physics 785	5	Strength of Materials 837..	6
Roofs and Bridges 855	4	Materials Laboratory 817..	4

Summer Term

Cement Testing 861	6
Reinforced Concrete 873	16

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English Literature 711	2	English Literature 712	2
Hydraulics 849	6	Highways 856	4
D. C. Electricity 867	6	A. C. Electricity 868	6
D. C. Laboratory 869	4	A. C. Laboratory 870	4
Concrete Design 879	6	Steel Design 874	6

Summer Term

Geology 772	6
Hygiene and Sanitation 771	16

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Bookkeeping & Accounting 1027½	6	Business Administration 1037½	6
Sewerage 881	8	Water Supply 882	8
Economics 737	6	Economics 738	6
Engineering Design 883	2	Engineering Design 884	2

MECHANICAL ENGINEERING

1924-1925

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Mathematics 725	6	Mathematics 727	6
Drawing 811	4	Drawing 822	4
Physics 781	5	Physics 782	5
Engineering Laboratory 807	4	Engineering Laboratory 807	4
Co-ordination 801	2	Co-ordination 802	2

Summer Term

Mathematics 728	6
Machine Drawing 823	16

SOPHOMORE YEAR

First Semester	Or. Hrs.	Second Semester	Or. Hrs.
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	Heat Engineering 847	5
Co-ordination 803	2	Co-ordination 804	2

Summer Term

Mathematics 731	6
Mechanical Engineering 826	16

PRE-JUNIOR YEAR

First Semester	Or. Hrs.	Second Semester	Or. Hrs.
Military Training	2	Military Training	2
Chemistry 741	8	Chemistry 742	8
Physics 785	5	Strength of Materials 837..	6
Mechanism 844	4	Materials Laboratory 817..	4
Mechanism Drawing 846	2	Mechanical Engineering 828	2
Mechanical Engineering 827	2		

Summer Term

Chemistry of Combustion 743	6
Hygiene and Sanitation 771	16

JUNIOR YEAR

First Semester	Or. Hrs.	Second Semester	Or. Hrs.
English Composition 701	4	English Composition 702	4
Metallurgy 744	6	Machine Design 845	6
D. C. Electricity 867	6	A. C. Electricity 868	6
D. C. Laboratory 869	4	A. C. Laboratory 870	4
Mechanical Engineering 829	4	Mechanical Engineering 830	4

Summer Term

Machine Design 877	12
Mechanical Engineering 831	10

SENIOR YEAR

First Semester	Or. Hrs.	Second Semester	Or. Hrs.
English Literature 711	2	English Literature 712	2
Economics 737	6	Economics 738	6
Bookkeeping & Accounting 1027½	6	Business Administration 1037½	6
Hydraulics 849	6	Thermodynamics 871	6
Mechanical Engineering 833	4	Mechanical Engineering 834	4

ELECTRICAL ENGINEERING

1924-1925

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
Drawing 811	4	Drawing 822	4
Physics 781	5	Physics 782	5
Engineering Laboratory 807	4	Engineering Laboratory 807	4
Co-ordination 801	2	Co-ordination 802	2

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Summer Term

Mathematics 728	6
Machine Drawing 823	16

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
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	Heat Engineering 847	5
Co-ordination 803	2	Co-ordination 804	2

Summer Term

Mathematics 731	6
Hygiene and Sanitation 771	16

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Chemistry 741	8	Chemistry 742	8
English Composition 701... 4		English Composition 702... 4	
D. C. Electricity 867	6	A. C. Electricity 868	6
D. C. Laboratory 869	4	A. C. Laboratory 870	4

Summer Term

Advanced Electrical Theory 891	10
Advanced Electrical Laboratory 901	6
Chemistry of Combustion 743	6

JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Economics 737	6	Economics 738	6
Advanced Electrical Theory 893	4	Advanced Electrical Theory 894	4
Advanced Electrical Laboratory 903	2	Advanced Electrical Laboratory 904	4
Physics 785	5	Strength of Materials 837..	6
Metallurgy 744	6	Materials Laboratory 817..	4

Summer Term

Advanced Electrical Laboratory 905	6
Electric Power Plants 896	16

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Hydraulics 849	6	Thermodynamics 872	6
Special Electrical Problems 899	4	Special Electrical Problems 900	6
Electric Power Transmission 895	3	Electric Railways 897	3
Bookkeeping 1027½	6	Business Administration 1037½	6
English Literature 711	2	English Literature 712	2

INDUSTRIAL ENGINEERING

1924-1925

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
English Composition 701....	4	English Composition 702....	4
Physics 783	6	Physics 784	6
Economics 737	6	Economics 738	6
Co-ordination 803	2	Co-ordination 804	2

Summer Term

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

PRE-JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Training	2	Military Training	2
Chemistry 741	8	Chemistry 742	8
Bookkeeping and Account- ing 1027½	6	Bookkeeping and Account- ing 1027½	6
Money and Banking 1045½	6	Statistics 1047½	6

Summer Term

Railroads and Traffic Problems 1049½	22
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JUNIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English Literature 711	2	English Literature 712	2
D. C. Electricity 867	6	A. C. Electricity 868	6
D. C. Laboratory 869	4	A. C. Laboratory 870	4
Business and Industrial Problems 1055½	2	Business and Industrial Problems 1056½	2
Industries and Resources of Akron 1057½	2	Industries and Resources of Akron 1058½	2
Business Finance 1035½	3		

Summer Term

Markets, Domestic Commerce 1043½	22
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SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Elementary Law 1039½	4	Business Law 1040½	6
Accounting Problems and Cost Accounting 1051½	6	Accounting Problems and Cost Accounting 1052½	6
Business Administration 1037½	6	Business Administration 1038½	6
Thesis	4	Thesis	4

**COMMERCE AND ADMINISTRATION (Co-operative)
1924-1925**

FRESHMAN YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Mathematics 725	6	Mathematics 727	6
Drawing 811	4	Drawing 822	4
Accounting Recitation 1027½	5	Accounting Recitation 1028½	5
Accounting Laboratory	1	Accounting Laboratory	1
Co-ordination 801	2	Co-ordination 802	2

Summer Term

Industrial and Commercial Geography 1019½	11
Economic Development of the United States 1021	11

SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
*Military Training	2	Military Training	2
Physical Training	2	Physical Training	2
Economics 737	6	Economics 738	6
Modern Language 713	6	Modern Language 714	6
English Composition 701	6	English 702	6
Co-ordination 803	2	Co-ordination 804	2

Summer Term

Railroads and Traffic Problems 1049½	22
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COMMERCE AND ADMINISTRATION (Full Time)

JUNIOR YEAR

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

SENIOR YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Government or Sociology	3	Government or Sociology	3
Accounting Problems and Cost Accounting 1051	2	Accounting Problems and Cost Accounting 1052	2
Foreign Commerce 1053	2	Business and Industrial Problems	2
Markets, Domestic Com- merce 1043	3	Business Administration	3
Electives	3	Thesis	2
Thesis	2		

*For Men only.

SECRETARIAL COURSE (Full Time)

1924-1925

JUNIOR YEAR

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

SENIOR YEAR

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

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	737-740
Chemistry	741-770
Biology	771
Geology	772-779
Physics	780-790
Engineering Subjects	801-950
Commerce Subjects	1001-1099

ENGLISH

701. English Composition.

Study of correct and forceful thought 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.

714. Continuation of 713.

715. Continuation of 714.

716. 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.

ECONOMICS

737. Economics.

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

738. Continuation of 737. A study of practical economic problems such as wages, interest, rent, 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.

743. Chemistry of Combustion.

A study of the various solid, liquid, and gaseous fuels by the methods of proximate and ultimate analysis of their constituents, and calorimetric tests of their heating values. The analysis of flue-gas and gaseous fuels, and the chemical effects of improper air supply, are included.

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

These courses are arranged to cover the subject of mechanics and sound in the first two years, and heat and light during the first semester of the third year. Since each course is built upon the preceding course, it is imperative that they be taken in the order given in the catalog.

781. An elementary course in statics. The conditions under which equilibrium can be obtained with systems of collinear and parallel forces. The application of the principle of moments to simple machines and pier reactions is emphasized. Five exercises per week: three recitations and two laboratory periods.

782. A continuation of 781 and discussion of non-parallel forces, force polygons, and their application to mechanical devices. Study of simple frames and calculation of stresses and compressions by graphical, analytical, and experimental methods. Problems and devices involving non-current forces and the equilibrium polygon. Five exercises per week: three recitations and two laboratory periods.

783. An extension of 782 to study of active forces in overcoming friction and in doing work, also a consideration of energy, power, mass, inertia, density and specific gravity, structure of matter and statics of fluids. Statics will be followed by dynamics of translatory motion. Six exercises per week: four recitations and two laboratory periods.

784. A continuation of 783 including dynamics of rotatory motion, statics of elasticity, and the dynamics of elasticity, emphasizing wave motion and sound. Six exercises per week: four recitations and two laboratory periods.

785. A course covering fundamental principles of heat and light with special emphasis on their engineering application. This course cannot be taken before 784. Five exercises per week: three recitations and two laboratory periods.

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.

802. Continuation of 801.

803. Continuation of 802.

804. Continuation of 803.

805. Continuation of 804.

806. Continuation of 805.

807. Elementary Engineering Laboratory.

This course furnishes an introduction to certain principles and methods of procedure in civil, mechanical, and electrical laboratory work which are of fundamental importance to every engineering student. It also better enables him to choose his particular field. He is taught to perform simple laboratory exercises and to report upon them accurately and in proper form. Simple slide-rule manipulation is taught at the outset and applied throughout the year. The year is divided into three parts and the students into three groups, each group spending one-third

of the year in each of the three engineering laboratories, civil (807-C), mechanical (807-M), and electrical (807-E).

810. Surveying.

The theory and use of the transit and level. The surveying and computation of areas. Maps and profiles. Tests and adjustments of instruments. Topographic surveying. Observations on the sun and on Polaris. 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.

826. Mechanical Engineering.

The major portion of the work dealing with the generation and use of mechanical power is conducted by the three upper classes simultaneously during a period of three years for each class, and in a manner closely resembling the activities of an engineering organization.

COLLEGE OF ENGINEERING AND COMMERCE 101

Particular effort is directed toward developing ability to think constructively and practically, the positions of highest responsibility being assigned on the basis of college seniority and proven ability. To a large extent, the planning and executive direction of the course is entrusted to these higher officials of the organization. The material objective is the development of a carefully coordinated series of engineering compilations which shall include up-to-date digests suitable for use as texts, each member of the organization being required to make himself familiar with the contents of each text after its completion and apply it to the solution of synthetic problems such as actually occur in engineering work. The organization provides trained assistance on commercial tests, graduating theses, and advanced research.

827. Continuation of 826.

828. Continuation of 827.

829. Continuation of 828.

830. Continuation of 829.

831. Continuation of 830.

832. Continuation of 831.

833. Continuation of 832.

834. Continuation of 833.

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.

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 Heat Engineering.

This course is primarily a study of steam boilers, engines, and other mechanical power units and accessories from a descriptive standpoint, for the purposes of general information and assistance in grasping the theory and design involved in succeeding courses. The course also affords a brief survey of the entire subject of heat in its application to engineering.

849. Hydraulics.

A study of some of the fundamental laws on which the theory and design of hydraulic constructions and machinery are based, with applications to reciprocating and centrifugal pumps, impulse and reaction turbines, etc. Special consideration is given to the mechanical features of hydro-electric installations.

851-855. 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.

856. Highways.

Study and design of all hard surface roads; also study of earth roads, street design, and city paving. Traffic is studied by means of a traffic census. Road materials are tested. Text: Agg's Roads and Pavements.

861. Cement Testing.

Theory and manufacture of cement; standard laboratory tests of cement, mortar, and concrete; experimental investigations. A trip is made to a cement plant 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. Prerequisite, Engineering Laboratory 807.

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.

This course continues the study of the transformation of heat into mechanical energy touched upon in the course in Elementary Heat Engineering (847) and makes practical application of the thermodynamic laws to steam engines and turbines, internal combustion engines, steam boilers, and other power plant apparatus, refrigerating systems, 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: Ketchum.

877. Machine Design.

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

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: Hool and Johnson.

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: 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 904.

COMMERCE AND ADMINISTRATION

Industrial and Commercial Geography.

1019. Full time.

1019½. Half time.

Growth and factors of commerce and industry; study of the most important industries of the United States; physical features of the world in their relation to the development of commerce and industry; 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 restric-

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

Bookkeeping and Accounting.

1027. Full time.

1027½. Half time.

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

1028. Continuation of 1027.

Industrial and Business Economics.

1029. Full time.

1029½. Half time.

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

Indexing and Filing.

1031. Full time.

1031½. Half time.

The modern business office, its filing cases and appliances; a more advanced course in filing for the big office; latest methods for short cuts in filing 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.

1033½. Half time.

An advanced course in business letter writing; development of business forms necessary to modern business; the modern business letter and report from the business

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man's side; work of the secretary in making reports and schedules for the office; a practical course to meet the needs of modern business. Problems and visits to offices.

Business Finance.

1035. Full time.

1035½. Half time.

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

Business Administration.

1037. Full time.

1037½. Half time.

Origin and history of industrial and mercantile establishments; principles of organization; distribution of functions and the control of business; factors accounting for the location of industries; 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.

1039½. Half time.

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

Business Law.

1040. Full time.

1040½. Half time.

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

Railroads and Traffic Problems.

1049. Full time.

1049½. Half time.

Economic significance of modern development, organization and combination of railway systems; the development of the means of transportation; railway growth and consolidation; problems of railway traffic and rate making; rate theories and practice, legislative control, inland and coastwise commerce of the United States; railway commissions and public control; Government ownership and its relation to the public.

Accounting Problems and Cost Accounting.

1051. Full time.

1051½. Half time.

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

1052. Continuation of 1051.

Foreign Commerce.

1053. Full time.

1053½. Half time.

Development of early commerce and commercial nations; theory of international trade; volume and character of imports and exports; governmental regulation, consular service, commercial methods and regulations 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.

1055½. 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.

1057½. Half time.

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

1058. Continuation of 1057.

Commercial Economics.

1059. Full time.

1059½. Half time.

Purpose and scope of economics, the 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 29.

Entrance Requirements

English	3	units
Mathematics	2½	units
*Foreign Language	2	units
U. S. History and Civics	1	unit
†Physics	1	unit
Elective	5½	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 cultural education and forms a basis for those who wish to

*Not less than a full unit in the beginning of any language will be accepted toward this requirement. The two required units must be in one language.

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

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 of required minors.

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
English 51	3	English 52	3
*Modern Language	3 or 4	*Modern Language	3 or 4
Textiles 603	2	Textiles 604	2
Principles of Art 601	2	Designing 602	2
Physical Training	1	Physical Training	1
Freshman Lectures	1/2	Current Events	1
	<hr/>		<hr/>
	15 1/2 or 16 1/2		16 or 17

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Chemistry 353	4	Chemistry 354	4
†Physiology 409	4	†Physiology 410	4
*Modern Language	3	*Modern Language	3
Art 625	2	House Planning 626	2
English 63, 69 or 75	3	English 64, 70 or 76	3
Drafting & Designing 607	1	Sewing 608	1
Child Hygiene 611	3	Home Nursing 612	3
	<hr/>		<hr/>
	19		19

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
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
	<hr/>	Clothing: Care, Cost 610....	2
	<hr/>		<hr/>
	17 or 18		19 or 20

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

†Offered 1925-26 and alternate years.

‡If not offered as entrance.

§Science: 16 hours besides Chemistry 353-4. Home Economics: 38 hours from the above. Minors: English (above Freshman Rhetoric) 6; Language (above Freshman Language) 6; History 6; Public Speaking 3; Psychology 6; Sociology 6.

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Dietetics 613	4	Seminar 618	2
Sociology 213	3	Sociology 214	3
Bacteriology 419	4	Bacteriology 420	4
Psychology 201	3	Psychology 202	3
Public Speaking	3	Table and Meal Service	
History of Art 627	2	632	2
		History of Art 628	2
	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 \$23.00 for the first semester and for the second semester \$18.00 to old students and \$20.50 to new students 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. All fees are payable, as a part of the registration and before the student enters any classes. As to tuition in special cases see page 41.

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 deposit will be returned at the end of the semester.

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

Note: Students provide their own materials in the following courses: Principles of Art, Designing, Textiles, House Planning, Art, Dress, Seminar, Drafting and Designing, and 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 51-83 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. (10:00 a. m. to 1:00 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.

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.

Recitations; study of chemistry of foods and the processes of nutrition.

ENGLISH

Courses: 51, 52, 63, 64, 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.

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 the 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.

*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 four-year period of training offers opportunity for a wider and more thorough preparation than two or three-year periods.

Teacher training is based upon the broader academic field of knowledge and is 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 \$2,300. 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. Evening and Saturday courses are 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.

All freshman and sophomore men in Teachers College are required to take R. O. T. C.

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 a maintenance fee of \$23.00 for the first semester, and for the second semester, \$18.00 for old students, and \$20.50 for new students, covering registration, incidentals and student activity fee. Fees to cover breakage in laboratory courses are also charged.

All fees are payable as a part of the registration and before the student enters any classes.

Non-Resident Students

The tuition for non-resident students is \$90.00 per semester in addition to the maintenance fee as stated above and laboratory fees as stated for resident students.

All persons registering for work after the specified days of registration or classification 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.

A graduation fee of \$5.00 is payable by each candidate for the bachelor's degree, at least one week before graduation. For the Master's degree a fee of \$10.00 is required.

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 the Entrance Board as early as possible during the summer preceding entrance to Teachers College.

Students from other colleges will be admitted upon presentation of certificate of work done and honorable dismissal.

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

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

REGISTRATION

The registration days for the beginning of the school year 1924-1925 will be September 12 and 13 for new students and September 15 and 16 for upper classmen; for the second semester, January 19-24. All students, old and new, are required to register and classify on these days between 9:00 a. m. and 5:00 p. m.

COURSES OF STUDY AND DEGREES

Teachers College offers thirteen 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 four student teachers. Each high school critic supervises but one student teacher. In this way the student receives real apprenticeship in teaching.

KINDERGARTEN-PRIMARY COURSES

The following courses are offered to students training for kindergarten-primary 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.

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

THREE YEAR COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Political Science 261	4	General Psychology 1102 ..	4
Speech 91	3	General History of	
Music	1½	Education 1130	3
Physical Education 1353.....	1	Music	1½
Freshman Lectures	½	Physical Education 1354 ..	1
Mathematics or		Current Events 290	1
*Foreign Language	4	Mathematics or	
		*Foreign Language	4
	17		17½

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
Educational Psychology		Educational Psychology	
1103	2	1104	2
Observation 1203	2	Public School Music 1231..	3
History of Education in		Principles of Teaching (1	
the United States 1131 ..	3	hr. of Observation) 1210..	3
Story Telling 89	3	Story Telling 90	3
Professional Ethics 1124....	1	Professional Ethics 1125....	1
Physical Education 1355	1	Physical Education 1356....	1
	16		17

THIRD YEAR

First Semester	Cr. Hrs.	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	2	1303	4
Piano 1315	1	Primary Methods 1216	4
History of Kindergarten		Piano 1316	1
Philosophy 1313	2		
Primary Methods 1218	3		
	16		17

This course when completed entitles the student to a State certificate and admits to a teaching position in Akron.

*Must be a continuation of some course pursued in High School; two years of a new language are required.

TEACHERS COLLEGE

FOUR YEAR COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Political Science 261	4	General Psychology 1102....	4
Speech 91	3	General History of	
Music	1½	Education 1130	3
Physical Education 1353....	1	Music	1½
Freshman Lectures	½	Physical Education 1354	1
Mathematics or		Current Events 290	1
*Foreign Language	4	Mathematics or	
		*Foreign Language	4
	17		17½

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	2	1104	2
Story Telling 89	3	Story Telling 90	3
Community and Civic		Personal Hygiene 1172	3
Ideals 1174	3	Physical Education 1356....	1
Physical Education 1355....	1		
	16		16

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	English	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 1133	2	hr. of Observation) 1210	3
Observation 1203	2	Public School Music	3
Professional Ethics 1124....	1	Professional Ethics 1125 ..	1
Child Psychology 1105	2	Psychology of Learning	
		1112	2
	16		17

*Must be a continuation of some course pursued in High School; two years of a new language are required.

FOURTH YEAR

First Semester	Cr. Hrs.	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.....	2	1303	4
Piano 1315	1	Primary Methods 1216	4
History of Kindergarten		Piano 1316	1
Philosophy 1313	2		
Primary Methods 1218	3		
	<u>16</u>		<u>17</u>

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 YEAR**

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Political Science 261	4	General Psychology 1102....	4
Speech 91	3	General History of	
Music	1½	Education 1130	3
Physical Education 1353....	1	Music	1½
Freshman Lectures	½	Physical Education 1354....	1
Mathematics or		Current Events 290	1
*Foreign Language	4	Mathematics or	
	<u>17</u>	*Foreign Language	4
			<u>17½</u>

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
Educational Psychology		Educational Psychology	
1103	2	1104	2
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	
1239	2	1240	2
Physical Education 1355 ..	1	Physical Education 1356 ..	1
	<u>18</u>		<u>17</u>

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

†Those preparing to become primary teachers will take Primary Methods and Songs and Games or Folk Games the first semester. The second semester they will take Story Telling and Primary Methods.

THIRD 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	Community and Civic	
Educational Problems 1211	1	Ideals 1174	3
Professional Ethics 1124....	1	Art 1252	2
		English	3
		Personal Hygiene 1172	3
		Professional Ethics 1125	1
		History of Education in	
		the United States 1131..	2
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	16		16

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

FOUR YEAR ELEMENTARY COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Political Science 261	4	General Psychology 1102....	4
Art 1251	2	General History of	
Music	1½	Education 1130	3
Physical Education 1353....	1	Music	1½
Freshman Lectures	½	Physical Education 1354....	1
Mathematics or		Mathematics or	
*Foreign Language	4	*Foreign Language	4
	<hr/>		<hr/>
	16		16½

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	2	1104	2
Story Telling 89	3	Community and Civic	
History of Education in		Ideals 1174	3
the United States 1131....	3	Art 1252	2
Physical Education 1355....	1	Physical Education 1356....	1
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	16		15

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

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Speech 91	3	English	3
Sociology 213	3	Sociology 214	3
Introduction to Scientific Study of Education 1133	2	Objectives in Elementary Education 1209	2
Observation 1203	2	Public School Music 1231..	3
*Arithmetic and Methods	2	Principles of Teaching (1 hr. of Observation) 1210	3
*Language and Methods 1225	2	*History and Methods 1223	2
Child Psychology 1105	2	*Geography and Methods 1240	2
—	—	—	—
	16		18

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Practice Teaching 1213B..	8	Educational Measurements 1134	2
School Management 1241A	3	Art 1254	2
Special Methods 1246A	3	Personal Hygiene 1172	3
Educational Problems 1211	1	Psychology of Learning 1230	2
Professional Ethics 1124....	1	Professional Ethics 1125....	1
—	—	Electives	6
	16	—	—
			16

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

ART

The following combination courses are offered to students training for teaching Art in the schools. It will be noted that students are required to spend one year in some special Art School approved by the Dean.

THREE YEAR ART COURSE**FIRST YEAR**

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Art 1251	2	Art 1252	2
Art 1307	2	Art 1253	2
Art 1311	2	Art 1254	2
Physical Education 1353....	1	Art 1255	2
Freshman Lectures	½	General Psychology 1102 ..	4
History of Education in the United States 1131....	3	Physical Education 1354....	1
Story Telling 89	3	—	—
—	—	—	—
	16½		16

*Those preparing for primary teaching will take Primary Methods and Songs and Games or Folk Games the first semester. The second semester they will take Story Telling and Primary Methods.

SECOND YEAR

The second year must be a full year's work in some Art School approved by the Dean.

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	Ed'l Psychology 1104	2
Ed'l Psychology 1103	2	History of Art 628	2
Child Psychology 1105	2	Principles of Teaching	
History of Art 627	2	1210	3
Introduction to the Study		Practice Teaching 1213	4
of Education 1133	2	Special Methods 1246F	4
Community and Civic		Educational Problems 1211	1
Ideals 1174	3	Professional Ethics 1125	1
Professional Ethics 1124	1		
Speech 91	3		
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	18		17

No degree is granted for the completion of this course but the student is eligible to appointment in the Akron Schools.

FOUR YEAR ART COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Art 1251	2	Art 1252	2
History of Education in		General Psychology 1102	4
the United States 1131	3	Physical Education 1354	1
Physical Education 1353	1	Current Events	1
Story Telling 89	3	Mathematics or	
Freshman Lectures	1/2	Foreign Language	4
Mathematics or		Public School Music 1231	3
Foreign Language	4		
	<hr/>		<hr/>
	16 1/2		18

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
English	3	English	3
Ed'l Psychology 1103	2	Ed'l Psychology 1104	2
Art 1307	2	Art 1254	2
Art 1311	2	Art 1255	2
Art 1253	2	Mechanical Drawing 1410	2
Mechanical Drawing 1409	2	Speech 91	3
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	17		18

THIRD YEAR

The third year must be a full year's work in some Art School approved by the Dean.

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	Psychology of Adolescence	
Child Psychology 1105	2	1107	2
Sociology 213	3	History of Art 628	2
Introduction to the Study		Principles of Teaching	
of Education 1133	2	1210	3
Community and Civics		Practice Teaching 1213G....	4
Ideals 1174	3	Special Methods 1246F	4
Professional Ethics 1124 ..	1	Ed'l Problems 1211	1
History of Art 627	2	Professional Ethics 1125 ..	1
	16		17

Students who complete this course will receive the Bachelor of Education degree and will be placed on the eligible list for appointment in the Akron Schools.

MUSIC

The following combination courses are offered to students training for teaching Music in the schools. Students are required to spend one year in some special Music School approved by the Dean.

THREE YEAR MUSIC COURSE**FIRST YEAR**

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Music	1½	Music	1½
Glee Club	½	Glee Club	½
Orchestra	½	Orchestra	½
History of Education in		General Psychology 1102....	4
the United States 1131 ..	3	General History of Edn.	
Freshman Lectures	½	1130	3
Story Telling 89	3	Current Events	1
Physical Education 1353....	1	Art 1252	2
Art 1251	2	Physical Education 1354....	1
	15		16½

SECOND YEAR

The second year must be a full year's work in some Music School approved by the Dean.

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	Ed'l Psychology 1104	2
Ed'l Psychology 1103	2	Principles of Teaching	
Child Psychology 1105	2	1210	3
Sociology 213	3	Practice Teaching 1213H	4
Introduction to Scientific		Special Methods 1246G	4
Study of Education 1133	2	Ed'l Problems 1211	1
Community and Civic		Professional Ethics 1225	1
Ideals 1174	3	Physical Education 1356	1
Professional Ethics 1124	1		
Physical Education 1355	1		
	<u>17</u>		<u>16</u>

No degree is granted for this course but the student who completes it as outlined is eligible to appointment in the Akron Schools.

FOUR YEAR MUSIC COURSE**FIRST YEAR**

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
History of Education in		General Psychology 1102	4
the United States 1131	3	Physical Education 1354	1
Physical Education 1353	1	Current Events	1
Speech 91	3	Mathematics or Foreign	
Freshman Lectures	½	Language	4
Mathematics or Foreign		Music	1½
Language	4	Glee Club	½
Music	1½	Orchestra	½
Glee Club	½		
Orchestra	½		
	<u>17</u>		<u>15½</u>

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
English	3	English	3
Ed'l Psychology 1103	2	Ed'l Psychology 1104	2
Sociology 213	3	Public School Music 1231	3
Story Telling 89	3	Sociology 214	3
Professional Ethics 1124	1	Professional Ethics 1125	1
Physical Education 1355	1	Physical Education 1356	1
	<u>17</u>		<u>17</u>

THIRD YEAR

The third year must be a full year's work in some Music School approved by the Dean.

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	Psychology of Adolescence	
Child Psychology 1105.....	2	1107	2
Introduction to the Study		Principles of Teaching	
of Education 1133	2	1210	3
Community and Civic		Practice Teaching 1213H..	4
Ideals 1174	3	Special Methods 1246G.....	4
Electives	6	Education Problems 1211..	1
		Electives	2
	16		16

Students who complete this course will receive the Bachelor of Education degree and will be placed on the list for appointment in the Akron Schools.

HOME ECONOMICS COURSE

Students desiring to train for teaching Home Economics in Akron 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 or of Master of Education if the required work is completed.

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

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Chemistry 353	4	Chemistry 354	4
English 51	3	English 52	3
Modern Language	3 or 4	Modern Language	3 or 4
Textiles 603	2	Textiles 604	2
Art 1251	2	Art 1252	2
Physical Education 1353....	1	Physical Education 1354....	1
Freshman Lectures	$\frac{1}{2}$		
	15½ or 16½		15 or 16

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Organic Chemistry 621.....	4	Household Chemistry 622..	4
Biology 401	4	Biology 402	4
Modern Language	3	Modern Language	3
Dress 609	3	General Psychology 1102....	4
Personal Hygiene 1172.....	3	Art 1254	2
House Planning	2		
	18		18

TEACHERS COLLEGE

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English	3	English	3
Sociology 213	3	Sociology 214	3
Foods 605	4	Foods 606	4
Physiology 409	4	Physiology 410	4
History of Art 287 or Music	2	History of Art or Music	2
	16		16

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Dietetics 613	4	Seminar 618	2
Art 1253	2	House 616	3
Bacteriology and Sani- tation 419	3	Bacteriology and Sani- tation 420	3
Educational Psychology 1103	2	Educational Measure- ments 1134	2
History of Education in the United States 1131..	3	Principles of Teaching (Observation 1 hr.) 1210	3
Introduction to Study of Education 1133	2	Psychology of Learning 1112	2
	16		15

FIFTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Electives approved by the Dean sufficient to total 160 hours.		Practice Teaching 1213D..	4
		Special Methods 1246C	4
		Educational Problems 1211	1
		Professional Ethics 1125....	1
		Psychology of Adolescence	2
		Electives	4
			16

COURSE FOR TEACHERS OF SHOP SUBJECTS
FOUR YEAR COURSE

FIRST YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Community and Civic Ideals 1174	3	General Psychology 1102....	4
Freshman Lectures	1/2	Trigonometry 301	4
College Algebra 302	4	Principles of Art 1251	2
History of Education in Practical Arts 1401	2	Woodworking 1404	3
Woodworking 1403	3	R. O. T. C. and Gymnasium	2
R. O. T. C. and Gymnasium	2		
	17 1/2		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	2	1104	2
Metal Working 1405	3	Metal Working 1406	3
Methods in Shop Subjects		Methods in Shop Subjects	
1407	2	1408	2
Mechanical Drawing 1409..	2	Mechanical Drawing 1410..	2
R. O. T. C. and Gymnasium	2	R. O. T. C. and Gymnasium	2
	<hr/>		<hr/>
	18		18

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Physics 331	4	Physics 332	4
Sociology 213	3	Sociology 214	3
Introduction to Study of		Principles of Teaching.....	3
Education 1133	2	Labor Problems 254	3
Principles of Economics		Psychology of Shop Sub-	
251	3	jects 1412	2
Psychology of Shop Sub-		Printing 1414	3
jects 1411	2		
Printing 1413	3		
	<hr/>		<hr/>
	17		18

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
General History of Edu-		Practice Teaching 1213E....	4
cation 1130	2	Special Shop Methods	
Administration of Voca-		1246D	4
tional Education 1415....	2	Educational Problems	
Electrical Shop 1417	4	1211	1
House Planning	2	Professional Ethics 1125....	1
Field Project Suitable to		Psychology of Adolescence	
Major Subject 1419	4	1107	2
Professional Ethics 1124....	1	Personal Hygiene 1172	3
	<hr/>		<hr/>
	15		15

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 Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 51	3	English 52	3
Political Science 261	4	Political Science 262	4
History of Education in the United States 1131..	3	General Psychology 1102....	4
Physical Education 1353....	1	Physical Education 1354....	1
First Aid and Massage 1351	1	History of Physical Edu- cation 1358	2
Folk Games 1352	2	Play and Games 1362	1
Play and Games 1361	1	Current Events	1
Freshman Lectures	½		
	15½		16

SECOND YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Biology 401	4	Biology 402	4
English	3	English	3
Educational Psychology 1103	2	Educational Psychology 1104	2
Physical Education 1355....	1	Physical Education 1356....	1
Playground Organization 1357	2	Community and Civic Ideals	3
Prescription of Exercise 1359	3	Corrective Exercise 1360..	3
	15		16

THIRD YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Sociology 213	3	Sociology 214	3
Human Physiology	4	Human Physiology	4
Introduction to Study of Education 1133	2	Principles of Teaching (1 hr. Observation) 1210	3
Principles of Coaching Basketball 1365	1	Organization and Direc- tion of Play 1364	2
Organization and Direc- tion of Physical Activities 1365	3	Principles of Coaching Baseball 1366	1
Physical Ed. Practice 1381	1	Physical Ed. Practice 1382	1
Electives	3	Personal Hygiene 1172	3
	17		17

FOURTH YEAR

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Administration of Physical Education 1367	2	Psychology of Adolescence 1107	2
Principles of Coaching Football 1369	1	Teaching Physical Education 1368	8
Professional Ethics 1124....	1	Special Methods in Physical Education 1370	4
Physiology of Exercise 1385	2	Educational Problems 1211	1
Physical Ed. Practice 1383	1	Professional Ethics 1125....	1
Electives	9	Applied Anatomy 1384	2
	—		—
	16		18

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 in Akron will spend their first year as regular freshmen in the College of Liberal Arts, at the 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:

- I. **Greek and Latin.** A minimum of 40 hours, at least 14 of which must be Greek.
- II. **Latin.** A minimum of 32 hours.
- III. **German and French.** A minimum of 20 hours of each.
- IV. **Romance Languages.** A minimum of 40 hours (20 hours each of French and Spanish).
- V. **Philosophy and Sociology.** Thirty hours.
- VI. **Economics and Political Science.** A minimum of 24 hours.
- VII. **History.** A minimum of 24 hours.
- VIII. **English.** A minimum of 30 hours.

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 elected in the first four years from the professional and educational courses in Teachers College with the approval of the Dean.

FIFTH YEAR

First Semester	Gr. Hrs.	Second Semester	Gr. Hrs.
Electives sufficient to total 160 hours, to be approved by the Dean.		Practice Teaching 1214	8
		School Management 1241B	3
		Special Methods 1246B	3
		Educational Problems 1212	1
		Professional Ethics 1125	1

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

Degree of Bachelor of Education or the Master's degree 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.

FOUR YEAR COURSE

Students who are interested in preparing for High School positions in four years will have opportunity to do so but will not be placed on the High School appointment list for the City of Akron. It will be necessary for such students to confer with the Dean and select majors and minors according to the requirements of the State Department of Education. Upon the completion of this course the Bachelor of Education degree and the state certificate to teach in high schools are granted. Graduates are eligible to teach in all high schools of the state except in cities requiring five years of training. They are also eligible to teach in the Elementary Schools of Akron.

MASTERS' COURSES

The Masters' Courses of Teachers College are open to any student who holds the Bachelor's degree from an approved institution. The Master's degree is conferred when the student has received thirty-two hours of unduplicated graduate credit, and has met the following requirements:

a. All work for the degree must be done under the direction of Teachers College.

b. The major in the graduate course must be logically related to the preliminary training, and may come from the departments of Education or Psychology.

c. Preliminary training in at least one course in psychology and two courses in Education or related subjects must be presented.

d. Each candidate for the degree must present a major sequence of not less than 18 semester hours' credit in some one department.

e. The candidate must present one minor sequence of not less than 10 semester hours' credit. This sequence must have the approval of the head of the department in which the major sequence is taken. This sequence must be taken in the department of Education, provided the major sequence has not been taken in that division and provided further the candidate has not presented the equivalent of 10 semester hours in Education in undergraduate courses.

f. Credit will not be granted for graduate work with a grade of less than B in at least three-fourths of the work.

g. At least half of the 32 hours shall be done in strictly graduate courses listed as such in the catalog.

h. If a graduate student is permitted to take work with undergraduate students he may not enter a class lower than Junior rank in which case he shall be required to do additional reading and make reports satisfactory to the major professor.

i. The candidate shall be required to present a satisfactory thesis on some subject in the general field of his major sequence. He will be required to take the seminar

course extending throughout the year and present such parts of his thesis as may be decided upon by his major professor. The thesis and seminar shall be considered as a part of the 18 hours required for a major.

j. The candidates shall be required to take final oral and written examinations in his major and minor sequences.

The name of the degree granted will be determined by the name of the Bachelor's degree submitted for entrance to the Masters' Courses.

Candidates for the Master's degree are expected to declare their candidacy at the beginning of the year's work. Recommendation for acceptance of candidates must come from the Head of the Department in which the major sequence is taken, at least one semester before the degree is granted. A diploma fee of ten dollars is charged for the Master's degree.

DEPARTMENTS OF INSTRUCTION

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

Psychology and Education	1101-1200
Methods and Teaching	1201-1250
Art	1251-1260
Kindergarten Training	1300-1350
Physical Education	1351-1400
Industrial and Vocational Education	1400-1450
Graduate School	1500-1600

Other subjects are numbered as in the general catalog.

Courses starred are described in the bulletin of the Evening Session.

PSYCHOLOGY AND EDUCATION

DEAN BANKES
 SUPERINTENDENT REED
 PROFESSOR HAYES
 ASSISTANT PROFESSOR KUHNES
 MR. SMITH
 MR. HATTON
 MR. BRYANT

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) Two hours.

A study of misunderstandings, illusions, tact, open-mindedness, 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. Prerequisite, Course 1102.

1104. Educational Psychology II (Second Semester) Two 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, Course 1102.

1105. Child Psychology (First Semester) Two 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 (Second 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 (Second Semester) 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.

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

*1121. **Testing Technique (First Semester)** Two hours.

*1123A. **The Elementary School Curriculum (First Semester)** Two hours.

*1123B. **The Elementary School Curriculum (Second Semester)** Two hours.

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. **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.

1209. **Objectives in Elementary Education (Second Semester)** Two hours.

A careful analysis of objectives in each of the elementary school subjects; factors in the selection of material;

types of organization necessary to realize the various objectives and applications of various methods of teaching.

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.

***1160. School Organization (First Semester)** Two hours.

***1161. School Organization (Second Semester)** Two hours.

1172. Personal Hygiene (Second Semester) Three 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.

1174. Community and Civic Ideals (Both Semesters)
Three credit hours.

A discussion of ideals which should dominate the influence of the schools and cement the community and educational interests; the relation of various school subjects to life ideals; extra curricular activities and their influence; school discipline and individual self-control.

***1176A. The Auditorium (First Semester)** Two hours.

***1176B. The Auditorium (Second Semester)** Two hours.

***1178. Nature Study (Second Semester)** Two hours.

1124. Professional Ethics (First Semester) One hour.

A discussion of the ethics of the teaching profession dealing with the relationship of teachers, principals, supervisors and superintendents and the teacher's attitude to pupils and parents.

1125. Professional Ethics (Second Semester) One hour.
The continuation of 1124.

METHODS AND TEACHING

DEAN BANKES
 PROFESSOR HAYES
 ASSISTANT-SUPERINTENDENT McELROY
 ASSISTANT-PROFESSOR KUHNES
 MISS HOOVER
 MISS GLOVER
 MR. WATERHOUSE

1201. Principles of Instruction in Secondary Education
(First Semester) Three 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.

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

1201B. Principles of Instruction in Secondary Education
(Second Semester) Two hours.

1209. Objectives in Elementary Education (Second Semester) Two hours.

1210. Principals 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) One hour.

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

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. Four hours.

For those training to become home economics teachers.

1246-D. **Special Methods.** Four hours.

For those training to become shop teachers.

1246-E. **Special Methods.** Four hours.

For those training to become physical training teachers.

1246-F. **Special Methods.** Four hours.

For those training to become Art teachers.

1246-G. **Special Methods.** Four hours.

For those training to become music 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.

1217. **Primary Methods (First Semester)** Three 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.

1218. **Primary Methods (Second Semester)** Three hours.

A continuation of Course 1217.

*1229. **Methods in High School English (First Semester)**

Two hours.

*1229. **Methods in Geography and Elementary Science (Second Semester)** Two hours.

1225. **Arithmetic and Methods (First Semester)** Two hours.

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

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

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

1231. **Public School Music (Second Semester)** Three 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 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 in 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.

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. Four hours.

For those training to become home economics teachers.

1213-E. Practice Teaching. Four hours.

For those training to become shop teachers.

1213-F. Practice Teaching. Eight hours.

For those training to become physical training teachers.

1213-G. Practice Teaching. Four hours.

For those training to become Art teachers.

1213-H. Practice Teaching. Four hours.

For those training to become Music 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 Upper Grades (First Semester) Two hours.**1243. Literature for the Upper Grades (Second Semester) Two hours.*****1244. Literature for the Primary Grades (Second 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**MRS. BARNHARDT****1251. Elements of Art (Both Semesters) Two hours.**

The elementary principles of design, color, lettering, composition and the handling of different mediums. Prerequisite for work in all advanced courses.

1252. Design, Applied Design, Interior Decoration (Both Semesters) Two hours.

Advanced design and the application to various materials through different mediums. Study of the home from the standpoint of location, suitability to family needs, arrangement and color harmonies.

1253. Decorative Design, Home Planning, Costume Design (Both Semesters) Two hours.

Study of design applied to textiles, pottery, metal and furniture. Home planning includes house plans and complete house furnishing. History of costume. Adaptation of modern costume.

1254. Home Planning (Second Semester) Two hours.

Architectural drawing; Special projects in interior decoration—the planning of unusual rooms, theaters, stages; landscape gardening; Freehand sketching; Planting for color; Color under artificial light.

1255. Home and School Crafts (Second Semester) Two hours.

Applied design—Stenciling, block printing, batik, applique, embroidery, tooled and dyed leather, color cement, parchment shades, enamel, gesso, basketry, book binding, toy making.

1307. Kindergarten Handwork (First Semester) Two hours.

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

1311. Kindergarten Art (First Semester) Two hours.

Freehand drawing, blackboard drawing, composition, color harmonies. A thorough knowledge of the handling of different mediums—cray, stick printing, water color and yarns.

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 .

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.

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.

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
 PROFESSOR PEASE
 MR. NEWLIN
 MISS MITCHELL
 MR. GRISMER
 MR. VANCE
 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.

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.

*An extra course in composition, one hour a week through the year, is required in the sophomore year for all students who fail to make a grade of C 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.

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

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

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

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

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

Recitations, speeches, conferences. Dramatization once a month.

Note: English electives may be selected from the Department of English in the College of Liberal Arts.

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 (Both Semesters) Three hours.

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

HISTORYDEAN THOMPSON
PROFESSOR STIMMEL**627-628. History of Art (Both Semesters) Two hours each.****290. Current Events [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.

BIOLOGYPROFESSOR PLOWMAN
ASSISTANT-PROFESSOR LEATHERS
MR. FOX***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.

*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
MR. HALLENBECK**

261. American Government and Politics (First Semester) Four hours.

Required of all freshmen in the liberal arts course.

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. Repeated the second semester.

262. American Government and Politics (Second Semester) Four hours.

Required of all freshmen in the liberal arts course.

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
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

E. 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

DIRECTOR SEPTON
MR. SAYGER
MR. SMITH
MISS DUNCKLEY

1353. **Physical Education Practice (First Semester)** One hour. Three hours per week.

Elementary practice in the use of free hand, dumb bell and wand exercises.

1354. **Physical Education Practice (Second Semester)**
One hour. Three hours per week.

Continuation of Course 1353.

1355. **Physical Education Practice (First Semester)** One hour. Three hours per week.

Advanced practice in the use of light and heavy apparatus.

1356. **Physical Education Practice (Second Semester)** One hour. Three hours per week.

Continuation of Course 1355.

1351. **First Aid and Massage (First Semester)** One hour.

Principles and methods of first aid, emphasizing conditions arising from injuries in connection with physical education. Theory and practice of massage.

1352. **Folk Games (First Semester)** Two 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.

1357. **Playground Organization and Construction (First Semester)** Two hours.

A thorough study of principles and methods of playground construction, equipment and organization.

1358. **History of Physical Education (Second Semester)** Two hours.

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

1359. **Prescription of Exercise (First Semester)** Three hours.

A study of the causes, diagnosis and detection of physical defects. Prescription of exercises. Physical examinations.

1360. **Corrective Exercise (Second Semester)** One hour. Three hours per week.

Application of Course 1359 to corrective and postural exercise.

1361. **Play and Games (First Semester)** One hour. Three hours per week.

The theory and practice of play and games of low and middle organization.

1362. **Play and Games (Second Semester)** One hour. Three hours per week.

The theory and practice of play and games of high organization and the minor sports.

1363. Organization and Direction of Physical Activities (First Semester) Two 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 credit 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 credit 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) Four 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) Four credit hours.

Discussions of problems and observation as encountered in practice teaching.

1381. Physical Education Practice (First Semester) One hour. Three hours per week.

Advance practice in physical activities. Separate courses organized suitable to men and women.

1382. Physical Education Practice (Second Semester) One hour. Three hours per week.

Continuation of Course 1381.

1383. **Physical Education Practice (First Semester)** One hour. Three hours per week.

Advance practice in physical activities. Swimming, diving and life saving.

1384. **Applied Anatomy (Second Semester)** Two credit hours.

A technical study of muscles, their origins, insertions and functions. The relation between the muscular and skeletal systems.

1385. **Physiology of Exercise (First Semester)** Two hours.

A study of the functional effects of muscular exercise.

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, Our History, Traditions, and Customs, and the Use of the Library.

One-half hour credit is given.

MASTERS' COURSES

DEAN BANKES
PROFESSOR HAYES
ASSISTANT-PROFESSOR KUHNES

*1500A. **Seminar (First Semester)** Two hours.

*1500B. **Seminar (Second Semester)** Two hours.

*1502. **Educational Sociology (Second Semester)** Two hours.

1503. **Current Educational Thought (First Semester)** Two hours.

The purpose of this course is to analyze critically the new books on educational philosophy, theory, and practice. The aim will be to familiarize the student with current educational thought as expressed in the newest books and magazines.

1505. **Thesis (Both Semesters)** Four hours.

For graduate students preparing to meet the thesis requirements for the Master's degree. No class attendance required in this course but frequent conferences with the major professor are held. At least two appearances before the Seminar are required.

*1506. **Research Problem (Both Semesters)** One or two hours.

*1523. **Economy and Hygiene of Mental Processes (Second Semester)** Two hours.

*1526. **Genetic Psychology (First Semester)** Two hours.

1527. **Abnormal Psychology** Two hours.

The course will consist of lectures, discussions and reports dealing with disorders of perception, association, memory, affection, volition, personality, judgment and action, with respect to their respective normal phenomena. Open to graduate students and those whose experience has fitted them for appreciative study in this field.

*1528. **Advanced Educational Psychology (First Semester)** Two hours.

1529. **Psychological Systems (First Semester)** Two hours.

The aim of the course will be to discover the relationships and differences in the psychological theories: (1) Discussion of the various definitions or conceptions of psychology which have been suggested in the past and are being expounded today; (2) Discussions in the field of scientific psychology, distinctions made between metaphysics on one hand and physical and biological sciences on the other; and (3) Discussion and analyses of the several postulates necessary for the construction of scientific psychology with especial attention to the problems of parallelism, psychic causation and the subconscious.

1530. **Comparative Psychology (Second Semester)** Two hours.

The material for a course in Comparative Psychology consists of an investigation of the experimental data relative to the animal mind, and the animal reactions from various stimuli. The course will consist of lectures and library assignments in the field of comparative psychology.

1531. **Social Psychology.** Not given in 1924-25.

1551. Objectives in Secondary Education Two hours.

The objectives in secondary education in England, France, Germany and the United States are studied (1) historically, (2) in the light of national objectives, (3) in the light of sociological determinants, (4) biological determinants, (5) psychological determinants, (6) pedagogical determinants. This will enable the student to express his own general objectives in education. An attempt will be made with this general background to express objectives for the several secondary school subjects.

1554. Comparative School Systems (Second Semester)
Two hours.

The purpose of this course is to develop an appreciative knowledge of the organization, administration, and teaching practices of foreign countries and to compare their school systems with those of America. The industrial, social, religious, and national ideals that dominated systems will be studied and an opportunity will be taken to cite the lessons of profit and warning that American educators might learn from European educational experience.

1560. The Classroom Teacher and Administrative Organization (First Semester)** Two hours.1561. Educational Administration (Second Semester)**
Two hours.***1562. Extra Curricular Activities (Second Semester)**
Two hours.**1575. Anthropology of the School Child.** [Not given in 1924-25.]***1578. Educational Philosophy (First Semester)** Two hours.**COURSES FOR TEACHERS IN SERVICE**

The Teachers College will offer evening and Saturday courses during the year 1924-25. These courses of college grade will receive full credit.

Fees

For evening and Saturday courses a fee of \$7.00 per semester for each course will be charged. Students living outside the city of Akron will be allowed to take two courses without additional charge for tuition. However,

if more than four hours be taken such students will be charged \$14.00 per semester hour for each hour in excess of four, but in no case to exceed a total of \$90.00 per semester. A laboratory fee of \$2.00 will be charged for the course in Educational Measurements.

Registration

Registration for evening and Saturday courses will begin Wednesday, July 16, and continue throughout the summer daily from 9:00 a. m. to 4:00 p. m. in Room 33, Buchtel Hall. For first semester the special day set for registration is September 13 from 2:00 to 5:00 and from 7:00 to 9:00 p. m. For second semester January 24 from 2:00 to 5:00 and from 7:00 to 9:00 p. m. Late registration will be charged after these dates. An enrollment of sufficient number is necessary to insure the formation of a class.

No tuition fees are refunded except when enrollment for any class is not sufficient for the course to be given.

EVENING AND SATURDAY COURSES

First Semester

MONDAY

7:30-9:30 p. m. 1217 Primary Methods
 1121 Testing Technique
 1409 Mechanical Drawing
 1352 Folk Games
 1500A Seminar

TUESDAY

7:30-9:30 p. m. 1102A General Psychology
 1103 Educational Psychology I
 1411 Psychology of Shop Subjects
 1351 First Aid
 1176A The Auditorium
 1134 Educational Measurements
 1201A Principles of Instruction in
 Secondary Education
 1243 Literature for the Upper
 Grades

WEDNESDAY

- 7:30-9:30 p. m. 1401 History of Education in Practical Arts
 1160 School Organization
 89 Story Telling I
 1352 Folk Games
 1231 Public School Music I
 1108A Psychology of the Exceptional Child
 1560 The Classroom Teacher and Administrative Organization
 1251 Elements of Art

THURSDAY

- 7:30-9:30 p. m. 1172 Personal Hygiene
 1225 Arithmetic and Methods
 1229 Methods in High School English
 1407 Methods in Shop Subjects
 1123A The Elementary School Curriculum
 1528 Advanced Educational Psychology
 1253 Decorative Design, Home Planning Costume Design

SATURDAY MORNING

- 8:00-10:00 90 Story Telling II
 1131 History of Education in the United States
 1209 Objectives in Elementary Education
 1526 Genetic Psychology
 10:00-12:00 1105 Child Psychology
 1578 Educational Philosophy

Second Semester**MONDAY**

- 7:30-9:30 p. m. 1218 Primary Methods
 1122 Individual Mental Testing
 1410 Mechanical Drawing
 1500B Seminar
 1360 Corrective Exercise

TUESDAY

- 7:30-9:30 p. m. 1244 Literature for the Primary Grades
 1102B General Psychology
 1412 Psychology of Shop Subjects
 1176B The Auditorium
 1243 Literature for the Upper Grades
 1201B Principles of Instruction in Secondary Education
 1112 Psychology of Learning

WEDNESDAY

- 7:30-9:30 p. m. 1252 Design, Applied Design, Interior Decorating
 1358 History of Physical Education
 1161 School Organization
 1108B Psychology of the Exceptional Child
 90 Story Telling II
 1232 Public School Music II
 1240 Methods in Elementary History
 1561 Educational Administration
 1116 Administration of Vocational Education

THURSDAY

- 7:30-9:30 p. m. 1408 Methods in Shop Subjects
 1178 Nature Study
 1224 Methods in Geography and Elementary Science
 1174 Community and Civic Ideals
 1123B The Elementary School Curriculum
 1104 Educational Psychology
 1233 Home and School Crafts
 1502 Educational Sociology
-

SATURDAY MORNING

8:00-10:00	89	Story Telling I
	1130	General History of Education
	1133	Introduction to the Study of Education
	1523	Economy and Hygiene of Mental Processes
10:00-12:00	1107	Psychology of Adolescence
	1134	Educational Measurements
	1562	Extra Curricular Activities

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 Session see the Summer School Bulletin.

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

EVENING SESSION

1924-1925

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 two years of work in the evening session.

ADMISSION

The Evening Session is open to:

All persons who have completed the course of a first-grade high school.

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 13, 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.

For the second semester: Saturday, January 24, 1925, 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 17, 1924, and will close January 31, 1925.

Class work for the second semester will begin Monday, February 2, 1925, and will close June 12, 1925.

The payment of fees is a part of the registration, and is a prerequisite to entering classes.

Summer Registration

Registration for the Evening Session will begin on July 16 and will be continuous for residents and non-residents throughout the summer, from 9:00 a. m. to 4:00 p. m. daily in Room 33, Buchtel Hall. A deposit of \$5 is required at the time of registration. This sum will be applied on fees at entrance.

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 (All Students)**

1 or 2 credit hours	\$ 7.00 per semester
3 credit hours	10.50 per semester
*4 or more credit hours	14.00 per semester

TUITION FEE (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**

(All Students Not Taking Regular Day Work)

1 or 2 credit hours	\$ 7.00 per semester
3 credit hours	10.50 per semester
4 credit hours or more	14.00 per semester

LABORATORY FEES

Educational Measurements	2.00 per semester
Physics	2.50 per semester
Table and Meal Service	4.00 first semester
Table and Meal Service	6.00 second semester
Thesis Course 1505	10.00 per semester
Research Problem 1506	5.00 per semester

*Provided these credit hours are not in the School of Education or Methods and Teaching.

All persons registering for work, including payment of fees, after the specified days of registration will be charged a fee of \$1 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 will be made for any change in his program of studies.

No fees will be refunded except in case of absence on account of protracted sickness.

The fees for courses listed in departments of Psychology and Education or Methods and Teaching will be charged independently of fees for other evening courses.

After each subject the recitation room is indicated: B, Buchtel Hall; O, Olin Hall; K, Knight Chemical Laboratory; C, Curtis Cottage; and E, Engineering Building.

For all courses marked with an *, 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 \$7 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 1924-25**LATIN**

J. C. ROCKWELL

Entrance: Four years of High School Latin or the equivalent is required for entrance.

***Latin (First Semester)** Two credit hours.

Cicero's De Senectute, Ovid's Metamorphoses. There will be a short review of the fundamentals of Latin Syntax, but special emphasis will be placed on Ovid's stories from the mythological and heroic periods. These will be correlated as far as possible with the work in the readers often used in the schools. Monday 7:30-9:30. [B 32]

***Latin (Second Semester)** Two credit hours.

Continuation of the first semester's work. Monday 7:30-9:30. [B 32]

ROMANCE LANGUAGES

PROFESSOR BULGER
ASSISTANT-PROFESSOR REED
MR. TAILLIART
MISS ROGERS

Entrance: 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. [B 22]

***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. [B 22]

***Second Year French (First Semester)** Three credit hours.

Open to those who have completed First Year French or its equivalent. Grammar and composition work continued, with reading of modern works. Tuesday 7:30-9:30. Thursday, 6:30-7:30. [B 15]

***Second Year French (Second Semester)** Three credit hours.

Continuation of work of first semester. Tuesday, 7:30-9:30, Thursday, 6:30-7:30. [B 15]

SPANISH

***First Year Spanish (First Semester)** Four credit hours.

Grammar, reading, dictation, conversation. Tuesday and Thursday, 7:30-9:30. [B 25]

***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. [B 25]

***Second Year Spanish (First Semester)** Three credit hours.

Open only to those who have had First Year Spanish or its equivalent. Grammar and composition work continued. Selected texts for reading. Tuesday, 7:30-9:30. Thursday, 6:30-7:30. [B 11]

***Second Year Spanish (Second Semester)** Three credit hours.

Continuation of the work of the first semester. Tuesday, 7:30-9:30. Thursday, 6:30-7:30. [B 11]

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

ENGLISH

MR. GRISMER
MISS MITCHELL
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. [B 13]

***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. [B 13]

***63. Introduction to Literature (a) Types of Prose (First Semester)** Three credit hours.

Courses 63 and 64 stress literary types and characteristics rather than the history of English literature. They are the courses regularly required in Buchtel College to satisfy the minor requirement in literature for the A. B. or B. S. degree. Prerequisite, Rhetoric 51 and 52. Wednesday, 6:30-7:30. Friday, 7:30-9:30. [B 12]

***64. Introduction to Literature (b) Types of Poetry (Second Semester)** Three credit hours.

Wednesday, 6:30-7:30. Friday, 7:30-9:30. [B 12]

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 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; Adaptations of written stories for Oral Telling. Thursday, 7:30-9:30. [K 22]

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 member of the class. Change of project, if desired. Requirements same as for first semester. Thursday, 7:30-9:30. [K 22]

SPEECH

MISS McEBRIGHT

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

Voice and Speech—Fundamental principles. Voice technique, tone placing, tone building, enunciation, physical training and action, gesture, evolution of expression, extempore and impromptu speeches, critiques. Tuesday, 7:30-9:30. [K 36]

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

Continuation of work of first semester. Personality is carefully studied and preserved, while the appearance and address is aided, in the process of development, toward the normal type of cultivated manhood and womanhood. Tuesday, 7:30-9:30. [K 36]

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

Extempore and impromptu speeches; Literary, dramatic and artistic interpretation; Development of imagination and sympathetic insight into literature. Thursday, 7:30-9:30. [K 36]

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

Continuation of work of first semester. Interpretation and reading rehearsals. Inflection, tone color, grouping, tempo, simplicity, responsiveness and abandon, are carefully studied. Plays are rehearsed for reading purposes as exercises in dramatic delivery and reading of lines. Thursday, 7:30-9:30. [K 36]

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. [B 26]

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. (Not given 1924-1925.)

POLITICAL SCIENCE

**PROFESSOR CRECRAFT
MR. HALLENBECK
DR. DEHN**

***American Government (First Semester)** Four credit hours.

This course includes a study of the origin, development, structure and activities of the national government. Emphasis is placed on present day problems of government. Tuesday and Thursday, 7:30-9:30. [B 38]

***American Government (Second Semester)** Four credit hours.

Continuation of first semester course. Problems, structure, activities, and organization of state and local government in the United States. Methods for securing popular control in state and local government. Tuesday and Thursday, 7:30-9:30. [B 38]

***Political Parties and the Party System (First Semester)**

Three credit hours.

An objective study of the political party system, the development, structure, composition, organization, and services of parties, their relation to government and their methods and effects. Monday, 6:30-7:30. Wednesday, 7:30-9:30. [B 15]

***Government and Business (Second Semester)** Three credit hours.

A study of the problems of government control of industry and commerce; Activities and functions of government analyzed from the point of view of economics; Present day industrial problems confronting the national and state governments. Monday, 6:30-7:30. Wednesday, 7:30-9:30. [B 15]

HISTORY

ASSISTANT-PROFESSOR BALDWIN

***Political and Social History of Europe, 1789-1860 (First Semester)** Three 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. Monday, 6:30-7:30. Wednesday, 7:30-9:30. [B 25]

***Political and Social History of Europe, 1860-1920 (Second Semester)** Three 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 War and results of the War. Lectures, readings and conferences. Monday, 6:30-7:30. Wednesday, 7:30-9:30. [B 25]

BIOLOGY

PROFESSOR PLOWMAN

***Human Biology (Both Semesters)** Two credit hours per semester.

Lectures, recitations, class discussions, and reference reading; A study of the human body, considering its essential structural features and more important functions, together with its mode of origin, development, and environmental relationships, with special reference to personal health and fitness for the task of efficient living.

This course is required of all candidates for the A. B. degree, except those who take the more extensive course in Human Physiology (407-408 or 409-410).

(While it is permissible for students to begin this subject in the second semester, there is a distinct advantage in taking it in normal sequence.) Tuesday, 7:30-9:30. [O 25]

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

Lectures, with considerable 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 and eugenics, are studied, in order that the student may acquire a more comprehensive understanding of the whole field of Biology. Thursday, 7:30-9:30. [O 25]

MATHEMATICS—PURE AND APPLIED

PROFESSOR JONES
PROFESSOR EGBERT
MISS LIPSCOMBE

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

Review of elementary algebra, surds, linear and non-linear systems of equations, proportion and variation, inequalities, mathematical induction and binomial theorem, logarithms, theory of equations. Monday, Tuesday, Thursday, Friday, 6:30-7:30. [B 26]

***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. [B 26]

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 class work and laboratory and will fulfil the regular minor requirement for the B. S. degree. In addition to the regular fees there will be an extra laboratory fee of \$2.50 for each semester. A standard college text and laboratory manual will be used.

I. Mechanics, Wave Motion, Sound, and Heat (First Semester) Four credit hours.

Tuesday and Thursday, 7:30-9:30. [O 21]

II. Magnetism and Electricity, Radioactivity and Light (Second Semester) Four credit hours.

Tuesday and Thursday, 7:30-9:30. [O 21]

METALLURGY

MR. SCHAEFER

Metallurgy (First Semester) Two credit hours.

This course is designed for men in the various trades who desire a knowledge of metallurgy. The manufacture and production of pig iron, wrought iron, bessemer and open hearth steel, crucible and electric tool steels will be studied. Included will be a study of the different types of furnaces used and the methods of rolling steel and the purposes for which the different grades of steel are used. Thursday, 7:30-9:30. [E]

Practical Heat Treating (Second Semester) Two credit hours.

This course is a continuation of the course in Metallurgy. A study of the methods of forging and heat treating the various kinds of steel. The course will consider the fuels, furnaces, and materials used in heat treating steel. Lectures and laboratory work in heat treating, pyrometry, microscopic examination and physical testing of steel. The class will be addressed by authorities in their respective subjects. Thursday, 7:30-9:30. [E]

COMMERCE AND ADMINISTRATIONPROFESSOR McDERMOTT
MR. SHAEER

Note: The courses given by the commerce department in the evening session enable a student to begin a regular course in commerce and business administration leading to a degree. It is possible for a student to take one or two business subjects a semester, combining with these such other subjects as English, language, history, government, mathematics, and thus complete the subjects that are required in a regular business course as given in the day session. Courses to meet the needs of the young business man of the city are given. Students interested in courses in accounting, either for a C. P. A. degree, or a general survey of the field of accounting, will find courses to meet their needs. The student interested in real estate courses should take Introduction to Real Estate Practice and Commercial Economics the first semester, and Commercial and Real Estate Law and Real Estate Transfers and Conveyances the second semester.

Bookkeeping and Accounting (Each Semester) Two credit hours. Beginning course.

Science of 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. [E 13]

Accounting (Each Semester) Two credit hours. Advanced Course.

Principles of bookkeeping reviewed; new forms used in accounting introduced; partnership and corporation studied and analyzed; corporation accounting completed; much of the material used gives a fair working knowledge of the simple elements in cost accounting. Thursday, 7:30-9:30. [E 13]

Accounting Problems (Second Semester) Two credit hours. Follows Advanced Accounting.

This is a problem course for those who wish to have a good general review of the subject of general accounting. Problems are taken up in the various fields of accounting which are similar to the work that the student will find in the office, in the industry and in commerce. Students desiring to take a C. P. A. examination will need this course to complete the work in general accounting. Tuesday, 7:30-9:30. [E 13]

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. [E 14]

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. [B 26]

Business and Real Estate 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 in Akron. Tuesday, 7:30-9:30. [B 32]

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. [B 22]

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. [E 14]

***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. [E 14]

Commercial Economics (First Semester) Two credit hours.

Beginning course.

This is a beginning course in economics for the real estate man and the commercial student. It covers the purpose and scope of the subject of commercial economics, the three fundamental laws; value and exchange; the consumer, the buyer, and the trader. A study of the actions of men in buying and selling, and economic reasons back of such actions. A study of land, labor, capital, money, credit, rent, interest, wages. The course is based upon agricultural and land economics texts. Many problems are used. Thursday, 7:30-9:30. [E 14]

Introduction to Real Estate Practice (First Semester) No credit. Beginning course.

A study of the activities of the real estate dealer, the tasks that he performs; forms used in the office of the real estate dealer; renting and management of residential property; renting of commercial property and the management of office buildings; property insurance; selling of business property; selling residential property; real estate advertising; real estate appraisals; real estate finance; subdividing; building operations; legal forms and titles. Tuesday, 7:30-9:30. [E 15]

Real Estate Transfers and Conveyances (Second Semester) No credit. Beginning course.

A course intended for real estate men and others interested in the transfer of property and land. The forms used in the transfer of lots and buildings; papers necessary, and their application to such transfers; land contracts and contracts to sell; leases of all kinds; all forms in the transfer and conveyance of all property of the real estate dealers. Thursday, 7:30-9:30. [E 15]

Advertising (First Semester) No credit.

A practical course in advertising for men working in the advertising field will be given by some of the trained men in the various kinds of advertising in Akron and other parts of the country.

Some of the phases to be discussed are: historical development of advertising; tools of advertising; use and abuse of color; mediums and the facts that determine their value to the advertiser; sales and advertising research and analysis; preparation of copy; tested appeals that secure attention; visualizing your audience before you select the type of appeal to be used; testing the strength of the appeal; bad practices; the ethics of advertising; the future of advertising; legal aspects. Thursday, 7:30-8:30.

A partial list of the men who will talk on these subjects follows:

Gordon Cook, Advertising Counselor-Director.

James Braden, Commercial Printing & Lithographing Company.

John G. Jones, Alexander Hamilton Institute.

Clarence Rohrich, Akron Engraving Company.

James Russell, Superior Printing Company.

M. M. Dice, Commercial Printing & Lithographing Company.

L. L. King, Goodyear Tire & Rubber Company.

W. E. Bryan, Akron Advertising Club.

W. S. Campbell, Miller Tire & Rubber Company.

David L. Brown, Goodyear Tire & Rubber Company.

Hon. C. L. Knight, The Akron Beacon Journal.

E. C. Tibbitts, Wm. H. Rankin Company.

HOME ECONOMICS

PROFESSOR STIMMEL
MISS STINSON

603. **Textiles (First Semester)** Two credit hours. 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. Monday, 6:30-7:30. Wednesday, 7:30-9:30. [C]

604. **Textiles (Second Semester)** Two credit hours. Continuation of 603.

Monday, 6:30-7:30. Wednesday, 7:30-9:30. [C]

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, 10:00-1:00. (Fee, \$4.00 for materials.) [C]

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 for materials.) [C]

PSYCHOLOGY AND EDUCATION

SUPERINTENDENT REED
 DEAN BANKES
 PROFESSOR FLOWMAN
 PROFESSOR HAYES
 ASSISTANT-PROFESSOR KUHNES
 MR. WATERHOUSE
 MRS. MACKINNON
 MISS HOOVER
 MR. SMITH
 MR. MORLEY
 MISS HANSEN
 MR. DILLEHAY
 MR. BRYANT

Note: In addition to courses in Psychology, Education, Art, Methods, and Teaching, all subjects listed in other departments in the courses of study (starred) will be accepted in 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. [B 12]

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. [B 12]

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

A study of misunderstanding, illusions, tact, open-mindedness, changing concepts, pitfalls of reasoning, personality, imagery, character, work saved from drudgery,

loyalty, discouragement, choosing vocations. Tuesday, 7:30-9:30. [B 13]

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: 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. Thursday, 7:30-9:30. [B 13]

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. [B 37]

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

Continuation of Psychology of the Exceptional Child.

1108A. Wednesday, 7:30-9:30. [B 37]

1112. Psychology of Learning (Second 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. Tuesday, 7:30-9:30. [B 13]

1105. Child Psychology (First Semester) Two credit hours.

Biological perspective: The child as a product of his instincts and emotions, epochs of ontogenetic develop-

ment, 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 (Second 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, 10:00-12:00.

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. [B 11]

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. [B 32]

1411. 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. Tuesday, 7:30-9:30. [E 6]

1412. 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. [E 6]

1130. General History of Education (Second 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 (First 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 the Study of Education (Second 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, 8:00-10:00.

1134. Educational Measurements (Both Semesters) Two credit hours.

A 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. [B 32] Second Semester, Saturday morning, 10:00-12:00.

1121. Testing Technique—Binet Scale (First Semester)

Two credit hours.

Description of the Binet-Simon method of individual testing. A consideration of the procedure of giving and

of interpretation of the Binet Scale according to Terman's Standard Revision.

Training under supervision in Binet Testing. Intensive laboratory practice in use of Binet Scale, in testing children in the school. Monday, 7:30-9:30. [B 22]

1122. **Individual Mental Testing (Second Semester)** Two credit hours.

A consideration of the scientific method in connection with mental tests. Practice in gathering data for complete case study of an individual to aid in the interpretation of test scores.

A study of and learning the procedure in giving Performance Mental Tests. Use of Performance Tests and other means of studying the individual.

A brief survey of Group Mental Tests and their uses. Monday, 7:30-9:30. [B 22]

1160. **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. [B 38]

1161. **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 program. Wednesday, 7:30-9:30. [B 38]

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. [B 12]

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

A discussion of ideals which should dominate the influence of the schools and cement the community and educational interests; the relation of various school subjects to life ideals; extra curricular activities and their influence; school discipline and individual self-control. Thursday, 7:30-9:30. [B 12]

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

For teachers of first four grades.

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. [B 37]

1176B. The Auditorium (Second Semester) Two credit hours.

Same as 1176A except the work done is for grades V-VIII. Tuesday, 7:30-9:30. [B 37]

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. [O 25]

1123A. The Elementary School Curriculum (First Semester) Two credit hours.

The curriculum of the elementary school including a study of the fundamental principles which underlie curriculum construction. The following fundamentals will be considered: transfer of training or formal discipline; individual differences in ability; promotions; eliminations; educational objectives; educational value of various subjects.

Members of the class will be given an opportunity to build courses of study in one or more subjects and to

discuss additions to or eliminations from the present course of study. Thursday, 7:30-9:30. [B 13]

1123B. **The Elementary School Curriculum (Second Semester)** Two credit hours.

Continuation of Course 1123A. Thursday, 7:30-9:30. [B 32]

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 for all grades in elementary schools.

Recitations, speeches, conferences. Dramatization once a month.

First Semester, Wednesday, 7:30-9:30. [K 22] 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. [K 22]

METHODS AND TEACHING

ASSISTANT-PROFESSOR KUHNES
 MRS. MACKINNON
 MR. HATTON
 ASSISTANT-SUPERINTENDENT McELBOY
 MISS DACKERMAN
 MISS HOOVER
 MISS CARSON
 MR. WATERHOUSE

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. [E 31]

1209. Objectives in Elementary Education (First Semester) Two credit hours.

A careful analysis of the psychology of each of the elementary school subjects; discussion of factors in the selection of material; and applications of the various methods of classroom procedure. Saturday, 8:00-10:00.

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. Monday, 7:30-9:30. [Conference Room Central High School.]

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

A continuation of Course 1217. Monday, 7:30-9:30. [Conference Room Central High School.]

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 adaptation to the curriculum in the elementary schools. Thursday, 7:30-9:30. [E 14]

1225. Methods in Arithmetic (First Semester) Two credit hours.

Methods and devices for teaching arithmetic; its place in the curriculum for the various grades. Thursday, 7:30-9:30. [E 5]

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. Thursday, 7:30-9:30. [E 15]

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 meth-

ods successfully used in the class room. Special attention given to ear-training, dictation, elementary harmony, and music appreciation. Wednesday, 7:30-9:30. [B 11]

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

Continuation of Public School Music I. Wednesday, 7:30-9:30. [B 32]

1243. **Literature for the Upper Grades (Both Semesters)** Two credit hours.

A careful study of the best selections of literature as suited to grades four to eight inclusive. Special emphasis will be given to the appreciation of the selections and proper methods of presentation to pupils. The course will include the classification of literature as projected in the Platoon Schools. Tuesday, 7:30-9:30. [E 13 First Semester.] [E 15 Second Semester.]

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. [E 15]

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. [K 22]

1407. **Methods in Shop Subjects (First Semester)** Two credit hours.

Objectives: To study the methods used in various vocational schools as a means for determining the most ad-

visible procedure for shop classes; to determine objectives to be attained in shop teaching; to consider methods of class organization and procedure.

Methods: Readings and discussions in "Methods of Shop Teaching;" investigation of shop courses in various public, vocational and trade schools; discussion of lesson plans in various vocations; preparation of theses on some phase of shop teaching. Thursday, 7:30-9:30. [E 6]

1408. **Methods in Shop Subjects (Second Semester)** Two credit hours.

Continuation of Course 1407. Thursday, 7:30-9:30. [E 6]

PHYSICAL EDUCATION

MR. SMITH
MISS DUNCKLEY

1351. **First Aid and Massage (First Semester)** Two credit hours.

Principles and methods of first aid, emphasizing conditions arising from injuries in connection with physical education. Tuesday, 7:30-9:30. [K 22]

1352. **Folk Games (First Semester)** Two credit hours.

Lectures on the characteristics and customs of various countries, with their typical folk games. Folk games and dramatic games given as practical work. Four hours of recitation per week. Monday and Wednesday, 7:30-9:30. [K 36]

1358. **History of Physical Education (Second Semester)** Two credit hours.

A careful study of the history of physical education from early ancient times to the present. Wednesday, 7:30-9:30. [K 36]

1360. **Corrective Exercise (Second Semester)** One credit hour.

Application of physical education to the diagnosis and detection of physical defects. Monday, 7:30-9:30. [B 13]

ART

MRS. BAENHAEDT

1251. **Elements of Art (First Semester)** Two credit hours.

The elementary principles of design, color, lettering, composition and the handling of different mediums. Pre-

requisite for all advanced courses. Wednesday, 7:30-9:30. [C]

1252. **Design, Applied Design, Interior Decoration (Second Semester)** Two credit hours.

Advanced design and the application to various materials through different mediums; study of the home from the standpoint of location, suitability to family needs, arrangement and color harmonies. Wednesday, 7:30-9:30. [C]

1253. **Decorative Design, Home Planning, Costume Design (First Semester)** Two credit hours.

Study of design applied to textiles, pottery, metal and furniture; home planning, including house plans and complete home furnishings; history of costume; adaptation of modern costume. Thursday, 7:30-9:30. [C]

1255. **Home and School Crafts (Second Semester)** Two credit hours.

Applied design, stenciling, block printing, batik, applique, embroidery, tooled and dyed leather, color cement, parchment shades, enamel, gesso, basketry, book binding, toy making. Thursday, 7:30-9:30. [C]

1409. **Mechanical Drawing (First Semester)** Two credit hours.

A thorough study of fundamentals of lettering and mechanical drawing. Monday, 7:30-9:30. [C]

1410. **Mechanical Drawing (Second Semester)** Two credit hours.

Continuation of Course 1409. Monday, 7:30-9:30. [C]

MASTERS' COURSES

DEAN BANKES
PROFESSOR HAYES
ASSISTANT-PROFESSOR KUHNES

1500A. **Seminar (First Semester)** Two credit hours.

Presentation of theses by various members of the class and special problems discussed by persons who may be invited to present them. Open to graduate students. Monday, 7:30-9:30. [B 11]

1500B. **Seminar (Second Semester)** Two credit hours.

Continuation of 1500A. Monday, 7:30-9:30. [B 11]

1505. Thesis (Both Semesters) Four credit hours.

For graduate students preparing to meet the thesis requirements for the Master's degree. No class attendance required in this course but frequent conferences with the major professor are held. At least two appearances before the Seminar are required. A fee of ten dollars is charged in addition to all other fees.

1506. Research Problem (Both Semesters) One or two credit hours.

For graduate students who may be permitted to do additional research after completing the thesis requirements. Open only to students who have received special permission from the major professor. A fee of five dollars is charged in addition to all other fees.

1502. Educational Sociology (Second Semester) Two credit hours.

A study of sociology and its relation to education. Many of the school problems which have as their basis social conditions serve as material for investigation and discussion. An effort will be made to analyze home, city, and state social conditions in the light of their educational significance. The chief aim of the course will be to define and analyze the social forces so that some of the problems of the school, the curriculum and the administration may be approached in a more satisfactory manner. Thursday, 7:30-9:30. [B 37]

1523. Economy and Hygiene of Mental Processes (Second Semester) Two credit hours.

The aim of this course is to acquaint the student with the more important problems in modern experimental education in relation to the more efficient methods of learning both from the pedagogic and hygienic basis. A brief distinction between "methods of learning," "forms of teaching," and "methods of teaching," on the basis of experimental education will be made. The main aims, methods, results, interpretations and conclusions in the field of the learning process will receive major attention. Saturday, 8:00-10:00.

1526. Genetic Psychology (First Semester) Two credit hours.

The course is designed to present the facts concerning

the development of the mind of the child. A study will be made of the ontogenetic and phylogenetic influences. It will provide opportunity for the observation of children of different ages and for the examination and evaluation of the theories relative to Child Psychology. Saturday, 8:00-10:00.

1528. Advanced Educational Psychology (First Semester) Two credit hours.

This course reviews the various contributions of general psychology; it then makes application of the principles and laws to the teaching process. On this basis it aims to establish a series of psychological principles which should govern school practices. Psychological problems, as they may appear in the school room, will furnish the material for discussion. Prerequisite, General Psychology. Open to advanced and graduate students. Thursday, 7:30-9:30. [E 31]

1560. The Classroom Teacher and Administrative Organization (First Semester) Two credit hours.

The purpose of this course is to establish a basis for sane and constructive thinking regarding the relation of the classroom teacher and the administrative organization—the board of education, the superintendent, the principal and the supervisor. Wednesday, 7:30-9:30. [B 22]

1561. Educational Administration (Second Semester) Two credit hours.

The purpose of this course is to introduce students to the field of public school administration. The following problems will be taken up: state organization and control of schools; state, county, city and district organization; the functions of supervisory and administrative officers; the financial support of schools; school buildings and equipment; proposed changes in organization of the educational system; compulsory school attendance; grouping children for instructional purposes; the training, selection, tenure, and pay of teachers; supervision of instruction; extension of school activities and current criticisms of the public school system. Wednesday, 7:30-9:30. [O 25]

1562. **Extra Curricular Activities (Second Semester)**
Two credit hours.

The purpose of this course is to point out the significance of extra curricular activities in the intellectual, moral, social, and physical maturing of the child; the unifying influence on education as a whole, and the manner in which the regular curriculum is connected with life. Saturday, 10:00-12:00.

1578. **Educational Philosophy (First Semester)** Two credit hours.

A course in philosophical thinking designed to orient teachers in the problems of education and life. A careful consideration of the following problems will be taken up: education as a necessity of life and as a social function, the democratic conception of education and educational values. Saturday, 10:00-12:00.

FIRST SEMESTER SCHEDULE

MONDAY
6:30-7:30 p. m.
 Political Parties
 Algebra
 Textiles
 History

7:30-9:30 p. m.
 Primary Methods
 1217
 Testing Technique
 1121
 Mech. Drawing 1409
 Folk Games 1352
 Seminar 1500A
 Latin

TUESDAY
6:30-7:30 p. m.
 Algebra

7:30-9:30 p. m.
 1 Year French
 2 Year French
 1 Year Spanish
 2 Year Spanish
 American Govt.
 Elementary Speech
 Human Biology
 Physics
 Bus. & Bank. Finance
 Ind. & Com. Geog.
 Intro. Real Estate
 Gen. Psych. 1102A
 Edu. Psych. I 1103
 Psych. Shop Subj.
 1411
 First Aid 1351
 The Audit. 1176A
 Educa. Measur. 1134
 Prin. Instru. Sec.
 Education 1201A
 Lit. Upper Classes
 1243

WEDNESDAY
6:30-7:30 p. m.
 Rhetoric 51
 Intro. to Lit. 63

7:30-9:30 p. m.
 Political Parties
 Textiles
 Applied Sociology
 History
 Book. & Account.
 Cost Accounting
 Hist. of Educ. in
 Pract. Arts 1401
 School Organ. 1160
 Story Telling I 89
 Folk Games 1352
 Pub. Sch. Music 1231
 Psych. Excep. Child
 1108A
 Classroom Teach. &
 Admin. Organ. 1560
 Ele. of Art 1251

THURSDAY
6:30-7:30 p. m.
 2 Year French
 2 Year Spanish
 Algebra

7:30-9:30 p. m.
 1 Year French
 1 Year Spanish
 Adv. Story Tell. III
 American Govt.
 Adv. Speech
 Physics
 Adv. Accounting
 Com. Economics
 Advertising
 Funda. of Biol.
 Personal Hyg. 1172
 Arith. & Meth. 1225
 Meth. in High School
 English 1229
 Meth. in Shop
 Subjects 1407
 The Elem. School
 Curricu. 1123A
 Adv. Edu. Psych.
 1528
 Decora. Design, Home
 Plant, Cost. 1253
 Metallurgy

FRIDAY
6:30-7:30 p. m.
 Algebra

7:30-9:30 p. m.
 Rhetoric 51
 Intro. Lit. 63
 Indu. & Com. Geog.

SATURDAY

8:00-10:00 a. m.
 Story Tell. II 90
 Hist. Educa. 1131
 Obj. in Elementary
 Education 1209
 Genetic Psych. 1526

10:00-12:00 a. m.
 Child Psych. 1105
 Educ. Philos. 1578

EVENING SESSION

191

SECOND SEMESTER SCHEDULE

192

EVENING SESSION

MONDAY
6:30-7:30 p. m.
Govt. & Bus.
Trigonometry
Textiles
History

7:30-9:30 p. m.
Latin
Prim. Methods 1218
Ind. Mental Test.
1122
Mech. Draw. 1410
Seminar 1500B
Appl. Phys. Ed. 1360

TUESDAY
6:30-7:30 p. m.
Trigonometry

7:30-9:30 p. m.
1 Year French
2 Year French
1 Year Spanish
2 Year Spanish
American Govt.
Elem. Speech
Human Biology
Physics
Acctg. Problems
Business and Real
Estate Law
Ec. Dev. of U. S.
Lit. for Primary
Grades 1244
Gener. Psych. 1102B
Psych. of Shop Subj.
1412
The Auditorium
1176B
Lit. Upper Classes
1243
Prin. Instru. Sec.
Education 1201B
Psych. Learn. 1112

WEDNESDAY
6:30-7:30 p. m.
Rhetoric 52
Intro. Lit. 64

7:30-9:30 p. m.
Gov. & Business
Textiles
History
Book. & Accounting
Cost Accounting
Salesmanship
Design, Appld. Des.,
Int. Decor. 1252
Hist. Phys. Ed. 1358
School Organ. 1161
Psych. of Except.
Child 1108B
Story Tell. II 90
Public School Music
II 1232
Meth. Ele. Hist. 1240
Educa. Admin. 1561
Admin. of Vocational
Education 1116

THURSDAY
6:30-7:30 p. m.
2 Year French
2 Year Spanish
Trigonometry

7:30-9:30 p. m.
1 Year French
1 Year Spanish
Adv. Story Tell. IV
American Govt.
Adv. Speech
Physics
Adv. Accounting
Real Estate Trans.
and Convey.
Meth. in Shop Sub-
jects 1408
Nature Study 1178
Meth. in Geog. and
Science 1224
Com. & Civic Ideals
1174
Ele. School Cur.
1123B
Educa. Psych. II
1104
Home & School Crafts
1233
Metallurgy
Educa. Sociol. 1502

FRIDAY
6:30-7:30 p. m.
Trigonometry

7:30-9:30 p. m.
Rhetoric 52
Intro. Lit. 64
Econ. Dev. U. S.

SATURDAY

8:00-10:00 a. m.
Story Tell. I 89
Gen. Hist. Ed. 1130
Intro. to Study Edu-
cation 1133
Economy and Hy-
giene Mental
Proc. 1523

10:00-12:00 a. m.
Psych. Adolesc. 1107
Educa. Measur. 1134
Extra Cur. Activ.
1562

**TEACHERS COLLEGE
1924 SUMMER SESSION**

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 1923 summer school met the standards of the regular courses of the institution; courses for 1924 are planned so that students of 1923 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 1924. Graduate courses leading to a Master's degree in Teachers College are organized so that students may complete the work for this degree in Summer Sessions.

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 third year of the Summer Session of the Municipal University of Akron will open June 23 and continue until August 1. Class exercises in each subject will be held every week day except Saturday. 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.

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 Session 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

Practice Teaching may be done in the various grades and in high school in the Akron City Schools. Those who plan to do Practice Teaching should notify Dean W. J. Bankes on or before June first.

Training for Platoon Schools

Teachers College offers special training for teachers in Platoon Schools. Some of these classes are offered in the Summer Session. Special courses for the Auditorium and Literature classes for the various grades present opportunity for those specially interested in that type of work.

Appointment Bureau

The Director of the Summer Session is Chairman of the Appointment Bureau for the University. The Summer Session students are given opportunity to enroll for appointment without extra fee. In 1923 a great many students of the Summer Session were placed in desirable positions.

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 24 and carry out the schedule provided on the last page of the catalog. Registration will take place in Room 38, Buchtel Hall, June 23, from 8:00 a. m. to 5:00 p. m. Any person registering after June 23 will be charged an additional fee of \$1 for the first day and twenty-five cents for each additional day of delay. June 26 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. Payment of a transfer fee of \$1 will be charged. 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 23, 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 Thursday 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 26—"Teachers College as an Opportunity for Advancement," C. R. Reed, Supt. of Schools, Akron, Ohio.

July 3—A patriotic program will be arranged.

July 10—Story Telling program given by the Story Telling Department of the University.

July 17—A diversified program by The Progress Quartette:

Miss Edna Smith	Pianist
Mr. Gustave Bonstedt	Flutist
Mr. Lawrence Schlatter	Cellist
Mr. Edwin Marquardt	Violinist

July 24—Program by the Department of Vocal and Dramatic Expression of the University directed by Miss Carita McEbright.

July 31—Song and Harp Recital:

Miss Mabelle Miller	Soprano
Harry Chalmers	Harpist

Expenses

A tuition fee of \$4 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 Session.

COURSES OF INSTRUCTION

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

Psychology and Education	1101-1200
Methods and Teaching	1201-1250
Art	1251-1260
Graduate Courses	1500-1600

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 Kuhnes.**

S1102B. General Psychology. Two hours.

Last half of text book, including concrete operations of the mind. Perception; association; memory; imagination; thinking; reasoning; feeling; emotion and will; consciousness and behavior; the self; its unity, divisions, and mutations; psychology and life.

Prerequisite, S1102A or its equivalent. **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 Kuhnes.

S1176. The Auditorium. Two hours.

A study of the different activities as found in the auditoriums of Platoon Schools; organization of course of study for the auditorium; and discussion of comparative values of auditorium practice.

Mr. Dillehay.

S1130. General 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. Bryant.

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. Bryant.

S1185. Directing Study. Two hours.

Each year more is being said about the direction of study as a necessary element in the teaching process.

Teaching has reached the stage where a knowledge is necessary of the principles and the actual practice of directing the study of all types of children in the upper grades and in the high schools. An attempt will be made in this course to show the necessity for directing study among the upper grades and in the high schools, as well as specific methods for conducting this method of teaching in various subjects as well as under various conditions.

Mr. Ferguson.

S1133. Introduction to Study of Education. Two hours.

The aim of this course is to teach the evaluation of school room practices; historic background of such studies; survey the various methods of instruction, including study of promotion, classification, and rating of teachers. The student should gain a knowledge of the theories upon which educational practices are based.

Mr. McElroy.

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.

S1134. Educational Measurements. 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.

Mr. Bates.

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.

S1210. Principles of Teaching. Three 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. The class will recite two periods per day the last three weeks so that three hours' credit may be given to satisfy the State requirements for certification. Those who desire graduate credit will be required to do extra readings and make extra reports.

Dean Bankes.

S1213. Practice Teaching.

Akron City Schools will be in session so that teachers needing practice teaching 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. Those desiring to do practice teaching should notify Dean Bankes not later than June 1.

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.

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.**

S1240. History and Methods. 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.

Miss Hoover.

S1209. Objectives in Elementary Education. Two hours.

A careful analysis of objectives in each of the elementary school subjects; factors in the selection of material; types of organization necessary to realize the various objectives and applications of various methods of teaching.

Mr. Bates.

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. Newlin.

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. Prerequisite, S51.

Mr. Newlin.

S63. Introduction to Literature. Two 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.

Professor Pease.

S80. The English Novel. Two 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. **Professor Pease.**

S68. Word Study. Two hours.

The work centers in the study of words—their origin, their development and history, their significance, their habits. A knowledge of Greek and Latin, while not essential, will be of material assistance to anyone taking the work. A helpful course for anyone, whether or not especially interested in languages and language-study.

Dean Spanton.

S73. Nineteenth Century Poetry. Two hours.

A study of the more important work of the leading British poets of the nineteenth century exclusive of Tennyson and Browning, including especially Wordsworth, Coleridge, Byron, Shelley, Keats, Matthew Arnold, the Rossettis, and Swinburne.

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.

S53. News Writing and Editing. Two hours.

Members of this class will be required to write news and feature stories for publication. Class work consists

of lectures on the theory of news gathering, news writing, and news editing. Some of the outstanding daily newspapers will be studied and professional and student's work criticised.

Mr. Vance.

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.

S213B. Sociology. Two hours.

Textbook, and discussions covering social origins, social processes, social forces, social control, social progress and social laws, social ideals, social pathology, poverty, crime, and degeneration. Problems of social administration, including methods of investigation and research. Prerequisite, S213A.

Professor Olin.

BIOLOGY

S401. General Biology. Four hours.

One lecture and three hours and twenty minutes in laboratory work daily. This is essentially the same as the first semester of 401-402 in the regular college course, except that some of the work may be done in the field, rather than in the laboratory.

The subject matter will include the Thallophytes, and the lower animals, up to and including the worms. Students will receive full college credit for this course, but attention is called to the fact that this is only one-half of the General Biology required as a prerequisite for advanced study in the department. Laboratory fee, \$2.50.

Professor Plowman.

S413. Human Biology. Two hours.

Lectures and recitations one hour daily. No prerequisites. A study of the human mechanism, consider-

ing its essential internal processes and its broader environmental relationships, with special reference to personal health and fitness for the task of efficient living.

First half of the regular college course in Human Biology, which is required of all candidates for the A. B. degree, except those who elect the course in Human Physiology. **Professor Plowman.**

MODERN LANGUAGE

S171. **First Year Spanish.** Four hours.

Grammar, reading, dictations, conversation. Two hours each day. **Mr. Tailliant.**

MATHEMATICS

S301. **Trigonometry.** Four hours.

Functions of angles, trigonometric equations, identities, solutions of triangles, inverse functions, and de Moivre's Theorem. Two hours each day. **Professor Jones.**

ART

S1251. **Elements of Art.** Two hours.

The elementary principles of art leading up to work in design, water color, etc. Double period each day. **Mrs. Barnhardt.**

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. **Mrs. Barnhardt.**

POLITICAL SCIENCE

S261B. **American State Government.** Two hours.

Work of the state; composition of the state; framework of state governments; recent tendencies in state activities; changes in administration; problems of administration and of legislation; legislative methods; content of state legislation; state elections; state taxation and finance; popular control over state government; rights and duties of citizenship. **Professor Crecraft.**

S262. **American City Government.** Two hours.

The growth and development of cities; problems peculiar to urban life; modern tendencies in city government;

municipal powers and functions; city electorate; the efficiency of the city voter; nominations, elections and election campaigns; city councils; boards; commissions; the city administration and its activities; charters and current reform movements. **Professor Crecraft.**

S268. World Politics. Two hours.

A course in the development of modern international relations. The expansion of Europe in Asia and Africa. The growth of nationalism and imperialism. The position of the United States as a world power. International conferences since the war. Text: Gibbon's Introduction to World Politics. (Credit in this course is given in the History department as well as in Political Science. In the former it is credited as Political Geography. In the latter it is credited as World Politics. **Professor Crecraft.**

Note—24 hours constitutes a major in the Political Science department. Credits in the Arts College at present are generally desired in units of three, six, nine, twelve, etc. By taking three of the above courses students may work off a maximum of six hours in the Political Science department, which is the equivalent of one semester of work in any one course in the Arts College, or by taking two of the above, the student may work off one semester of his freshman required course in American Government of four hours.

PUBLIC SCHOOL MUSIC

S1231. Elementary Theory. Two hours.

A study of the rudiments of music including the staff, clefs, key signature, measure signatures, note values, Latin syllables and their use in sight reading in the work of the primary grades. In this course the student gains the power to think tones, sense rhythms, and learns to recognize and write simple melodic phrases in all keys.

Miss Dackerman.

S1232A. Public School Music. Two hours.

This course is devoted to the study and demonstration of materials and methods for Kindergarten and the first four years in music. Special attention is given to the

presentation of the different tonal and rhythmic problems as they are taken up in the successive years. Prerequisite, Elementary Theory or the ability to sing, at sight, material suitable for the third grade. **Miss Dackerman.**

S1232B. Public School Music.

This course is devoted to the teaching of music in the upper grades, from the fifth to the eighth inclusive. The work of each year is taken up in detail and the problems which confront the grade teacher are carefully considered. Prerequisite, Elementary Theory and Public School Music, S1231. **Miss Dackerman.**

Note—Demonstration lessons with different groups of children will be given once each week in Courses S1232A and S1232B. Students of experience or exceptional ability will be permitted to take both of these courses at the same time.

SPEECH

S97. Voice and Speech. Two hours.

Physical exercises for normal carriage and gestures. Personality is carefully studied and preserved, while the appearance and address are aided in the process of development toward the normal type of cultivated manhood and womanhood. Such a training is essential for every walk in life, whether business or social.

Miss McBright.

S91. Interpretation, and Reading Rehearsals. Two hours.

Vocal expression follows the preliminary practice in Voice and Speech training. Inflection, tone color, grouping, tempo, etc., as means of vocal expression, and as modes of expression, simplicity, responsiveness, abandon, etc., are carefully studied. Plays are rehearsed for reading purposes as exercises in dramatic delivery and reading of lines.

Miss McBright.

**FOR GRADUATES AND ADVANCED
UNDERGRADUATES**

S1526. Genetic Psychology. Two hours.

The course is designed to present the facts concerning the development of the mind of the child. A study will be made of the ontogenetic and phylogenetic influences.

It will provide opportunity for the observation of children of different ages and for the examination and evaluation of the theories relative to Child Psychology.

Professor Hayes.

S1108B. Psychology of the Exceptional Child. Two 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.

Professor Hayes.

S1107. Psychology of Adolescence. 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.

Professor Hayes.

S1502. Educational Sociology. Two hours.

A study of sociology and its relation to education. Many of the school problems, which have as their basis social conditions, serve as material for investigation and discussion. An effort will be made to analyze home, city, and state social conditions in the light of their educational significance. The chief aim of the course will be to define and analyze the social forces so that some of the problems of the school, the curriculum, and administration may be approached in a more satisfactory manner.

Mr. McElroy.

S1590. The Management of an Elementary School. Two hours.

A course of special training in the technique of the principalship. Problems of the principal and his assistants

in organizing, directing and supervising the activities of pupils in elementary schools. This course is intended for superintendents, principals, and general supervisors in elementary schools and for those who are looking forward to these positions. **Mr. McElroy.**

S1578. Educational Philosophy. Two hours.

A course in philosophical thinking designed to orient teachers in the problems of education and life. A careful consideration of the following problems will be taken up: Education as a necessity of life and as a social function, the democratic conception of education and educational values. **Professor Kuhnes.**

VOCATIONAL EDUCATION

Teachers College is a federal unit in vocational education under the Smith-Hughes law. On this account any student registering for any of the courses in vocational education will be required to pay a registration fee of \$2.50 only for each course.

These courses are open to all vocational teachers and prospective teachers of vocational subjects as well as principals and supervisors.

The outline of the courses conforms to the State and Federal Plan which leads to the Smith-Hughes certificate. These courses, in addition to the above credit, are accepted for college credit toward the degree.

Enrollment in each course must be sufficient to satisfy the State and Federal Director of Vocational Education.

Those expecting to enroll in vocational courses should notify the Director of the Summer Session on or before June 15.

S1420. Trade Analysis. Two hours.

Analysis and classification of Trade Processes.

Objectives: To establish in the mind of the student the necessity for the analysis of a trade for teaching purposes; to teach the student the proper procedure in the analysis of a trade; to assist the student in determining the relative educational values of trade processes with

the object of establishing an instructional order; to arrange and group the various trade processes for use in the compilation of instruction sheets and lesson plans.

Methods: Assigned readings to establish the purpose and method of trade analysis; listing the various processes of a trade with which the student is familiar; consideration of methods used in the classification of the operations involved in any given job; individual application of this classification to various trades. **Mr. Jellison.**

S1422. Principles of Trade Teaching. Two hours.

Objectives: To study the methods of arranging the instruction material into a definite instructional order; to classify the processes in the development of the lesson plan and instruction sheet; the evaluation of the instruction sheet in classroom instruction and in industry; to acquaint the student with the problem of group and individual instruction; and to study the processes of trade instruction.

Methods: Each student of the class will block out lessons in his own particular trade with reference to the order of instructional difficulties; the student will outline lesson plans showing the instruction order within a particular "block"; class discussions of teaching operations; and reports on assigned readings. **Mr. Jellison.**

S1411. Psychology of Trade Teaching. Two hours.

Objectives: To acquaint the student with the fundamental principles underlying human behavior; to give the student a concept of the mental processes involved in education; to study the mental processes in their relations to the conduct of men in industry; to establish a better foundation for the teaching of trade subjects through an appreciation of the mental characteristics of the industrial worker.

Methods: Assigned readings on various topics as indicated by the outline; class discussions of reports by students; special investigations of some phase of the field by the student and a written report covering this work. **Mr. Jellison.**

SCHEDULE

All courses are credited in Teachers College. Those starred receive credit in the Liberal Arts College.

7:15 a. m. to 8:15 a. m.—*History of Education in the United States, B-32; The Project, B-37; Arithmetic and Methods, B-15; *Story Telling, K-22; *Trigonometry, B-22; *Home and School Crafts, B-12; *General Biology (Laboratory), O-34; *Word Study, B-38; *Spanish, B-25; *World Politics, B-26; The Management of an Elementary School, B-13.

8:25 a. m. to 9:25 a. m.—*General Psychology (A), B-25; *General History of Education, B-22; Primary Methods, B-32; Geography and Methods, B-15; *English 51, B-37; *Home and School Crafts, B-12; Elementary Theory of Music, B-13; *General Biology (Laboratory), O-34; *American State Government, B-38; *Psychology of the Exceptional Child, O-25; *General Sociology (B), B-26; *Introduction to Study of Education, K-22; Trade Analysis, B-11.

9:35 a. m. to 10:35 a. m.—Methods in Reading, B-22; Literature for Upper Grades, B-37; *English 52, B-15; Principles of Teaching, B-38; Principles of Trade Teaching, B-11; Public School Music (Primary Grades), B-13; *General Biology (Laboratory), O-34; *Nineteenth Century Poetry, B-32; *Psychology of Adolescence, K-22; *Educational Measurements, B-25; The Auditorium, O-25; *General Psychology (B), B-26.

10:45 a. m. to 11:45 a. m.—*Educational Psychology, B-37; Literature for Primary Grades, B-32; *General Sociology (A), B-26; *Trigonometry, B-22; *Spanish, B-25; Public School Music (Upper Grades), B-13; *Voice and Speech, K-36; Directing Study, B-15; Objectives in Elementary Education, B-38; *Genetic Psychology, B-11; *Educational Sociology, K-22.

1:00 p. m. to 2:00 p. m.—Conduct of the Recitation in Secondary Schools, B-22; History and Methods, B-13; *English Literature, B-38; *Art 1251, B-12; *Educational Philosophy, B-37; *News Writing and Editing, B-26; *Psychology of Shop Subjects, B-25; *General Biology (Recitation), O-25.

2:10 p. m. to 3:10 p. m.—Education (Junior High School), B-26; *The English Novel, B-22; *Art 1251, B-12; Principles of Teaching (Last three weeks), B-38; *Human Biology, O-25; *American City Government, B-13; *Interpretation and Reading, K-36.

Note—B refers to Buchtel Hall; O to Olin Hall; and K to Knight Chemical Building. The number after each subject indicates room numbers where classes will recite.

Students taking Trigonometry, Spanish or Art must take two periods each day.

Assembly exercises will be held each week on Thursday from 10:00 to 11:00 o'clock a. m. Class periods on Thursday morning will be as follows:

7:00 to 7:55	9:00 to 9:55
8:00 to 8:55	11:05 to 12:00

Class exercises in each subject will be held each week day except Saturday. Summer Session begins Tuesday, June 24. Registration, Monday, June 23.

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 of Akron.

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 111.

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 complete at least five years of college work.

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 BUCHEL 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, horticul-

ture, 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 215.

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.

GENERAL REQUIREMENTS IN BUCHEL 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.

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

**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, and with all required minors completed, 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 or 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.

Pre-Dental Year

After 1926, every Class A dental school will require for entrance one year of college work in addition to graduation from a first-grade high school. Classes are so arranged in the Arts College of the University of Akron that pre-dental students have no difficulty in getting the required pre-dental studies.

The work includes:

Chemistry—4 credit hours each semester

Biology —4 credit hours each semester

Rhetoric —3 credit hours each semester

*Mathematics or Foreign Language—4 credit hours each semester.

Physical Training —1 credit hour each semester

Freshman Lectures— $\frac{1}{2}$ credit hour each semester

*Students who did not have Physics in high school must take college physics in place of foreign language or mathematics.

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 Bureau continues to do bacteriological milk and water analy-

ses, 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 the 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 appraisal 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.

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 Session

The University offered courses in the following subjects in late afternoon and evening classes to the people of Akron during the academic year 1923-24.

Algebra	School Organization
American Government and Politics	Methods in Junior and Senior High School English
Applied Sociology	Public School Music I and II
Accounting	Principles of Art
Bookkeeping and Accounting	Psychology of Exceptional Child
Business and Banking Finance	Personal Hygiene
Cost Accounting	Use of Library
First Year French	Psychology of Adolescence
Second Year French	General History of Education
First Year Spanish	Introduction to Scientific Study of Education
Second Year Spanish	Psychology of Learning
Foods	Seminar
Fundamentals of Biology	Abnormal Psychology
Heredity	Objectives in Secondary Education
Physical Training .	Mental Testing
Mechanics	The Project
Speech, Elementary	Methods in Arithmetic
Speech, Advanced	Literature for the Primary Grades
Story Telling I and III	Scientific Analysis of Vocational Subjects and Principles of Trade Teaching
Trigonometry	Administration of Vocational Education
Labor Problems	Corrective and Constructive Physical Training
Business Law	Methods in Elementary History
Economic Development of the U. S.	Nature Study
Human Biology	Modern Elementary School Practice
Practical Psychology	Methods in Geography and Elementary Science
Salesmanship	Community and Civic Ideals
Political and Social History of Europe from 1860 to 1920	Child Psychology
Wave Motion, Sound and Heat	Anthropology of the School Child
Primary Methods	Social Psychology
Penmanship and Methods	Educational Sociology
Testing Abnormal Children	Educational Administration
General Psychology	
Psychology of Shop Subjects	
Educational Measurements I	
The Auditorium	
Principles of Instruction in Secondary Education	
History of Education in Practical Arts	

In addition to these courses the University has co-operated with the State Board of Vocational 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, the Superintendent of Schools and the Dean of Teachers College. 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.

REGISTER OF STUDENTS

1923-1924

BUCHTEL COLLEGE OF LIBERAL ARTS**GRADUATE STUDENTS**

Bingham, Helen	Akron
A. B., University of Missouri	
Cable, William Sanford	Akron
B. S., Municipal University of Akron	
Cronan, Grace Mitchell	Akron
A. B., Municipal University of Akron	
Davies, John Morris	Akron
B. S., Municipal University of Akron	
Ellis, Robert D.	Akron
B. S., Municipal University of Akron	
James, Mary E.	Akron
A. B., University of Wisconsin	
Kauffman, Edgar Marsh	Akron
A. B., Wittenberg	
Krueger, Arthur Christian	Wisconsin
B. S., University of Wisconsin	
Martin, Samuel Maner, Jr.	Clemson College, S. C.
B. S., Clemson College	
Penfield, Harold W.	Buffalo, N. Y.
B. S., University of Buffalo	

Total, 10—7 Men, 3 Women

SENIOR CLASS

Course

Averell, Natalie Eleanor	B. S.	Akron
Bordner, Ada	B. S.	Akron
Brewster, Albert James	A. B.	Akron
Breitenbucher, Jacques	B. S.	France
Brown, Ross C.	A. B.	Akron
Brown, Ruth Blanch	A. B.	Akron
Caspari, Marie B.	A. B.	Akron
Cole, Elizabeth	A. B.	Norwalk
Evans, Wesley Sterling	A. B.	Akron
Frampton, Eulalia	A. B.	Akron
Froebe, Caroline Moore	A. B.	Akron
Fynn, Robert	A. B.	Akron
Gore, Warren H.	B. S.	Chagrin Falls
Grimm, Rhea Beyerle	A. B.	Akron
Harper, Dora Nice	A. B.	Kenmore
Hollingsworth, Esther	A. B.	Akron
Holsinger, Harris William	A. B.	Akron
Hunt, Schuyler William	B. S.	Akron
Hurwitz, Simon	A. B.	Akron

Jenkins, Verlin	A. B.	Akron
Kneale, F. Edna	A. B.	Akron
Kniffin, Hazen G.	A. B.	Stryker
Knoske, Mildred Kathryn	A. B.	Cuyahoga Falls
Krager, Lenore Ethel	A. B.	Akron
Kraus, Edward Henry	B. S.	Akron
Kregenow, Edwin	A. B.	Akron
Kuenzli, Dorothy S.	A. B.	Akron
Long, Mac Dennis	A. B.	Akron
MacKinnon, Wallace LeBoy	B. S.	Akron
Macrory, Eva B.	A. B.	Akron
Masterson, Kathleen Marie	A. B.	Akron
Miller, Clinton Raymond	A. B.	Akron
Miller, Bolland Snyder	A. B.	Kent
Minnich, Harold A.	A. B.	Barberton
Owens, Ruth	A. B.	Akron
Place, Pauline	A. B.	Akron
Ports, Ruth	A. B.	Akron
Quick, Ralph E.	A. B.	Akron
Rowley, John Grether	A. B.	Akron
Schrank, Harry	B. S.	Akron
Shaffer, Joshua Casper	B. S.	Lupin
Shuman, Mary	A. B.	Akron
Snyder, Catherine	A. B.	Akron
Spencer, Addison Deigh	A. B.	Auburn, Ala.
Strottner, Leonard	B. S.	Akron
Stump, Carl M.	A. B.	Akron
Suloff, John	A. B.	Akron
Tucker, Alice Griffin	A. B.	Akron
Van Berg, Harry Nelson	A. B.	Akron
Van Buskirk, Donovan L.	A. B.	Cuyahoga Falls
Werner, Paul Edward	A. B.	Akron
Winer, Sylvia	A. B.	Akron
Wortman, John	B. S.	Akron
Total, 53—30 Men, 23 Women		

JUNIOR CLASS

	Course	
Ackley, Ruth Virginia	A. B.	Akron
Alexander, Carl	B. S.	Akron
Alexander, Ruth	A. B.	Bath
Auten, Russell G.	A. B.	Akron
Averell, Mrs. C. W.	A. B.	Akron
Baker, Deming Elmon	B. S.	Akron
Bear, Irene	A. B.	Akron
Blake, Estella	A. B.	Akron
Brant, Claude Carson	A. B.	Akron
Braley, Leola DuPratt	A. B.	Akron
Brown, Enslin Charles	A. B.	Akron
Buehl, Lothman Harold	A. B.	Akron
Carey, Fern	A. B.	Akron
Carman, Frank H.	B. S.	Barberton

Carnahan, Audra	A. B.	Akron
Childs, Agnes Rose	A. B.	Akron
Christ, Harding Simon	A. B.	Akron
Corl, Ralph Lee	A. B.	Uniontown
Cowan, Lester	A. B.	Akron
Crawford, John Denniston	B. S.	Akron
Crews, Violet	A. B.	Akron
Dickerhoof, Ralph Franklin	A. B.	Akron
Dilley, Gilbert W.	A. B.	Akron
Dunford, Esther Bessie	A. B.	Akron
Eberhard, Theodore Philip	A. B.	Akron
Ellis, Freda Lillian	A. B.	Akron
Ellsworth, Charles Kail	A. B.	Akron
Fanning, Margaret	A. B.	Akron
Farlin, Mary Elizabeth	A. B.	Akron
Fish, Lola	B. S.	Akron
Frank, Doris Margaret	A. B.	Fairlawn
Fraser, James Edward	A. B.	Akron
Fulkerson, Morris Amos	B. S.	Spring Valley
Galehouse, Marion	A. B.	Akron
Gehres, Margaret	A. B.	Akron
Gregg, Margaret Helen	A. B.	Akron
Gribben, Clara	A. B.	Akron
Hassenfue, Marjory	B. S.	Akron
Henry, Pauline	B. S.	Akron
Himes, Barbara	A. B.	Akron
Hoss, Evelyn Josephine	A. B.	Akron
Immler, Florence	A. B.	Barberton
Jenkins, Hayes	A. B.	Akron
Jones, John Robert	A. B.	Akron
Kalmon, Morris	B. S.	Akron
Karam, Adib	B. S.	Akron
Keeler, Bertsyl O.	B. S.	Akron
Klingensmith, Barclay A.	A. B.	Akron
Krotzer, Walter Farnham	A. B.	Dunmore, Pa.
Leonhard, Gladys	A. B.	Akron
Lilliedale, Mervin	A. B.	Akron
McClurg, Paul Thompson	A. B.	Akron
McCoy, States D.	B. S.	Akron
MacKinnon, John G.	B. S.	Akron
McShaffrey, Regina Agnes	A. B.	Akron
Mason, Kenneth A.	A. B.	Akron
Matz, James William	A. B.	Akron
Miller, Nellie	A. B.	Uniontown
Mong, Harold	A. B.	Barberton
Moodie, Hilda A.	A. B.	Akron
Moore, Fred	A. B.	Akron
Moskovitz, Fred	A. B.	Akron
Nelson, Irvin	A. B.	Akron
Nieman, Helen Esther	A. B.	Akron
Oatts, James David	A. B.	Akron
Paul, Winifred Mary	A. B.	Akron
Pfeife, Nola	A. B.	Akron

Pitkin, Thomas M.	A. B.	Akron
Purdy, John F.	B. S.	Akron
Raynow, Anna Kathryn	A. B.	Akron
Reichenstein, Selma	A. B.	Akron
Reiter, Harold Franklin	B. S.	Akron
Rhodenbaugh, Charles	A. B.	Akron
Roberts, Mildred	A. B.	Akron
Sanderson, Paul Nicholas	A. B.	Akron
Sapp, Celia	A. B.	Akron
Schmidt, Luella Sophia	A. B.	Akron
Shaffer, Raymond Willard	A. B.	Akron
Smith, Amelia K.	A. B.	Clinton
Smith, Lula Henrietta	A. B.	Akron
Snyder, James Ernest	B. S.	Akron
Snyder, Russell F.	B. S.	Williamsport, Pa.
Stilwell, Clair	A. B.	Akron
Taylor, George	B. S.	Akron
Taylor, Margaret Grace	A. B.	Cuyahoga Falls
Thomas, Harry Hall	A. B.	Akron
Thorn, Homer Zelle	B. S.	Akron
Walker, Newport Hughes	A. B.	East Akron
Waltz, Ruth	B. S.	Akron
Wells, Alton Revoe	A. B.	Akron
Werner, Albert Richard	A. B.	Akron
Williams, Theodore Martin	A. B.	Akron
Wilson, Rebecca Howard	A. B.	Akron
Wise, Crile Nicely	A. B.	Akron
Total, 94—52 Men, 42 Women		

SOPHOMORE CLASS

Course

Allen, Frank L.	B. S.	Akron
Ault, Honor	A. B.	Akron
Baldwin, Helen	A. B.	Medina
Barnholth, Thelma	A. B.	Akron
Baumgardner, Donald Mills	A. B.	Akron
Beck, Gretchen	A. B.	Akron
Bennett, Roy E.	A. B.	Barberton
Blake, Laura	B. S.	Akron
Boettler, Roy	B. S.	Greentown
Boyer, Carl	B. S.	Akron
Brubaker, John	A. B.	Akron
Brueggeman, Walter M.	A. B.	Akron
Cahill, Louis J.	B. S.	Akron
Cain, Frederic George	A. B.	Akron
Campbell, John Harold	A. B.	Akron
Cauffield, Margaret	A. B.	Akron
Chevraux, E. Grace	A. B.	Canton
Clemenger, Marguerite	A. B.	Akron
Cookro, Rose Mary	A. B.	Akron
Cowles, Bernice	A. B.	Cuyahoga Falls
Cox, Bernice Jessamine	A. B.	Akron
Cramer, Howard Irving	B. S.	Cuyahoga Falls

Cranz, Laura Elizabeth	A. B.	Everett
Dashevsky, Ezekial	B. S.	Akron
Davis, Frederick W.	B. S.	Akron
Davis, Vernon Francis	A. B.	Cuyahoga Falls
Denison, Kenneth Sweeney	A. B.	Akron
Denning, Eugene Benjamin	A. B.	Akron
Doran, Dorothy Ann	A. B.	Akron
Doutt, Howard M.	A. B.	Akron
Eastman, Frances Alfreda	A. B.	Akron
Eastman, Frederic John	A. B.	Akron
Edwards, Asa Luther	B. S.	Akron
Engwall, Conrad A.	B. S.	Akron
Ferrington, Mildred	A. B.	Akron
Figenscher, Murray A.	A. B.	Akron
Gilbert, Alice	A. B.	Akron
Goldenberg, Meyer	B. S.	Akron
Gordon, Meyer	A. B.	Akron
Grigsby, Lewis Albert	B. S.	Akron
Groom, Maynard Harold	B. S.	Conway, Iowa
Hahn, Agnes E.	A. B.	Akron
Hansen, Christian Lawrence	A. B.	Akron
Hardy, Ruby Elizabeth	B. S.	Cuyahoga Falls
Harris, Robert Foote	A. B.	Akron
Hassenfue, Dorothy	A. B.	Akron
Hatch, Thomas M., Jr.	A. B.	Akron
Hinton, James	A. B.	Akron
Horning, Frances E.	A. B.	Akron
Johnson, Joseph	B. S.	Akron
Jones, James N.	A. B.	Cuyahoga Falls
Kepler, Jack Johnston	A. B.	Akron
Koplin, Nathan	A. B.	Akron
Koval, Mary Rose	A. B.	Akron
Kreiselman, Benjamin	A. B.	Akron
Krill, Carl Emil	B. S.	Akron
Larabee, Byron Hanley	B. S.	Akron
Laumann, Paul H.	A. B.	Akron
Lawler, Doris	A. B.	Akron
Lebold, Vivian	A. B.	Akron
Liles, Susan	A. B.	Akron
Lincoln, Mildred Hazen	A. B.	Akron
Littman, Joseph B.	B. S.	Akron
Mackey, Thomas	B. S.	Akron
Mahoney, Harry Leonard	A. B.	Akron
Miller, James O.	A. B.	Akron
Minter, Irene	A. B.	Akron
Mitchell, Leonard	B. S.	Akron
Morgenroth, Myron	A. B.	Akron
Olmstead, Eleanor	A. B.	Akron
Ormsby, Ross Royer	A. B.	Akron
Osborne, Frances Marion	A. B.	Akron
Palmquist, Dennis William	A. B.	Akron
Purdy, Lottie	B. S.	Akron
Rasor, Ralph Eugene	A. B.	Akron

Iogers, Harold, G.	A. B.	Akron
Loth, Allen	B. S.	Akron
Ruch, Paul Elmer	A. B.	Akron
Sheldon, Frank	A. B.	Akron
Short, Cheryl M.	B. S.	Akron
Solomon, Joseph	A. B.	Akron
Spanton, Margaret	A. B.	Akron
Steinmetz, Joseph	A. B.	Akron
Subrin, Hyman	A. B.	Akron
Talley, Dwight Marshall	B. S.	Akron
Tenney, Audra	A. B.	Akron
Terrass, Milford E.	B. S.	Akron
Triplett, Earl Daily	B. S.	Akron
Wagstaff, Donald Andrew	B. S.	Akron
Walker, Elizabeth	A. B.	Akron
Weiler, Joseph	B. S.	Barberton
Wells, Helen	A. B.	Massillon
Whigam, Madge Mary	A. B.	Akron
White, Ruth	A. B.	Akron
Woloch, George	A. B.	Akron
Wood, Russell George	A. B.	Akron
Wooddell, Mildred	A. B.	Akron
Wygant, Thelma Marie	B. S.	Akron
Total, 98—61 Men, 37 Women		

FRESHMAN CLASS

Alpeter, James	Akron
Anderson, Marjorie	Akron
Armstrong, Alice	Akron
Aune, Abram E.	Akron
Austin, Lorraine Lucille	Akron
Averell, Max Wilson	Akron
Azar, Edward	Akron
Barbian, Homer Livingston	Sharon, Pa.
Ballard, Pebble Jimmie	Akron
Ballinger, Victor Herbert	Akron
Barger, Freda M.	Washington C. H.
Barrett, Lois	Akron
Bauman, Gerald Berdell	Akron
Beachler, W. Foster	Medina
Bennett, Lee A.	Capac, Mich.
Berlesky, Stephen Harry	Barberton
Best, Warner Edwin	Akron
Bitter, Raymond Edward	Akron
Blackburn, Helen	Akron
Bordner, Paul	Akron
Boss, George	Akron
Bowman, Robert H.	Akron
Brewster, Marian Marthana	Akron
Brown, Marian	Akron
Bunnell, John H.	Akron
Bunting, John H.	Fairfield, Ill.
Burke, Monroe M.	Oconto, Wis.

Burns, Evelyn	Cuyahoga Falls
Carney, Donald F.	Akron
Cassidy, Fred	Akron
Cassidy, Harold	Akron
Carnes, Norwood S.	Akron
Chenot, Helen	Akron
Clarke, Edward J. Orville	Akron
Cohen, Harry	Akron
Cohen, L. Norman	Akron
Collins, James	Akron
Coup, Charles	Akron
Crankshaw, Jesse	Akron
Cross, Winifred Lona	Akron
Crummel, Glen	Akron
Crumrine, Robert	Wadsworth
Dashevsky, Nathan	Akron
Davis, Donald	Akron
Davis, Jay	Bath
Demming, Perry T.	Akron
Derwort, Marcus	Akron
DeSure, Edward	Akron
DeSure, Julius	Akron
DeSure, Rose	Akron
Deutschman, Samuel	Akron
Dey, Alice	Akron
Dickerhoof, Galen	Akron
Eaken, William	Akron
Ellsworth, Grace Lytle	Akron
Epstein, Naomi	Akron
Esgate, Jean Virginia	Akron
Evans, Elizabeth	Akron
Evkovich, William	Akron
Falor, Alice	Akron
Faylor, Roy	East Akron
Flippo, Theodore	Akron
Fontaine, Russell B.	Akron
Fraley, William Albert	Fannin, Ky.
Fraser, Edith	Akron
French, Louis Adrian	Akron
Gadel, Joseph C.	Akron
Gerhart, Henry	Akron
Gitow, Lillian	Akron
Gladding, Boneita	Kenmore
Gladwin, Copeland Stephen	Akron
Greenhouse, Leah	Akron
Gresham, Norman Curtis	Akron
Grim, Henry Earl	Stryker
Gross, Dorothy	Akron
Grubb, Edwin W., Jr.	Akron
Haaf, Edward C.	Everett
Haber, Eugene B.	Akron
Harding, Kenneth	Akron
Harpley, Marie K.	Akron

Hart, Thomas F.	Akron
Henderson, George W., Jr.	Tuskegee, Ala.
Henninger, Delbert	Akron
Herrick, Robert	Akron
Heyer, Lilly	Akron
Hodgden, Guy	Akron
Hoffman, Mildred	Akron
Horst, Harriet Eleanor	Akron
Irvin, Robert Theodore	Akron
Jenkins, Charles	Akron
Johnson, George Edgar	Akron
Karam, Harvey F.	Akron
Kaufhold, Donald Leigh	Akron
Kaufman, Huber	Akron
Kepple, Helen	Akron
Kinson, Winifred	Akron
Klahre, Ethel	Akron
Kline, Arthur Addison	Akron
Kline, Spencer	Akron
Kondritzer, Albert	Akron
Kopf, Willard E.	Akron
Koval, Anthony	Akron
Kramer, Dale	Akron
Kraus, Emma Dorothy	Akron
Kregenow, Ernest	Akron
Labovitz, William	Akron
Lambright, Nancy	Akron
Leggett, Mortimer Knowlson	Akron
Leonard, Donald Edward	Akron
Lewin, Charles	Kenmore
Lewin, John Andrew	Kenmore
Lewis, John T.	Akron
Limber, Grace I.	Akron
Lineberger, Ralph E.	Akron
Litsinger, Thelma	Akron
Long, Robert	Kenmore
Lutz, Wilford	Akron
McClure, Reed Chidester	Medina
McDonald, Dorothy	Cuyahoga Falls
MacLeod, Fern Rose	Akron
McLaney, Loudell	Akron
McLean, Royal Cecil	Akron
Mackey, Laura Frances	Akron
Magilavy, Ann L.	Akron
Mallalieu, Wanda	Akron
Manes, L. Louis	Akron
Mason, Clement	Akron
Medwin, Jeannette G.	Akron
Meier, Helen Jane	Akron
Mell, Dorothy	Copley
Merriman, Donald	Wadsworth
Milford, Grace Arline	Akron
Miller, Isadore	Akron

Morganstern, Louis	Akron
Morris, Philip	Akron
Moskovitz, Leo J.	Akron
Murvine, Everett F.	Akron
Myers, Forest	Akron
Myers, William Gonder	Akron
Nelson, Harold Clifford	Akron
Nichols, Robert Clarence	Akron
O'Connor, Brendan	Akron
Oplinger, George W.	Akron
Osoorne, Arthur D.	New York
Palmer, Julia Kathryn	Akron
Parker, Harold	Akron
Perry, William T.	Akron
Pittenger, James	Akron
Pittenger, William J.	Akron
Plappert, Edward	Akron
Pollard, Maude	Akron
Pontious, George	Akron
Porterfield, Oneita	Akron
Raymond, Frank Mason	Akron
Beam, George B.	Akron
Bedinger, Catherine Jeannette	Akron
Reece, Jane	Akron
Replogle, Ward	Archbold
Rice, Waldron A.	Akron
Richert, Paul	Kenmore
Robertson, Lowell	Akron
Robinson, Dorothy G.	Laurium, Mich.
Romweber, Richard	Akron
Ross, Alice	Barberton
Ross, Clyde Emery	Barberton
Rowe, Floyd L.	Akron
Ruttman, Walter	Akron
Ryan, Raymond F.	Akron
Safreed, Clair	Akron
Schieber, Helen Ruth	Akron
Schumaker, Sherman O.	East Akron
Seacrist, Karl	Akron
Seiler, Francis B.	Akron
Sexauer, Kathryn Alice	Akron
Sheinin, Louis	Akron
Shreve, Dorothy	Akron
Smead, Elmer E.	Akron
Smith, Alexander William	Akron
Smith, Helen I.	Kenmore
Sommers, Ralph	Akron
Spaght, Harold	Cuyahoga Falls
Spiker, Emma Catherine	Akron
Spivey, William Lorraine	Akron
Sproul, Wayne	Akron
Stanford, Dortha	Akron
Stein, Celia Alice	Akron

Stevens, Thomas L.	Akron
Stewart, Earl	Akron
Supowit, Ruth	Akron
Swanson, David T.	Brockmayville, Pa.
Tapper, Rose	Akron
Terrass, Elizabeth	Akron
Theobald, Adrien Daniel	Akron
Thomas, John Paul	Akron
Townsley, Charles	Akron
Union, Julius	Akron
Van Hyning, Robert Charles	Akron
Van Nostran, Myron	Canton
Wagner, Joseph E.	Marshallville
Waltz, Francis Homer	Wadsworth
Warner, Leonard E.	Cuyahoga Falls
Wheeler, James Boyd	Akron
Winer, John E.	Kenmore
Wines, Richard John	Akron
Witwer, Frederick Charles	Akron
Wolfe, Winnifred	Akron
Worthington, Margaret	Akron
Wright, Earl	Akron
Zimmerman, Paul	Akron
Total, 209—147 Men, 62 Women	

IRREGULAR STUDENTS

Atkinson, Edna	Akron
Brown, Grace	Akron
Burch, Marjorie	Akron
Cable, Clarence	Akron
Chalfant, Anna Belle	Akron
Corvington, Henri	Akron
Dorman, Richard M.	Akron
Evans, Maurice	Akron
Ferbstein, Bessie Epstein	Akron
Kempel, Ernest J.	Akron
Mason, Ruth Elizabeth	Akron
Pamplin, Robert Alan	Akron
Rawdon, Elmer	Akron
Tisdale, Chester	Akron
Williams, Arthur F.	Columbus
Total, 15—9 Men, 6 Women	

SPECIAL STUDENTS

Calvert, May Gorby	Akron
Caudill, Mildred	Akron
Crawford, Mrs. Chester	Akron
Espenhain, Anne	Akron
Firey, Milton	Akron
Forrest, C. E.	Akron
Garvis, Jonathan	Roumania
Harwick, Curtis J.	Akron
Odom, Young S.	Akron

Schell, Minnie	Akron
Schmidt, Bruno	Akron
Tague, Irma B.	Akron
Wagner, Francis A.	Akron
Yarnell, Harry B.	Akron
Total, 14—8 Men, 6 Women	

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

Course

Allaman, H. C.	E. E.	Akron
Easton, James	C. E.	Akron
Fletcher, Laurel E.	C. E.	Ravenna
Herbruck, Howard W.	M. P.	Akron
Myers, Herbert B.	C. E.	Akron
Olson, Leland A.	C. E.	Jamestown, N. Y.
St. John, Bertram	C. E.	Athol, Mass.
Smith, Harold F.	C. E.	Akron
Thierry, James, Jr.	C. E.	Akron
Thomas, William H.	M. E.	Akron
Tiley, Clyde F.	M. P.	Meridian, Miss.
Van Hyning, Norman	C. E.	Barberton
Vanica, Pearl R.	M. P.	Akron
Wilson, Ross E.	E. E.	Akron
Total, 14 Men		

JUNIOR CLASS

Course

Cole, Lester M.	M. E.	Akron
Cooper, Ralph F.	E. E.	Akron
Glass, William John	C. E.	Akron
Harrington, F. Theodore	M. E.	Akron
MacDonald, Levi Alexander	C. E.	Canada
Michelson, Louis F.	M. E.	Akron
Moody, Dwight L.	M. E.	Akron
Salber, Eugene J.	C. E.	Akron
Van Brimmer, Ralph M.	C. E.	Delaware
Waggoner, Charles	E. E.	Akron
Total, 10 Men		

PRE-JUNIOR CLASS

Course

Albertson, Donald S.	M. E.	Cuyahoga Falls
Battels, Clare W.	M. E.	Akron
Benson, Courtney Edward	C. E.	Athol, Mass.
Britsch, Harold	I. E.	Akron

Brown, Ralph J.	M. E.	Akron
Clendenin, William D.	C. E.	Akron
Funk, James W.	C. E.	Akron
Glasheen, Francis D.	I. E.	Athol, Mass.
Harding, Hugh W.	C. E.	Akron
Harding, John L.	C. E.	Akron
Hartz, Phillip L.	I. E.	Akron
Hoch, Harold C.	C. E.	Akron
Javins, William M.	C. E.	Dunbar, W. Va.
Kastner, Edward C.	M. E.	Akron
Kleckner, Marion B.	E. E.	Akron
Limbach, Oscar C.	C. E.	New Philadelphia
Petrie, Raymond W.	C. E.	Akron
Sauter, Thomas	C. E.	Williamsport, Pa.
Scharenberg, Leonard	C. E.	Everett
Shook, Melvin L.	E. E.	Akron
Snider, Elwin Robert	M. E.	Ravenna
Snyder, Paul J.	M. E.	Akron
Snyder, Richard F.	C. E.	Williamsport, Pa.
Swanson, George C.	C. E.	Jamestown, N. Y.
Wagner, John Forest	C. E.	Marshallville
Whiteman, Henry	M. E.	Akron
Total, 26 Men		

SOPHOMORE CLASS

Course

Allen, Dave B.	M. E.	Akron
Appleby, Wilbur U.	M. E.	Akron
Arter, John B.	C. E.	Piedmont
Barbura, John	E. E.	Akron
Boerngen, Clyde	M. E.	Canton
Burgan, Kenneth E.	E. E.	Cuyahoga Falls
Cunningham, Cecil	C. E.	Heaters, W. Va.
Damon, Donald L.	C. E.	Gerry, N. Y.
Fletcher, C. Harry	C. E.	Akron
Fulton, Harold	M. E.	Kenton
Guillod, William	M. E.	Canton
Hackett, Paul	I. E.	Akron
Hampp, Paul G.	I. E.	Kenmore
Hanson, Earl	E. E.	Akron
Hanson, Frank	M. E.	Akron
Hexamer, Homer L.	E. E.	Canton
Hooley, Kenneth R.	E. E.	Akron
Hufler, J. Peter	E. E.	Canton
Krichbaum, David N.	M. E.	Canton
Luff, Wayne W.	C. E.	Kent
McCoy, James W.	C. E.	Kent
Newhall, Clifton	C. E.	Akron
Preston, Howard T.	C. E.	Cuyahoga Falls
Qualters, Richard L.	I. E.	Athol, Mass.
Rhodes, Frank R.	M. E.	Darlington, S. C.
Schafer, Joseph E.	E. E.	Akron
Schmucker, Leroy	E. E.	Stryker

REGISTER

Seckel, Rollie J.	E. E.	Galion
Shaffer, Lee J.	E. E.	Akron
Starr, Troy S.	E. E.	Gerry, N. Y.
Stewart, Thomas	M. E.	Rockland, Me.
Thorp, Carl	M. E.	Ravenna
Tryon, Ralph C.	E. E.	Akron
Waring, Marland David	E. E.	Akron
Williams, Harry R.	C. E.	Akron
Wingertter, Ralph A.	C. E.	Akron
Wiseman, Matthew	E. E.	Akron
Wisok, Samuel B.	E. E.	Akron
Worthen, Samuel Keith	E. E.	Barberton
		Total, 39 Men

FRESHMAN CLASS

Course

Andrus, George	M. E.	Akron
Baker, Paul Kenneth	E. E.	Akron
Bault, Robert	M. E.	Wadsworth
Bender, John	M. E.	Magnolia
Bishop, Glenn L.	E. E.	Rock Creek
Blount, Kenneth M.	E. E.	Akron
Clark, George G.	E. E.	Akron
Davison, Earl	E. E.	Akron
Decker, Robert M.	E. E.	Ostrander
Dettling, Ted	M. E.	Akron
Dierdorf, William Elwood	C. E.	Akron
Eberle, Edward	I. E.	Peninsula
Emerick, Samuel W.	C. E.	Kingsville
Eshelman, Irwin	C. E.	Orrville
Fisher, Leland V.	M. E.	Akron
Fitzgerald, Francis	E. E.	Akron
Gunsaulis, Lloyd	E. E.	Kenmore
Gurin, Edward I.	M. E.	Akron
Hadfield, Robert W. M.	E. E.	Akron
Harter, Alvin Raymond	C. E.	Akron
Haskell, L. Earl	E. E.	Cuyahoga Falls.
Hoopas, Frederick Winfield	E. E.	Akron
Huff, William Boyd	I. E.	Akron
Hutchison, Wallace	M. E.	Akron
Icenhower, Joseph	M. E.	Copley
Johnson, Paul Victor	C. E.	Conneaut
Jones, Arnold Morton	E. E.	Akron
Jones, Theodore S.	E. E.	Akron
Kempel, Leo U. E.	M. E.	Akron
Kennedy, Kenneth James	M. E.	Akron
Kirn, Walter N.	I. E.	Akron
Knecht, Leslie S.	M. E.	Barberton
McCluer, Henry O.	M. E.	Akron
McCracken, Robert	E. E.	Cuyahoga Falls.
McFarland, J. Franklin	E. E.	Akron
Mallory, Donald	E. E.	Cuyahoga Falls.

Marmita, Valentine G.	I. E.	Philippine Islands
Matz, Claude A.	M. E.	Akron
Menough, Donald F.	E. E.	Bavenna
Miller, Vernon C.	C. E.	Orrville
Mills, Donald William	M. E.	Akron
Minnick, Wilbur	E. E.	Akron
Moore, Claude A.	E. E.	Akron
Mote, Herbert G.	C. E.	Arcanum
Payn, Wallace S.	M. E.	Peninsula
Powell, David M.	M. E.	Akron
Pyle, Forrest J.	C. E.	Piketon
Bang, Lester F.	E. E.	Akron
Reiser, Ben	C. E.	Akron
Ritter, Edwin Ernest	E. E.	Kent
Roach, Harold	E. E.	Akron
Robison, Ewing	M. E.	Akron
Roeger, Glen W.	E. E.	Krumroy
Schwab, Albert G.	I. E.	Patton, Pa.
Seib, William	M. E.	Akron
Senn, Donald	E. E.	Cuyahoga Falls
Shaffer, Donald	C. E.	Akron
Shanafelt, Paul W.	E. E.	Suffield
Sommers, Ralph	I. E.	Akron
Sorrick, Charles H.	I. E.	Akron
Sparr, Ralph	M. E.	Akron
Theophilus, Thomas,	C. E.	Akron
Third, Michael W.	E. E.	Akron
Tucker, Richard	E. E.	Akron
Vanouse, Harold W.	E. E.	St. Paul, Minn.
Viall, Carl S.	C. E.	Akron
Weltzien, Clyde W.	E. E.	Wadsworth
Williams, Frank M.	C. E.	Akron
Wing, Loren	I. E.	Peninsula
Young, Albertus Jesse	M. E.	Akron
		Total, 70 Men

IRREGULAR STUDENTS

	Course	
Corvington, Jules	E. E.	France
Gujin, Nicholas	E. E.	Akron
Rockwell, Theodore F.	M. E.	Akron
Taylor, Lawrence	C. E.	Akron
		Total, 4 Men

SPECIAL STUDENTS

	Course	
Branan, Alvord W.	M. E.	Lunden City, Ga.
Cole, Lincoln	C. E.	Akron
Delagrang, Carl R.	E. E.	Barberton
Greenwald, Russell	E. E.	Akron
Hartman, Edward	E. E.	Barberton
Hitchcock, Rowland	C. E.	Cuyahoga Falls

Howe, F. Donald	E. E.	Kent
Jackson, Wallace N.	M. E.	Kenmore
Nye, N. H.	M. E.	Cadillac, Mich.
Stewart, Earle	M. E.	Kenmore
		Total, 10 Men

Department of Commerce

SENIOR CLASS

Bachmann, Anthony G.	Akron
Barnes, Harold W.	Akron
Colley, Harold C.	Akron
Millar, James A.	Akron
Rauschenberger, Fred	Akron
Steel, Raymond	Akron
Stevens, Paul	Akron
Willyard, Eldred	Ravenna
Total, 8 Men	

JUNIOR CLASS

Auld, James H.	New Wilmington, Pa.
Cadden, Dorothy	Akron
Firick, William	Akron
Hagenbaugh, Robert	Akron
Haller, Leonard F.	Wadsworth
Hayden, Walter H.	Akron
Hutchison, John Edward	Akron
Miller, Philip	Akron
Pfeife, Earl C.	Akron
Smith, Ralph K.	Akron
Spessard, Dwight S.	Akron
Stillwell, Byron	Akron
Ulrich, Albert	Akron
White, Richard E.	Springfield
Total, 14—13 Men, 1 Woman	

SOPHOMORE CLASS

Baker, Russell L.	Akron
Burge, Dorothy	Akron
Cutler, James	Akron
Dorn, Ruth M.	Akron
Doup, Russell	Akron
Enright, Mary	Akron
Failor, Frederic W.	Akron
Fickes, Robert	Akron
Gower, Mason E.	Akron
Harrington, Russell P.	Akron
Herberich, Richard	Akron
Hester, Lotha W.	Vina, Ala.
Lansinger, Howard	Akron
Miller, Harold	Cuyahoga Falls
Milliken, Robert	Chicago, Ill.
Rahner, Clarence	Akron
Rahner, Julia	Akron

Reading, Donald E.	Akron
Reed, Margaret	Akron
Riblett, Dorothy	Akron
Russell, Mildred	Akron
Rutherford, Robert J.	Akron
Eyan, Earl	Cuyahoga Falls
Schoch, Joseph	Akron
Shaffer, Harry J.	Akron
Shea, Eunice	Akron
Shinn, Herbert	Passaic, N. J.
Short, L. Roger	Akron
Smith, John C.	Akron
Solomon, William	Canton
Thomas, Harold	Akron
Wetzel, George	Akron
Wilkinson, Raymond	Akron
Winer, Arthur Y.	Akron

Total, 34—26 Men, 8 Women

FRESHMAN CLASS

Bair, Lowell	Akron
Benn, Paul E.	Akron
Bock, Fred	Akron
Bretzius, Winifred	Akron
Brewster, Hiram	Akron
Chapin, John Willard	Akron
Costello, Kathryn	Akron
Etling, Harold H.	Akron
Glassner, Alphonso	Akron
Hippensteale, George	Akron
Johnson, Lillbern B.	Akron
Kenney, Samuel R.	Akron
Kreinberg, Paul W.	Akron
Lodge, William Ellsworth	Cuyahoga Falls
Merryweather, Clyde	Akron
O'Hara, Marion	Cuyahoga Falls
Pfromm, Dorothy E.	Akron
Rehak, Mildred	Akron
Roeger, Dorothy	Akron
Rose, Malcom W.	Canton
Roth, Norbert M.	Akron
Schneider, Paul G.	Canton
Semler, Helen	Akron
Shaw, Robert O.	Akron
Tritt, Russell B.	Sawyerwood
Whitmore, Russell	Akron
Wilson, Elwood T.	Akron

Total, 27—21 Men, 6 Women

IRREGULAR STUDENTS

Fletcher, Paul	Akron
Kinkade, Byron	Olney, Ill.
Martin, Wesley	Akron

REGISTER

Paschal, Martin F.	Enterprise, Ala.
Schultz, Esther	Akron
Schultz, Delwin O.	Akron
Stuver, Helen M.	Akron
Wells, Reginald D.	Akron
Zimmerman, Jack J.	Akron
Total, 9—7 Men, 2 Women	

SPECIAL STUDENTS

Bialostocki, Solly	Poland
Cora, Albert M.	Roumania
Elwarner, Chester W.	Akron
Gill, Paul W.	Akron
Kabelin, Mike	Akron
Queen, Herman B.	Ashland, Ky.
Wood, Athel W.	Cuyahoga Falls
Total, 7 Men	

CURTIS SCHOOL OF HOME ECONOMICS

GRADUATE STUDENT

Howard, Mrs. Clarice	Akron
A. B., University of Kentucky	
Total, 1 Woman	

SENIOR CLASS

Bailat, Esther	Akron
Hallinan, Dorothy Grace	Akron
Kolbe, Lydia Voris	Akron
Pfahl, Hilda	Akron
Roth, Cordelia Catherine	Akron
Urpman, Helena M.	Akron
Total, 6 Women	

JUNIOR CLASS

Averell, Marjorie	Akron
Bachtel, Harriet Elizabeth	Akron
Belden, Mary A.	Akron
Blaire, Lillian	Akron
Dettling, Genevieve	Akron
Dettling, Vivienne	Akron
Hanawalt, B. Virginia	Akron
Hanson, Helen	Akron
Kovacs, Chloe Lins	Akron
Rhoades, Jessie	East Akron
Stalknecht, Dorothy E.	Akron
Teepie, Kathryn Susan	Akron
Wilkinson, Sara Burke	Akron
Zerbe, Mary Elizabeth	Akron
Total, 14 Women	

SOPHOMORE CLASS

Dannemiller, Helen E.	Akron
Everhart, Helen	Akron
Glass, Wilma Pauline	Akron
Holloway, Elizabeth Ann	Akron
Houston, Margaret	Akron
Hubbard, Audree	Akron
Hunsicker, Edna	Akron
Minner, Leah	Akron
Peck, Dorothy Gladys	Kent
Shaw, Florence	Akron
Smith, Virginia	Gillette, Wyo.
Snook, Irene	Cuyahoga Falls
Tobin, Katherine Ann	Akron
Welton, Hilda Edna	Akron
Total, 14 Women	

FRESHMAN CLASS

Baughman, Mildred Frances	Akron
Bowman, Mary	Akron
Burr, Irma	Akron
Davidson, Jane	Akron
Hedlund, Margaret	Akron
Horning, Irene	Akron
Kennedy, Alverda	Akron
Kitchingman, Feryll	Akron
Krill, Olive	Akron
Lawrence, Harriet	Akron
McNaughton, Jeannette	Akron
Nye, Helen	Akron
Otis, Marie L.	Akron
Reynolds, Mabel L.	Akron
Scheuneman, Martha	Akron
Swan, Frances	Akron
Tydings, Beatrice	Akron
Wells, Winifred	Akron
Williams, Marion Althea	Akron
Total, 19 Women	

IRREGULAR STUDENTS

Allen, Mrs. Hugh	Akron
Barnhardt, Jane S.	Akron
Total, 2 Women	

SPECIAL STUDENTS

Branch, Irene	Akron
Hanaver, Celia	Akron
Total, 2 Women	

TEACHERS COLLEGE

GRADUATE STUDENTS

Arenson, Anne	Akron
B. S., Municipal University of Akron	

Arenson, Bertha	Akron
B. S. in Home Economics, Municipal University of Akron	
Blackburn, M. Alene	Akron
A. B., Municipal University of Akron	
Braley, Eloise York	Akron
B. S. in Home Economics, Municipal University of Akron	
Gray, Edith Grace	Akron
A. B., Municipal University of Akron	
Cauffield, Rachel Doris	Akron
B. S. in Home Economics, Municipal University of Akron	
Hawk, Ada	Akron
A. B., Municipal University of Akron	
Hibbard, Mary Cranz	Akron
A. B., Municipal University of Akron	
Hoover, Frances Alice	Akron
B. S. in Home Economics, Municipal University of Akron	
Huren, Genevieve	Cuyahoga Falls
A. B., Municipal University of Akron	
Keck, Olive	Akron
B. S. in Home Economics, Municipal University of Akron	
Lizawetsky, Bessie	Akron
A. B., Municipal University of Akron	
Naugle, Jacob Vivian	Akron
A. B., Municipal University of Akron	
Place, Marguerite	Akron
A. B., Municipal University of Akron	
Rothrock, Mary Jane	Akron
A. B., Municipal University of Akron	
Schweigl, Emilie Marie	Akron
A. B., Municipal University of Akron	
Teeple, Beulah I.	Akron
A. B., Hiram College	
Waldkirch, Gladys	Akron
A. B., Ohio State University	
Williams, Winifred	Akron
A. B., Wells College	

Total, 19—1 Man, 18 Women

SENIOR CLASS

Flint, Roy M.	Akron
French, Josephine Barber	Akron
Fricker, Agnes M.	Akron
Hickox, Agnes M.	Barberton
Hipkins, Harriet Spalding	Akron
Irwin, William J.	Akron
Mearig, John Frederick	Akron
Pfeifle, Bessie	Akron
Purdy, Ruth O.	Akron

Total, 9—3 Men, 6 Women

JUNIOR CLASS

Austin, Ruth Hazel	Akron
Brubaker, Irene	Akron
Chestnutt, Florence	Akron

Corl, Ralph E.	Uniontown
Crankshaw, Esther Jane	Akron
Cummins, Jane	Akron
Cunningham, Lillian	Akron
Davies, Helen	Cuyahoga Falls
Derer, Gustav	Akron
Dunn, Annabel F.	Akron
Fosnight, Robert McKinley	Akron
Frank, Clara Melissa	Barberton
Gille, Grace	Akron
Gilmour, Margaret	Akron
Griffiths, Irene	Akron
Hall, Robert Parc	Akron
Hayes, Lois Jeanette	Akron
Heilman, A. Loretta	Akron
Honeywell, Nina	Akron
Jones, Edna	Akron
Jordan, Sanford Lee	Akron
Jurgens, Leona	Akron
Kline, Dorothy E.	Akron
Kraus, Rose Mary	Akron
McMillen, Neva Elizabeth	Akron
Miller, Helen	Akron
Minnick, Helen Anna	Akron
Minns, Eloise	Akron
Morton, Doris	Akron
Parker, Marilla A.	Kenmore
Pollock, Kathleen	Akron
Raison, Malissa	Akron
Randall, Gahnelle Shaffer	Akron
Raynow, Ann Kathryn	Akron
Reed, Eunice	Pomeroy
Riblett, Leila	Akron
Rimer, Robert Hall	Kenmore
Sanderson, Margaret Ruth	Akron
Sarlson, Mary	Akron
Scott, John B.	Akron
Smith, Leona	Akron
Van Berg, Marie	Akron
Waltz, Alberta Elizabeth	Wadsworth
Wilcox, Mary Virginia	Cuyahoga Falls
Williams, Frank Curtis	Cuyahoga Falls
Williams, Laura	Akron
Zink, Margaret E.	Akron
Total, 47—8 Men, 39 Women	

SOPHOMORE CLASS

Ault, Mrs. Eva D.	Akron
Bachman, Frances D.	Akron
Barber, Dorothea	Akron
Beckwith, Katharine Virginia	Akron
Boedicker, Howard R.	Akron
Braverman, Mrs. Dora	Akron

Conger, Elizabeth	Peninsula
Davidson, Dorothy	Akron
Ellis, Anna Jennie	Akron
Fulton, Margaret	Akron
Furbay, Nora	Akron
Hail, Margaret Tanner	Akron
Herbig, Welthea Margaret	Akron
Holloway, Mary Jeanette	Akron
Houchin, Cecile	Akron
Imbrie, Mary Edna	Akron
Lanigan, Dorothy C.	Barberton
Lantz, Kathryn	Akron
Larson, Jennie	Akron
Mattingly, Ruth M.	Akron
Morar, Margaret	New York
Olmsted, Bernice	Akron
Orin, Pauline	Akron
Palmer, Ruth Josephine	Akron
Pomeroy, Velma M.	Akron
Quigley, Gwendolyn	Akron
Ritch, Angela	Akron
Schaenzlin, Elizabeth Ruth	Akron
Simmons, Dorothy	Akron
Small, Jessie	Akron
Smith, Jean P.	Akron
Staver, Radna	Akron
Van Berg, Helen C.	Akron
Welch, Marjorie	Kenmore
Winters, Fern	Akron
Wyant, Margaret Fay	Akron

Total, 36—2 Men, 34 Women

FRESHMAN CLASS

Adams, Virginia Louise	Akron
Armitage, Esther Fletcher	Akron
Bachman, Mary	Akron
Bailey, Catherine	Akron
Barrett, Dorothy	Akron
Briggs, J. Pearl	Akron
Carson, Gertrude Snow	Akron
Chenot, Helen	Akron
Christensen, Edna	Akron
Conway, Ruth	Akron
Cooper, Lois Genevieve	Akron
Cowles, Frances A.	Akron
Dailey, Roy Thomas	Greentown
DeHaven, Florence	Cuyahoga Falls
Derwort, Joseph	Akron
Dettling, Dorothy	Akron
Eckert, Margaret	Akron
Fairbanks, Helen Alma	Akron
Fassnacht, Ruth	Akron
Felber, Anna Marie	Akron

Friedman, Ruth H.	Akron
Hackett, Elizabeth Ellen	Akron
Hafner, Ethel	Akron
Haskell, Lucius Earl	Cuyahoga Falls
Holub, Miriam	Akron
Hunsicker, Sarah Alberta	Akron
Irvin, Helen E.	Akron
Jackson, Carola Maxine	Akron
Jones, Theodore S.	Akron
Kaiser, Elizabeth	Akron
Kennedy, Leah Evelyn	Akron
Koltnow, Rose	Akron
Lang, Geraldine	Akron
Lieberman, Bessie	Akron
Lilley, Mary Esther	Akron
Lind, Pauline	Akron
Lybarger, Grace	Akron
McCahan, Vera	Akron
Marks, Eunice	Akron
Mason, Sara	Akron
Master, Lucile	Akron
Mendelson, Jeanette Clara	Akron
Miller, Frank B.	Akron
Miller, Frieda	Akron
Molyneux, Alice	Akron
Moore, Elnora	Akron
Motmiller, Neva	Barberton
Nicodemus, Alberta	Akron
Parker, Louise Frances	Akron
Peters, Viola	Akron
Pritchard, Estherbell	Akron
Raley, Ruth	Akron
Rausch, Jeanette Elizabeth	Akron
Reemsnyder, Eva	Cuyahoga Falls
Rivkin, Frieda	Akron
Roberts, Pauline	Akron
Ross, Alice	Barberton
Rothschild, Frances Olga	Akron
Smyers, Arveta	Akron
Sarbinsky, Anne	Akron
Sparhawk, Evelyn Lucy	Akron
Stoley, Leonora Mary	Akron
Wagner, Ethel	Akron
Wargo, Frank	Akron
Wilkinson, Ruth	Akron
Wilson, Mary Ellen	Akron
Wilson, Margaret	Akron
Wolfe, Lillian	Akron
Wyle, John	Akron
Young, Randall Blair	Akron

Total, 70—8 Men, 62 Women

REGISTER

IRREGULAR

Cranz, Inez Shipman	Akron
Roetzel, Ruth Louise	Akron
Rader, John F.	Akron
Shafer, Elsa K.	Akron
Shafer, Ralph	Akron
Total, 5—2 Men, 3 Women	

SPECIAL

Sirdefield, Myrtle M.	Akron
Smigel, Esther Berson	Akron
Total, 2 Women	

SUMMARY OF STUDENTS IN DAY CLASSES

BUCHTEL COLLEGE OF LIBERAL ARTS

	Men	Women	Total
Graduate Students	7	3	10
Seniors	30	23	53
Juniors	52	42	94
Sophomores	61	37	98
Freshmen	147	62	209
Irregulars	9	6	15
Specials	8	6	14
	314	179	493

COLLEGE OF ENGINEERING AND COMMERCE

	Men	Women	Total
Seniors	22		22
Juniors	23	1	24
Pre-Juniors	26		26
Sophomores	65	8	73
Freshmen	91	6	97
Irregulars	11	2	13
Specials	17		17
	255	17	272

Engineering Students 173; Commerce Students 99.

CURTIS SCHOOL OF HOME ECONOMICS

	Men	Women	Total
Graduate Students		1	1
Seniors		6	6
Juniors		14	14
Sophomores		14	14
Freshmen		19	19
Irregulars		2	2
Specials		2	2
	58	58	58

TEACHERS COLLEGE

	Men	Women	Total
Graduate Students	1	18	19
Seniors	3	6	9
Juniors	8	39	47
Sophomores	2	34	36
Freshmen	8	62	70
Irregulars	2	3	5
Specials		2	2
	24	164	188

EVENING SESSION

Abendshine, Irene
 Agniel, Rosamond
 Albrecht, Althea F.
 Albright, Raymond Wm.
 Alexander, Rosanna B.
 Allen, Marguerite Place
 Allen, Margaret J.
 Allman, Lillian M.
 Alton, Alpha
 Amos, Jennie
 Anderson, Bertha May
 Andres, Bertha
 Arbogast, Doris
 Arbuckle, Geraldine E.
 Arenson, Anne
 Arenson, Bertha
 Atkinson, Edna F.
 Auld, James H.
 Aultman, Garnet M.
 Averell, Helen F.
 Auten, Emery C.
 Bachmann, Anthony G.
 Bachtel, Alfred
 Baldwin, Elizabeth G.
 Ballard, Bess I.
 Ballard, Florence M.
 Banner, Edgar H.
 Barber, Adelaide Mildred
 Barber, Maley Y.
 Barber, Mabel
 Barker, Clara
 Barker, Laura B.
 Barnes, Raymond H.
 Barnett, Samuel A.
 Baskin, Fern Spellman
 Batchelder, Anna M.
 Batchelor, Grace Iola
 Baughin, Maude
 Baumgardner, Mrs. Irene
 Baxter, Bertha E.
 Bé, Arthur C.
 Beck, Emma E.
 Beckman, Stanley A.
 Beebe, Olive Phillips
 Beery, Lawrence
 Belden, Don Alexander
 Belenky, Miriam
 Bell, Catharine
 Bender, Leo Henry
 Berry, Forrest W.
 Berry, James
 Bess, Florine Elizabeth
 Betson, Emma
 Beverley, Mase D.
 Bey, Albert P.
 Bicksler, Charles Wm.
 Bishop, Walter
 Blackburn, Alene
 Bloom, Hanna E.
 Bochringer, Carl W.
 Bochstahler, Cora V.
 Bodle, Virgil H.
 Bohl, Ray Anderson
 Boland, Neely
 Bolanz, Margaret
 Bolingbroke, George Thomas
 Bonazzi, Mrs. Amelia A.
 Bonazzi, Edward
 Botzum, Lida A.
 Botzum, Mary Deloras
 Bougham, Arthur B.
 Bowden, Mabelle E.
 Bowdle, Charles P.
 Bowen, Achsah
 Bower, Orpha
 Bowling, W. D.
 Boylan, Dorothy M.
 Boylston, Isabelle R.
 Bradley, Francis E.
 Bradley, Ruth J.
 Brady, Blanche Mrs.
 Braley, Eloise York
 Braley, Geraldine V.
 Braley, Marguerite S.
 Brecht, Ethel L.
 Brenner, Bertha B.
 Brenner, Cathryn Marie
 Brenner, Christy
 Brenner, Howard
 Brewbaker, Chas. E.
 Brewer, Belle B.
 Bricker, Frances B.
 Britton, Carl T.
 Broach, Emma
 Broadhurst, Amy Florence
 Brogan, Margaret
 Brown, Bertha
 Brown, Katherine
 Brown, Ross C.
 Bruederlein, Rilla M.
 Bueso, Angela
 Bueso, Zelmira
 Bulette, C. E.
 Bumgarner, Earl R.
 Bunker, Kenneth Chandler
 Bunn, Arthur Frank
 Bunts, Helen
 Burgoon, Frances Mrs.
 Burkhart, Mrs. Nellie K.
 Burns, Warren L.
 Burns, Mildred M.
 Burrell, Esther Shooley
 Businell, Nellie
 Butcher, James Phillip
 Butler, Arthur S.
 Butler, Horace W.
 Buzzard, Daniel R.
 Cable, Rena Nancy
 Cadden, Chas. C.
 Cain, Lucy Pearl
 Caldwell, Emma Viola
 Caldwell, John Erle
 Callin, Margarette E.
 Callow, Harriet T.
 Calnon, Irene
 Calnon, Catherine
 Calvin, Ruth
 Camehl, Ruth Marie
 Camp, Elizabeth
 Cannon, Emma B.
 Carr, J. Edwin
 Carrick, Carrie E.
 Carter, George S.
 Carson, Howard Benton
 Casselberry, Mrs. Jewel J.
 Caswall, Katherine B.
 Caudill, Hattie
 Caves, Earl L.

Caves, Myrtle L.
 Cervenka, Edith
 Chalfant, Anna Belle
 Chalfant, Gladys D.
 Chapel, Ruth Eileen
 Chapman, Myron E.
 Cherryholmes, Rosilyn M.
 Chestnutt, Valette
 Christenson, Lillian Francis
 Clapper, Lucille Martha
 Clark, Gertrude
 Clark, Merry
 Clark, Lester James
 Clement, Genevieve G.
 Clemenson, E. M.
 Cohen, Zelda
 Cochran, Gladys M.
 Coleman, Grace G.
 Coleman, Helen Louise
 Collier, Alta Mrs.
 Conklin, Hilda
 Conklin, Mattie V.
 Cooper, Benjamin
 Cope, Earl D.
 Corl, Minnie E.
 Corman, Fannie
 Cox, Esther W.
 Cox, Richard Graves
 Cozad, Edna May
 Craft, Angus C.
 Craft, Ira B.
 Cralley, John Vinson
 Cramer, Edna
 Crane, Dorothy M.
 Cranz, Inez S.
 Cratty, E. Stella
 Crawford, M. Lee
 Cray, Edith Grace
 Crile, Ford S.
 Crispin, Frederica
 Critchfield, Lulu
 Croft, Nellie E.
 Cross, Roy H.
 Crowe, Bertha DeCora
 Crowley, Clare
 Cullum, Weltha
 Culp, Vernon S.
 Culver, Marion
 Cummins, Jane M.
 Curfman, Bessie Fay
 Curry, Herbert L.
 Curtis, George H.
 Curtis, John
 Outler, Thomas Edward
 Daily, Arthur D.
 Daily, Helen E.
 Dailly, William B.
 Dales, Lotta E.
 Dambach, Mary E.
 Danforth, Florence Marguerite
 Darragh, Charlotte S.
 Darrab, Helen J.
 Darrow, Eleanor
 Davison, Mrs. Helen
 Davies, Carrie L.
 Davis, Anna E.
 Davis, Esther Ruth
 Davis, Margaret Ann
 Davis, Samuel A.
 Davidson, Agnes I.
 Davison, Earl W.
 Davison, M. Lucille
 Dawson, Ruth Florence
 Day, Gertrude Ethel
 Dean, Mrs. Anna H.
 Dean, Grace L.
 Denison, Doris Lucile
 Denison, Mildred
 Denning, Murl
 Derer, Gustav
 Derrig, Dorothea
 DeSure, Edward
 Dewar, Eliza J.
 DeWitt, Frank A.
 DeWitt, Grace
 Dickinson, Elizabeth G.
 Dickson, Mrs. Zula Van Horn
 Dillehay, Albert J.
 Diller, Goldie M.
 Diller, M. Hale
 Dimmette, Celia M. Mrs.
 Dimmette, Chas. L.
 Dingleline, Lewis C.
 Dineen, Mabel A.
 Dittimore, James A.
 Dixon, Mayme Bingham
 Donaldson, Clara R.
 Doneghue, Guy R.
 Dorman, Mrs. May L.
 Dowell, Albert
 Drevdahl, Conrad G.
 Driscoll, Kathryn
 Driscoll, Marcella
 Drury, E. Faye
 Duffield, Wilma
 Duffy, M. Elizabeth
 Dumbeck, Florence Magdalen
 Duncan, Elsie B.
 Duncan, Samuel G.
 Duncley, Sarah
 Dungan, Laura
 Dunn, Mrs. Elizabeth
 Dunn, Emma
 DuPratt, Leon F.
 Dutt, Ruth E.
 Dyke, Minor Bowles
 Easton, James Archer
 Ebbert, Helen K.
 Eberhard, Theodore
 Eberly, J. Clyde
 Eberts, John J.
 Eckert, Clara O.
 Ecrement, Lloyd LeRoy
 Egbert, D. Charles
 Ehrhardt, Florence
 Ekelberry, Lucy M.
 Eller, Mrs. E. E.
 Eller, E. E.
 Elliott, Sara E.
 Elmore, James Richard
 Emde, John M.
 Emde, Laure Hines Mrs.
 Epler, Frances
 Ervin, Berchal
 Ervin, Bertha
 Ervin, Lillian Gertrude
 Esch, Orril M.
 Esch, I. Lynd
 Estes, David I.
 Eulitt, Roy
 Eyler, Mrs. Florence J.
 Fackler, Mary
 Fairchild, Walter
 Falor, Alice Josaphine

Fargo, Walter D.
 Farlin, Mary Elizabeth
 Farr, Alvira
 Fasnacht, Mary Christina
 Fayerweather, Nellie S.
 Feeley, Chas. Anthony
 Feeley, Frances Hershey
 Feldhaus, Hilda Martha
 Felton, Harold R.
 Fenton, Mabel A.
 Ferguson, Mrs. H. A.
 Ferguson, Mildred
 Fernsner, Hazel M.
 Fetzer, Goldie
 Fickes, Karl
 Fiegly, Alice
 Fields, J. Emory
 Fiers, Norma Pearl
 Filing, Peter
 Finney, Carolyn
 Finney, Florence
 Firestone, Sander Daniel
 Firick, Florence L.
 Fisher, Nellie Dillah
 Fisher, Perry Niles
 Fitzpatrick, Julia A.
 Flanigan, Mary Virginia
 Flint, Anna
 Flint, Eldora
 Flint, Roy M.
 Flower, Maude E.
 Ford, Lou P.
 Forrest, Charles Earl
 Forsyth, Eleanor N.
 Foster, Mary Ozetta
 Fouse, R. L.
 Fowler, Ora
 Fox, Amelia
 Fox, DeEtte
 Franklin, Muriel
 Franzen, M. M.
 Franzen, P. J.
 Frase, Alice
 Frase, Mabel
 Frase, Ralph L.
 Frater, Lula L. Mrs.
 Freas, Nina Mae
 Freeder, Arthur
 French, Josephine Barber
 French, Ralph Waldo
 Fresse, A. Lawrence
 Froebe, J. A.
 Frost, Alma V.
 Frost, Mareta Lyon
 Fuchs, Frits
 Fuller, Mary Finney
 Fuller, May L.
 Garbett, Evelyn
 Gardner, Ethel M.
 Garrett, Guy L.
 Garver, Earl F.
 Garver, O. Lester
 Genheimer, Anna
 George, Blanche
 Gerson, James
 Gessler, Olive M.
 Gibbs, Frances M.
 Gilgen, Anna
 Gilschirst, Ida Jane
 Gilliland, Mai Adline
 Gints, Lorris
 Goux, Rachel Mayo
 Glasgow, Minnie Eva
 Glass, Violet Elizabeth
 Glass, William John
 Glassmeyer, Homer Holland
 Goff, Arthur H.
 Gonder, Evelyn Margie
 Gordon, Harold J.
 Gordon, Julia
 Gorman, Gertrude M.
 Gracey, Frank Boyd
 Graham, Luella
 Graham, Wilda Tedrick
 Graves, Olive
 Green, Alice Lacy
 Green, Alice Lucy
 Gregory, Sister Marie (Lemmer)
 Gribble, Helen M.
 Griffin, Carl M.
 Griffith, Mrs. Helen E.
 Griffith, P. C.
 Grigsby, Myrtle E.
 Gross, James
 Gudikunst, Earl G.
 Gustafson, Elmer
 Haas, Harold G.
 Haddfield, Russell
 Haefele, Pluma
 Haefele, Ruth L.
 Hall, Mrs. Beulah B.
 Hall, Chas. P. Mrs.
 Hall, Marjorie E.
 Hall, Robert Parke
 Hallinan, Dorothy Grace
 Halsey, Ray
 Hammar, Mary F. Mrs.
 Hancock, Helen
 Hanks, Jessie M.
 Hanson, Arthur Shalin
 Hanson, Jennie M.
 Harding, Geo. L.
 Hart, Mrs. M.
 Harney, J. Joseph
 Harpham, Helen M.
 Harris, Cassie
 Harris, Mary Louise
 Hart, Ann
 Hart, Lois
 Hartnett, Mary L.
 Haskins, Delphine Inez
 Hatfield, Gertrude
 Hauck, Laura N.
 Hausgen, Katherine
 Hawk, Gladys Maurea
 Hawthorne, Elizabeth
 Hawthorne, Frances L.
 Haymaker, Nellie B.
 Hays, Joe D.
 Heaton, Samuel Beldon
 Heid, Marie Hildreth
 Heilman, Loretta
 Heim, Gladys Fern
 Heinzman, Blanche P. Mrs.
 Heinzman, L. F.
 Heiss, Bertha Helena
 Heiz, Lee
 Henault, Leon G.
 Hendershot, Mrs. Belle B.
 Hendershot, Heloise
 Henegan, Tracy D.
 Hennigan, Catherine
 Henry, Ida
 Henson, James McDuffy

Hermann, Anthony Joseph
 Herron, Lynn Jay
 Herron, Mabel
 Heskett, Harrison A.
 Heyburr, George W.
 Herman, L. Marguerite
 Hewlett, Lucille
 Heyer, Lilly
 Hiatt, Harold Andrew
 Hibbard, Mary Oraz
 Higgins, Cecelia K.
 Hilbish, Charles E.
 Hill, Alma Fay
 Hill, Alverta
 Hill, Anna L.
 Hill, Clarence F.
 Hine, Mary Frances
 Hinkle, Elmer George
 Hinsdale, Josephine
 Hinton, James Melbourne
 Hipkins, Harriet Spalding
 Hobson, Virginia S.
 Hodges, Dorothy
 Hoehne, Hildegarda
 Hoffman, George
 Hoffman, Leila Elliott
 Hoffman, Lela Esther
 Hoffman, Lorin J.
 Hoffman, M. L.
 Hofstetler, Dennis Roy
 Holcomb, Ruby May
 Holderbaum, Florence M.
 Holt, Paul W.
 Holterman, Virgil
 Home, Warren M.
 Home, F. Donald
 Honeywell, Nina
 Hoover, Flora G.
 Hoover, Frances
 Horning, Roy M.
 Hosfield, George W.
 Hosler, Mary
 Hough, Cynthia M.
 Houk, Edgar M.
 Householder, Bess
 Houser, Mildred F.
 Houston, Esther
 Hovey, Nelson
 Howard, Harry C.
 Howbridge, Ruth A.
 Howe, Warren
 Huffman, Kenneth R.
 Hugg, Matilda G.
 Hughes, Thomas Milton
 Hull, Cleo
 Hummel, Barbara E.
 Hummel, E. Harvey Jr.
 Humphrey, Clarence M.
 Hunsicker, Stephen G.
 Hurlless, Frank H.
 Huston, F. C.
 Ingram, Clyde O.
 Ion, Grace E.
 Irish, Clayton K.
 Irish, Ralph S.
 Irvine, Alice
 Irwin, William J.
 Isaacson, Clifford Walter
 Iseman, Alfred Leroy
 Javins, William McKinley
 Jellison, Horace M.
 Jenkins, Verlin P.
 Kilburn, C. Ruth
 King, Charles
 King, Harold N.
 Kinnan, Andrew J.
 Kinnan, Lillian M.
 Kiracofe, Ira, James
 Kirk, Mary Mabel
 Kitchen, Lejje
 Kittredge, Anne Lois
 Klein, Anna M.
 Kline, Cecil E.
 Knowles, Ora H.
 Knutson, Beth F.
 Kondritzer, Belle
 Koontz, Esther
 Koontz, Mary Edna
 Kopf, William Henry
 Koplin, Nathan
 Krager, Lillian G.
 Kraus, Luise
 Kreiselman, Benjamin
 Kronk, Mae
 Kubach, Florence Marie
 Kunkel, Goldo
 Kuntz, Albert Donald
 Kuntzleman, Roy A.
 Lais, Mary Ruth
 Lane, Gilbert F.
 Lane, Inez Foutts
 Lang, Esther
 Lang, Mrs. Alma
 Langer, Mrs. Harriet T.
 Larson, Antoinette
 Lauer, Bernice W.
 Lauer, Martin P.
 Laughlin, James Eugene
 Lawler, Ellen
 Laxton, Oliver Lee
 Leathers, Alice C.
 Leay, James L.
 Jett, Matilda Mrs.
 Jewell, Elsie Howard
 Johnson, Helen
 Johnston, L. B.
 Johnston, Mrs. D. G.
 Johnston, Elizabeth D.
 Johnston, Linton B.
 Jones, T. Daniel
 Jones, Edna
 Jones, Harriet M.
 Jones, H. Raymond
 Jones, Robert B.
 Joy, Laura Ellen
 Kanagy, Celia M.
 Kater, Minnie Anna
 Kauffman, Charles E.
 Keck, Isa
 Keck, Olive
 Keenan, James L.
 Keenan, Rhoda Broughton
 Keeney, Harriette W.
 Keifer, Ruth L.
 Kelley, Lawrence Verner
 Kelly, Helen
 Kempel, Florence
 Kempel, Frieda M.
 Kempel, Caroline B.
 Kennedy, Esther Theresa
 Kennedy, Isabel
 Kern, Irvin Earl
 Kerns, Elinor
 Kieferle, Albert C.

LeBlanc, Anne Hartie
 Leeper, Laura A.
 LeFevre, Al. S.
 Lehr, Ruth
 Leib, Myrtle C.
 Lemmler, Hazel
 Lemmer, Mrs. Augusta
 Leonard, Dean B.
 Lester, Jane L.
 Lewis, Bertram B.
 Lewis, Graham H.
 Lewis, Lucy A.
 Lichten, Phyllis
 Liedholm, Gustaf
 Lieuellen, Armetha
 Lillie, Edw. P.
 Lilliedale, Mrs. Juanita
 Limbach, Daphne
 Lind, Esther Mildred
 Lind, Frances C.
 Littell, Audrey C.
 Little, C. B.
 Livingston, Leonard C.
 Llewellyn, Doris L.
 Lockhart, Margaret Mrs.
 Long, Nell Brown
 Lonsbury, Mildred Ruth
 Loughry, Chas. H.
 Love, Neva C.
 Love, Arthur Albert
 Lowe, Eldreda Brash Mrs.
 Lowenthal, Otto E.
 Lower, Daisy F.
 Lucas, Marie
 Ludwig, May Elizabeth
 Lumpe, Audrey
 Lyman, Louis
 Lynch, Daniel J.
 McAcy, Helen K.
 McArtor, Alice
 McAuliffe, Alice
 McBride, Mrs. Betty Kirby
 McCance, Jessie
 McCardle, Florence Mrs.
 McCarthy, Mary
 McChesney, John M.
 McCormick, Mary E.
 McCoy, Carrie
 McCoy, F. L.
 McCullough, Beulah
 McCullough, Carmetta M.
 McDonald, Rose Ellen
 McDonnell, Emma C.
 McDonough, Pearl
 McDowell, Alta M.
 McDowell, Anna E.
 McDowell, Kelton W.
 McElhiney, Mary L.
 McFadden, Marion B.
 McGuire, Katherine
 McIluff, Celice C.
 McIntosh, Hazel
 McIntosh, John
 McKee, Merrill Chauncey
 McKeen, Bernice A.
 McKnail, Stella
 McMahon, Mary
 McMillen, Frank J.
 McNeil, Lois A.
 McNeil, Ruth C.
 McQuie, Fannie
 MacDonald, Belle A.
 MacSweeney, Lucille
 Mace, Mabel B.
 Mackay, Isabella Catherine
 Macon, Anita L.
 Maier, Bertha L.
 Mallory, Gerald DeWitt
 Mammerer, W. C.
 March, Mabel M.
 Marinello, Angelo
 Markey, Anthony M.
 Markey, Clarice Houston
 Markie, Earl M.
 Marsh, Dorothy Lillian
 Marshall, Cecile
 Martin, John
 Martin, Beatrice
 Martin, Lillian Evans
 Martin, Rose
 Martin, Westley
 Mason, Margaret Creighton
 Mason, Ruth E.
 Masteller, Orlo
 Mearig, John Frederick
 Meier, Ruth
 Mertinovich, John
 Metz, John Robert
 Michael, Pauline
 Miller, Betty
 Miller, Cana R.
 Miller, Chattie Elinor
 Miller, Frank B.
 Miller, Gertrude Elizabeth
 Miller, Helen A.
 Miller, John Earle
 Miller, Lester H.
 Miller, Pearl May
 Miller, Rolland Snyder
 Miller, B. Sidney
 Mills, Kathleen
 Mills, Marian F.
 Mills, Julia Mrs.
 Minnick, Helen A.
 Mitchell, Emma S.
 Mitchell, William Emmett
 Moats, Russel E.
 Moeller, Eleanor
 Moeller, Zella Ruth
 Moffit, Mrs. W. M.
 Moloney, Anna F.
 Mong, Elizabeth Rosalia
 Mong, Rebecca Jane
 Montgomery, Chas. Earl
 Moodie, Hilda
 Moody, Alta M.
 Mooney, Adelbert W.
 Mooney, Sara M.
 Moore, Alice
 Moore, Christian
 Moore, Florence
 Moore, Maude Eunice
 Moore, Lena
 Moore, Mary M.
 Moore, Ralph Blaine
 Moore, Ruth I.
 Morgan, R. V.
 Morgan, Mrs. D. H.
 Morgan, Herbert W.
 Morris, Cecelia K.
 Morris, Harry L.
 Morris, Vera I.
 Morrison, Janet
 Morrow, Anna L.

Moses, Irene M.
 Mosher, Harold F.
 Motherly, Mrs. Marian W.
 Motz, Caroline
 Moul, S. B.
 Muir, Jessie Annette
 Munnell, Mrs. Clara
 Murray, Helene C.
 Musson, Dwight N.
 Myers, E. F.
 Myers, Jack Austin
 Myers, John W.
 Myers, Mary E.
 Myers, Paul Ivon
 Myers, Ralph J.
 Myers, Ruth M.
 Myers, Ruth
 Naugle, Jacob Vivian
 Naumer, Lora Irene
 Naumer, Louise C.
 Naylor, Grace
 Neag, Demetrius
 Neal, Edith
 Neff, Louis T.
 Neiswanger, Ruth E.
 Nelson, Hulda A.
 Nemcik, Mary V.
 Nestor, Dagmar
 Newbauer, Mareta
 Newhart, Charles
 Newman, Arthur Paul
 Newman, Leo D.
 Newman, Minnie A.
 Nichols, Mrs. Martha Q.
 Nicodemus, Hazel F.
 Niehaus, W. E.
 Noakes, Levi O.
 Norman, Myrtle L.
 Norman, Vivian
 Northy, Gertrude Morgan
 Norton, Bess
 Notter, Helen Dorothy
 Nottingham, Margaret
 Nye, Norman H.
 Oatley, Pauline M. Mrs.
 O'Brien, Robert T.
 O'Connor, Brendan S.
 O'Connor, Evelyn R.
 O'Day, Lenora
 Odom, Young S.
 Olds, E. Phelps
 Olin, Grace G.
 Olin, Jessie L.
 Olin, Lucretia M.
 Overman, Carl M.
 Owen, Glenn W.
 Owens, Robert Hall
 Pack, Isabel K.
 Pack, Mabel
 Packer, Celia
 Painter, George Lester
 Pairan, Paul E.
 Palmer, Helen B.
 Palmer, Marian Inez
 Park, Charles R.
 Parker, Anna F.
 Parker, Fern
 Parker, Marilla
 Parshall, Inez
 Partlow, Harry Charles
 Patko, James
 Patterson, Viola A.
 Patton, Sadie
 Patton, Minnie M.
 Pearce, Gertrude
 Pease, Blanche M.
 Peery, Lula Howard
 Pemberton, Letha Z.
 Pemberton, Lucy
 Perry, Orr L.
 Perry, Elsie
 Perry, Rose A.
 Peters, Elizabeth H.
 Peters, Mary Agnes
 Peterson, Eva Marie
 Peterson, Helga
 Peterson, Margaret
 Petersen, Martin
 Pfeifle, Bessie
 Phelps, Alice Mildred
 Phelps, Mary W.
 Phillips, Grace
 Phillips, Olive Virginia
 Pielh, H. O.
 Pierce, Ethel M.
 Pike, Kenneth
 Piper, Bertha
 Pittenger, John M.
 Plane, Mary Margaret
 Pleasants, Elizabeth K.
 Poe, Helen F.
 Points, Florence
 Polk, Elizabeth W.
 Pomeroy, Norman
 Poole, Mrs Irene T.
 Porter, Albert O.
 Porter, Florence C. Mrs.
 Post, Nellie B.
 Potschner, Stella L.
 Powell, Laura
 Pressler, Wm. F.
 Pribble, John A.
 Prior, Margaret M.
 Proehl, Florence B.
 Purdy, John F.
 Purdy, Lottie M.
 Purdy, Nellie
 Purdy, Ruth D.
 Putnam, Grace Miller
 Pyers, Ben F.
 Pyers, Bessie
 Quaintance, Elsie I.
 Ranck, Sadie C.
 Randall, Merrill R.
 Randall, Nora E.
 Randolph, Louise
 Rasor, Gladys
 Rauschenberger, Fred M.
 Rawdon, Elmer E.
 Rawdon, Helen Marion
 Ream, Mrs. Madeleine A.
 Ream, William James
 Rector, Wm. H.
 Redinger, M. Elizabeth
 Redinger, Mary E.
 Reed, Edith
 Reed, Hazel
 Reel, Bertha G.
 Reilly, Emeline
 Remmy, Grace M.
 Rentschler, Beatrice D.
 Rentschler, Wm. W.
 Rentschler, Ruby D.

Repa, Michael
 Replogle, Mrs. Helen Saeger
 Rial, Edna J.
 Rich, Carl A.
 Richardson, Grace
 Richardson, Newton C.
 Richert, Zelina
 Eiel, Walter Raymond
 Rinehart, Margaret S.
 Rist, Clyde S.
 Ritchie, Harry Elder
 Ritari, Emma
 Ritter, J. Margaret
 Robbins, Ruth R.
 Robinson, Margaret Mrs.
 Robinson, Wilma Elizabeth
 Rockwell, Bennett M.
 Roberts, Bertha P.
 Rockwell Herbert C.
 Rodda, Herbert
 Rohner, Caroline
 Romig, Lucretia Blanche
 Rook, Margaret L.
 Roser, Ralph Marlowe
 Ross, Mary
 Roth, Louise A.
 Roush, Floris C.
 Rovin, Freda E.
 Rowe, Frederick L.
 Royer, Madalene
 Ruch, Elden
 Ruch, Ray W.
 Ruff, Nelle
 Rumsey, Rebecca
 Russell, Mrs. Effie
 Ryan, Margaret Mary
 Ryan, Ethyl B.
 Rylander, Martha O.
 Saal, Kathryn C.
 Salber, Olive Mary
 Sanders, Hattie L.
 Sanders, Sara Shively
 Sanderson, Margaret
 Sanford, Margaret
 Santom, Baldwin
 Santom, Laurel B.
 Santrock, Nora
 Sapp, Bertha Mrs.
 Sapp, Celia
 Saunders, Ellen G.
 Schaefer, Mrs. Grace
 Schaible, Helen Barbara
 Scherbarth, Ruth Irene
 Schlagenhaut, W. H.
 Schmehl, Irma
 Schmieg, Gertrude M.
 Schneider, Charles M.
 Schneider, Henry
 Schoner, Ruth
 Schrank, Harry P.
 Schutz, Dorothy
 Schwab, H. A.
 Schwem, Mabel H.
 Schwedeman, Agnes
 Schwinn, Edward A.
 Scollard, Margaret
 Scott, Ruth S.
 Seay, F. L.
 Seever, F. Katherine
 Seibel, Kathryn
 Seiders, Edith R.
 Seindler, Clara Elizabeth
 Sellers, Orval E.
 Sellers, Samuel
 Serfass, A. M.
 Sewell, M. Elnora
 Seymour, Ruth W.
 Shade, Mrs. Elta
 Shaeffer, Clifton R.
 Shafer, Elsa K. Mrs.
 Shafer, Ralph N.
 Shafer, John M.
 Shannon, Mrs. Lulu S.
 Sharpa, Nelle C.
 Shaw, Dexter Nichols
 Shaw, Margaret Irene
 Sherbondy, Arthur L.
 Sherman, Mrs. Louise M.
 Shetler, Eva
 Shetler, Maude M.
 Shibley, Mrs. Eleanor M.
 Shibley, Karl G.
 Shidaker, Hazel
 Shields, Edith Flay
 Shireman, Cora
 Shively, Hayden Wilson
 Shoemaker, F. Carter
 Shook, A Merrill
 Shuler, George A.
 Sillito, Lucile
 Sills, Evelyn
 Simmons, Clarence O.
 Simmons, Floyd L.
 Simpson, Anna
 Singleton, Cales Rupert
 Skelton, Edward C. F.
 Skurkay, Emil G.
 Slater, Allene
 Sloane, James C.
 Smeller, Louis
 Smetts, Adah
 Smith, Ann
 Smith, Charles W.
 Smith, Cora Davis
 Smith, E. D.
 Smith, Evelyn
 Smith, Florence M.
 Smith, Gladys Irene
 Smith, Harry Arthur
 Smith, Jessie Grace
 Smith, Katherine E.
 Smith, Lulu I.
 Smith, Sinclair P.
 Smith, Wave Mrs.
 Snearlina, Albert J.
 Snyder, Anna Ethel
 Snyder, Clark M.
 Snyder, Ella
 Snyder, Nellie Mrs.
 Soderstrom, Ethel C.
 Somers, Carl Wm.
 Sommers, Ralph E.
 Sophrin, Mrs. Mary
 Sourek, Grace Agnes
 South, Hester Pauline
 Spafford, Beryl
 Spengler, Harold Hudson
 Spoerlein, Bertha Eva
 Sprigle, Harold H.
 Springer, Marie Irene

Sprute, Amelia
 Spuller, Minnie J.
 Spuller, Verena H.
 Stafford, Francis
 Stair, Ralph L.
 Stall, Blanche S.
 Staples, Gray Harry
 Starr, Ethel M.
 Stauffer, Harold A.
 Stebbins, Mildred E.
 Steckhan, R. Bertha
 Steckhan, Charlotte E.
 Steigner, Ora
 Stein, Mrs. Elizabeth E. O.
 Steiner, Mae Belle
 Steiner, Mary
 Stephenson, Josephine A.
 Stevens, Paul
 Stevenson, Mrs. Amelia M.
 Stevenson, David Wm. Dr.
 Steward, Ida E.
 Stewart, George H.
 Stillman, Laura T.
 Stingel, Minnie Ruth
 St. John, Bertram
 Stokes, Mary Ellen
 Stokes, W. R.
 Stoner, Frank O.
 Stopher, Ruth
 Storing, Julia H.
 Storts, Adaline M.
 Stotler, Ernest Ray
 Strahan, Marie V.
 Stratton, Joseph B.
 Stratton, Leon C.
 Strottner, L. A.
 Stuck, Clarence R.
 Stump, Kathryn L.
 Stump, Maynard
 Suddelson, Israel
 Sullivan, Edward P.
 Sullivan, John Patrick
 Sullivan, Wm. L.
 Sumner, Elizabeth
 Sutherland, Ida B.
 Sutherland, Sue
 Sutliff, Dorothy
 Swann, Harriet M.
 Swanson, David T.
 Sweet, Naomi
 Switzer, Charles C.
 Switzer, Happy M.
 Tague, Irma R.
 Taillhart, Mrs. H.
 Tait, William M.
 Taney, Sara Ann
 Teeple, Beulah
 Templer, May
 Test, Josiah A.
 Theakston, Angie Mrs.
 Thesing, Joseph F.
 Thierry, James
 Thomas, Eva S.
 Thomas, Harold I.
 Thomas, Jeanette
 Thomas, Pauline
 Thomas, Richard J.
 Thourot, Mary Grace
 Tier, Anna
 Tillock, Miriam J.
 Timmons, Ethel K.
 Todd, Grace A.
 Todd, Mabel E.
 Toland, Ethel
 Toon, Gladys E. T.
 Towne, Ira Julia
 Townsley, Charles H.
 Trainor, Laura Parrish Mrs.
 Trego, John Wm.
 Trew, Bessie Duff
 Trishman, Lawrence E.
 Trottmann, B. G.
 Tucker, James H.
 Turnbull, M. Elizabeth
 Turver, Margaret M.
 Upstill, Helen
 Uppman, Bertha
 Uppman, Nina E.
 Vaising, Anna N.
 Van Aisdale, Helen
 Vandersall, Clara E.
 Vandersall, Ray L.
 Van Hyning, Irene
 Van Hyning, Norman
 Vanouse, Harold W.
 Vaughn, Elizabeth
 Vaughan, Mary Louise
 Veon, Mamie W.
 Vincent, Clarence Hall
 Vinex, Carl F.
 Virna, M. Herman
 Violette, Clarence Wm.
 Vollmer, Helen
 Voris, Marion
 Vorwerck, Albert L.
 Vredenburg, Verena E.
 Wachter, Rose
 Wagoner, Mrs. Ellen
 Wagner, John A.
 Walcott, Fannie
 Waldkirch, Gladys
 Wallace, Martha
 Walsh, Josephine
 Walsh, Mary
 Waltz, Jessie Belle
 Warner, Florentina
 Warnock, James B.
 Warnock, Mrs. Ora
 Warren, Florence E.
 Washburn, Gail
 Watt, Jeannette
 Weaver, Charlotte R.
 Weaver, Dr. Elizabeth M
 Weaver, Homer H.
 Weber, Esther M.
 Weber, George F.
 Webster, Avanelle
 Webster, Elsie
 Weekes, Olive Mae
 Weekes, Robert C. P.
 Weibrenner, Marie
 Weirick, Elmer C.
 Welch, Mariorie
 Wells, Edyth
 Wells, George Fred
 Wells, Walter A.
 Welsh, Mary B.
 Welsh, Tressa
 Welty, Frances
 Wenhart, Hilda
 Wentink, Paul H.
 West, Florence

Westbrook, Besse	Winters, Vella L.
Westfall, Ruth E.	Wise, Mabel
Westland, Betty	Wiseman, Matthew
Whitbeck, Hortense	Whithoef, Dorothy
White, Glenn E.	Wolcott, Mrs. E. S.
White, Marye	Wolfe, R. E.
White, Ruth Etta	Woloch, George
White, Ruth	Woods, Alice O.
Whitfield, Susan	Woods, L. Louise
Whitney, Elizabeth M.	Wood, Winnigene
Whittington, Dorothy	Woodward, Lena May
Wiles, Oleo Bernice	Worcester, Margaret F.
Wilgus, Ward S.	Wright, Bertha C.
Wilkins, Roy Franklin	Wright, Jennie Ruth
Willett, Besse	Wright Louise J.
Williams, Cora E.	Wright, Mrs. May
Williams, Frank Curtis	Wykoff, Edward
Williams, Glenn Allen	Yarnell, Harry B.
Williams, Mrs. Jess C.	Yearick, Warren A.
Williams, Mrs. Margaret	Yonson, Mabel I.
Williams, Norma F.	Young, Grace O. Mrs.
Williams, Victor S.	Young, Hazel Ruth D.
Willson, Earl H.	Young, James W.
Wilson, Benjamin V.	Young, Margaret Elizabeth
Wilson, Ethel L.	Youngblood, Leo F.
Wilson, Grace A.	Zeis, Mrs. Mary
Wilson, M. Maude	Zickefoose, Cecil H.
Wineberg, Edna	Zinkan, Mildred M.
Winemiller, Margaret S.	Zook, David B.
Winter, Rubye D.	Zook, Samuel E.
Total	1199
Students regularly enrolled in University taking evening work—deduct	70
Total in Evening Session	1129

SUMMER SESSION—1923

Agniel, Rosamond	Brown, Emma B.
Aiken, Mary E.	Brown, Ross
Aldridge, Florence	Brumbaugh, John D.
Aldridge, Mary S.	Burrell, Esther Shirley
Alexich, Frank	Buswell, Nellie
Allen, Margaret J.	Carey, Lila
Amos, Jennie	Carpenter, Burnice M.
Anderson, Bertha M.	Cauffield, Doris
Andrus, Kathryn	Clark, Gertrude
Aronson, Anne	Cline, Camilla
Aronson, Bertha	Cowles, Frances A.
Bachmann, Mary A.	Cray, Edith Grace
Bailat, Esther	Daily, Ethie H.
Baker, Edith L.	Davis, Frederick
Barnes, Elizabeth	Davis, Esther Ruth
Barrett, Dorothy	Dawson, Ruth Florence
Bennett, Lee A.	Day, Gertrude Ethel
Berry, Anna	Dean, Anna Holloway
Black, Margaret A.	Deckard, Huldah M.
Blair, Mary Lillian	Decker, Margaret
Bloom, Hanna E.	DeFord, Lester J. (Mrs.)
Bohl, Ray A.	DeFord, Lester J.
Bolanz, Margaret	DeLong, Sue K.
Boss, Mabel	Denison, Mildred
Bowden, Mabelle Edna	Derrig, Dorothea
Braley, Eloise	Detting, Dorothy M.
Braverman, Dora Holub	Diehl, Lottie N.
Bricker, Frances B.	Diller, Goldie M.
Brown, Afadilla Deaver	Dilley, Gilbert

Dimmette, Chas. L.
 Dineen, Mabel
 Donovan, Sadie
 Douthitt, Caroline
 Driscoll, Kathryn
 Duffield, Wilma
 Duncan, Elsie
 Ecrement, Lloyd Leroy
 Egbert, Viola
 Ellis, Anna
 Ellis, Frieda
 Emde, John
 Esch, Orril M.
 Evans, Elva
 Farlin, Mary Elizabeth
 Fasnacht, Mary
 Fish, Lola
 Fitzgerald, Anna
 Fitzgerald, Mary
 Fitzwater, Hattie
 Fletcher, Anna
 Fletcher, Elizabeth
 Flint, Roy
 Fornecker, Helen
 Foster, Mary
 Fouse, Harlan
 Frank, Clara
 Frank, Mary
 Frase, Alice
 Freeder, Arthur
 French, Josephine
 Fricker, Agnes
 Froebe, John
 Fuller, May L.
 Fynn, Robert
 Galleher, Susan
 Garrigues, Alice
 George, Blanche
 Gilchrist, Ida
 Giroux, Rachel
 Gitow, Lillian
 Glass, Violet
 Good, Dorothy
 Gorman, M. Gertrude
 Graham, Luella
 Green, Alice Lacy
 Green, Alice Lucy
 Gribben, H. Clara
 Griffith, Helen E.
 Grim, H. E.
 Grimm, Rhea (Mrs.)
 Gruebele, Mildred
 Haeefe, Ruth
 Hall, Beulah B.
 Hall, Mabel
 Hall, Robert P.
 Hallinan, Dorothy G.
 Hamilton, Helen
 Hamilton, Mary E.
 Hammond, Bessie
 Hancock, Helen
 Hanson, Helen
 Harper, Robert
 Harpster, Mildred
 Harris, Mary
 Hassenfue, Dorothy
 Hassenfue, Marjory
 Hayes, Lois J.
 Hearty, Rose
 Heilman, Loretta
 Heiss, Bertha
 Hewlett, Lucile
 Hickox, Ruth
 Hindmon, Gladys
 Hinman, Martha L.
 Hipkins, Harriet S.
 Hoffman, Leila
 Honeywell, Nina
 Hoover, Frances
 Hosler, Mary
 Houk, John W.
 Houk, Paul W.
 Houser, Mildred
 Huren, Genevieve
 Hurwitz, Simon
 Ion, Grace
 Jackson, Carola M.
 Jellison, Horace
 Jewell, Elsie H.
 Jones, Edna
 Joy, Laura
 Kanagy, Celia M.
 Kearns, Mary M.
 Keck, Olive
 Keifer, Ruth
 Kempel, Ernest J.
 Kime, Bates Stella
 Kniffin, H. A.
 Knight, Lola
 Koontz, Mary
 Krager, Lenore
 Kraus, Emma D.
 Kraus, Rose M.
 Krill, Olive M.
 Kuenzli, Dorothy
 Kunkel, Goldo
 Kuntz, Harry
 Lanigan, Dorothy
 Lee, Walter
 Leighty, Alice
 Lemmler, Hazel
 Leyda, D. D.
 Lizawetsky, Bessie
 Loeb, Edith
 Love, Neva
 Lower, Daisy
 McAcy, Helen
 McArtor, Alice
 McBride, Betty
 McOlurg, Paul T.
 McCobb, H. H.
 McCormick, Mary E.
 McCullough, Carmetta
 McDonough, Pearl
 McDowell, Anna
 McGarvey, Anna
 McIntosh, Hazel
 Marshall, Cecile
 Martin, Lillian
 Martin, Rose
 Mason, Margaret
 Matlack, Caryl
 Mearig, John
 Meier, Ruth
 Milford, Myrtle
 Miller, B. Sidney
 Miller, Elinor
 Miller, Frank B.
 Miller, Harold
 Miller, Rolland
 Moeller, Zella
 Mong, Harold
 Moodie, Hilda

Moore, Ruth I.
 Moorehead, Alta
 Morrison, Janet
 Morrow, Anna
 Morton, Doris
 Myers, Mary Elizabeth
 Naugle, Jacob
 Neuenschwander, Clyde
 Newbauer, Mareta
 Nottingham, Margaret
 O'Day, Lenora
 Olin, Halcyon
 Olmsted, Bernice
 Palmer, Marian
 Palmer, Ruth
 Parker, Marilla
 Paul, Winifred
 Peairs, Laura
 Pees, Mahala
 Peterson, Eva
 Pfeifle, Bessie
 Pfeuger, Robert
 Phelps, Mary
 Pierce, Lois
 Plane, Mary
 Pleasants, Elizabeth
 Porter, Florence C.
 Prior, Margaret
 Purdy, Ruth
 Quirk, Alice
 Rabbe, Glenna M.
 Raison, Malissa
 Rawdon, Helen
 Rea, Lucille
 Reed, Edith
 Rhodes, Ella I.
 Riblett, Lella
 Richard, Alice M.
 Rivkin, Frieda
 Robb, William
 Roberts, Mildred
 Robinson, Bertha
 Rodda, Herbert
 Romig, Lucretia B.
 Root, James
 Roth, Allen
 Rothrock, Mary Jane
 Roush, Floris
 Ryan, Margaret
 Sackrider, Louise
 Sanderson, Margaret
 Saunders, Ellen
 Scherbarth, Ruth
 Scheuerman, Louise
 Schmidt, Bruno
 Schweigl, Emilie
 Schwem, Mabel
 Sellers, Hazel
 Semler, Helen
 Seymour, Ruth
 Shafer, Elsa
 Shafer, Ralph
 Shannon, Lulu
 Shaw, Sadie
 Shecter, Sidney
 Sills, Mrs. Evelyn
 Simcox, Lorna
 Simmons, Floyd
 Simpson, William
 Skinner, Charlotte
 Slater, Ailene
 Smetts, Adah
 Smith, Florence
 Smith, Jessie
 Snelling, Mildred
 Snyder, Corinne
 Snyder, Ella
 Snyder, Ernest
 Solliday, Ferne
 Spencer, Addison D.
 Sperry, Helen A.
 Stanley, Sarah J.
 Stansberry, Ada
 Staver, Radna
 Stein, Elizabeth C.
 Steiner, Mary
 Stevens, Paul
 Storing, Julia
 Sutherland, Sue
 Switzer, Mrs. Happy
 Sykes, Rhoda
 Teuple, Edith
 Thompson, Carrie
 Thompson, Dorothy
 Tier, Anna
 Toland, Ethel
 Tozer, Archie
 Trainor, Mrs. Edward
 Truax, Lillian M.
 Upstill, Helen
 Vaughan, Olive
 Vaughan, Margaret
 Veon, Mamie
 Vincent, Clarence
 Wachter, Rose
 Wahl, Eloise
 Walcott, Fannie
 Walker, Achsah
 Waltz, Alberta
 Waltz, Lois
 Warner, Florentina
 Watt, Jeannette
 White, Isabelle
 White, Ruth
 Wiener, Lester
 Wilcox, Virginia
 Williams, Gladys
 Williams, Iola
 Williams, Norma
 Wilson, B. V. L.
 Wilson, Ella
 Wilson, Ethel
 Wilson, Margaret
 Winer, Sylvia R.
 Winters, Vella
 Witthoef, Dorothy
 Wolcott, Margaret M.
 Young, Lavinia
 Zeis, Mary
 Zerbe, Elizabeth
 Zickefoose, Cecil
 Zinkan, Mildred

Total 333
 (Including 207 students enrolled in Day and
 Evening Sessions 1923-24.)

Students enrolled in the Summer Session of the College of Engineering and Commerce not in attendance during the regular session 1922-23:

Helmkamp, William Edgar Columbia, Mo.
 Clark, Norris P. Akron
Irregular Students—2

SUMMARY OF ALL STUDENTS IN THE UNIVERSITY

	Men	Women	Total
Graduate Students	8	22	30
Seniors	55	35	90
Juniors	83	96	179
Pre-Juniors	26		26
Sophomores	128	93	221
Freshmen	246	149	395
Irregulars	22	13	35
Specials	25	10	35
<hr/>			
Gross Total in Day Classes	593	418	1011
Counted twice	4	3	7
<hr/>			
Net Total	589	415	1004
Total in Evening Session—1129			
(Not including students enrolled in Day Session.)			
Counted on basis that five evening students are equivalent to one full-time student			
			226
Total in Summer Session of 1923—128			
(Not including students enrolled in Day and Evening Sessions 1923-24.)			
Counted on the basis that six summer students are equivalent to one full-time student			
			21
One Extension Class (Teachers College) held off the campus—22			
			4
(Counted on basis of Evening Session.)			
<hr/>			
Total net enrollment, 1923-24			
			1255

DEGREES CONFERRED

Class of 1923

BACHELOR OF ARTS

James R. Andrus	Akron
Dorothy Armstrong	Akron
Alma Elizabeth Betzler	Akron
M. Alene Blackburn	Akron
Clarence James Bliley	Akron
Gladys Estella Chamberlain	Akron
Theodore L. Cook	Akron
Edith Grace Cray	Akron
Anna Eleanor Davis	Akron
Rosalind Gertrude Freedlander	Akron
Robert H. Harper	Wadsworth
Ada Hawk	Akron
Dorothy Jeannette Heller	Akron
Carl Adelbert Hess	Akron
Russell W. Hilbish	Akron
*C. Edward Hoelzer	Akron
Genevieve Louise Huren	Cuyahoga Falls
Everett A. Irish	Akron
*Henry Bernard Johnson	Akron
Sara Florine Keating	Akron
Frank Wolcott Knowlton	Akron
*Don St. Clair Lawrence	Akron
Bessie Lizawetsky	Akron
Edward Cunard McCormick	Akron
Jacob Vivian Naugle	Akron
Nelson W. Porter	Akron
*Carl W. Poulson	Akron
William J. Robb	Akron
Emilie Marie Schweigl	Akron
Dorothy Dell Shank	Akron
Charles Carroll Switzer	Akron
Evelyn Waite	Akron
Arthur Hildreth Warren	Kingston, N. Y.
R. Florence Wooddell	Akron
Florence L. Wozzley	Akron

BACHELOR OF SCIENCE

Anne Arenson	Akron
Alfred Elden Bishop	Akron
William Sanford Cable	Akron
Donald Carlton Darrah	Akron
Sarah Elizabeth Dunckley	Akron
Robert D. Ellis	Akron

*In Combination Arts-Law Course with Western Reserve University.

J. Glenard Harry	Akron
Howard Manly Heckler	Akron
Clarence F. Hill	Akron
Everett A. Irish	Akron
Nellie L. Purdy	Akron
Wilbur Combs Robart	Minerva
Elden Harry Ruch	Akron
Claude LaMonte Shreiner	Barberton
Hollie C. Williams	Wilson, Kansas

CIVIL ENGINEER

Walter Robert Couch	Chauncey
John T. Hoelzer	Akron
Louis Herman Moehr	Akron
Charles Paul Wagner	Marshallville

MECHANICAL ENGINEER

Lorin P. Hoffman	Akron
Arthur Joseph Kalaugher	Akron
Ionel Munteanu	Roumania
Kenneth W. Pike	Ravenna
Henry A. Russ	Wooster

**BACHELOR OF SCIENCE IN MANUFACTURING
PRODUCTION**

Richard G. Cox	Lakewood
Joseph Hubert Heerlein	Corry, Pa.
Courtland L. Hungerford	Akron
Newman Smith	East River, N. Y.
Rudolph Lawrence Teulings	New Haven, Conn.
Clarence Wesley Thorp	Ravenna

**BACHELOR OF SCIENCE IN COMMERCE
AND ADMINISTRATION**

Elmer William Hartzell	Akron
James McNeil Hitchcock	New Rochelle, N. Y.
Carl Paul Leffler	Akron
*Roy W. Wilt	Kenmore

BACHELOR OF SECRETARIAL SCIENCE

Helen Mae Pouchot	Akron
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BACHELOR OF SCIENCE IN HOME ECONOMICS

Bertha Arenson	Akron
Eloise York Braley	Akron
Doris Rachel Cauffield	Akron
Margaret Lydia Garrett	Akron

*In Combination Commerce and Administration-Law Course with Western Reserve University.

Carolyn Louise Hillman	Akron
Frances Alice Hoover	Akron
Olive Keck	Akron
Mildred Thomas	Akron

BACHELOR OF EDUCATION

Kathleen Cleland Carson	Akron
Helen Ardis Everhard	Wadsworth
Malissa Maxine Leland	Akron
Clara E. Vandersall	Kenmore
Anna Margaret Wagner	Akron
Marion Katherine Weaver	Akron

MASTER OF SCIENCE

Rolland David Fox	Akron
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PUBLIC ADDRESSES—1923

- January 12 Mr. Hugh Smith, Principal of North High School
—“Backgrounds of Education.”
- January 18 Professor Charles Baker Wright, Class of '80—
“Buchtel in the Seventies”—Founder's Day.
- February 9 Dean Elizabeth A. Thompson—“European Con-
ditions.”
- February 16 Dean Elizabeth A. Thompson—“Italy.”
- February 23 Dr. J. M. Baxter—“Egypt.”
Colonel Boynton at College of Engineering and
Commerce.
- March 2 Edgar P. Raine—“Alaska.”
- March 16 Dr. W. O. Thompson, President of Ohio State
University—“‘Getting by’ with College
Work.”
- March 23 Frank Yeigh—“Canada.”
- April 20 Dr. W. V. Mallalieu—“Human Values.”
- April 27 J. C. Hedges—“Summit County Farm Bureau.”
- May 11 Professor George L. Hayes—“The Summer
Session.”
- May 18 Dean F. E. Ayer—“History of Co-operative En-
gineering Education.”
- June 20 President Frederick C. Hicks, University of
Cincinnati—“Our Heritage.”
- October 5 Joseph B. Shea, '17, President of the A Asso-
ciation.
- October 19 H. H. Baldensperger—“Better Akron Business
Commission.”
- October 26 Major Gordon Pringle—“Restoration of Library
at Louvain.”
- November 2 George W. Sieber—“College Spirit.”
- November 23 Superintendent Carroll R. Reed—“The Chang-
ing School System.”
- December 7 Rev. O. W. Haulman—“Dependability—Life's
Greatest Asset.”
- December 14 Dean Elizabeth A. Thompson—“Warren G.
Harding.”

PRIZES AND HONORS**THE ASHTON PRIZES**

No Senior Ashton Prize Contest.

Sophomore Ashton Prize Contest, April 6, 1923. First prize was awarded to Mary Elizabeth Saal; second prize to Doris Frank.

Junior Ashton Prize Contest, June 8, 1923. First prize was awarded to Ross C. Brown; second prize to Laurel E. Fletcher.

THE SENIOR ALUMNI PRIZE

The Senior Alumni Prize was awarded to Anna Eleanor Davis.

THE TOMLINSON PRIZES

The Tomlinson Prizes were awarded to the following students: Raymond J. Steel, first prize; James H. Auld, 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 the second cup for 1919-1920 was West High School, for 1920-1921 South High School, for 1921-1922 West High School, and for 1922-1923 South School.

PHI SIGMA ALPHA

The students chosen for membership in Phi Sigma Alpha Fraternity from the senior class of 1923 were: Anna Eleanor Davis, Donald Carlton Darrah, Dorothy Jeannette Heller, and J. Vivian Naugle.

From the class of 1922 in accordance with a new ruling: Mary Jane Rothrock, Dorothy Lillian Marsh, and Alice Lacy Green.

HONOR STUDENT

Gladys Estella Chamberlain was an Honor Course student in History during 1923. Her thesis was on "Alsace and Lorraine."

THE ALUMNI ASSOCIATION

of

THE UNIVERSITY OF AKRON

Organized July, 1874

Incorporated October 19, 1899

OFFICERS OF THE ASSOCIATION—1923-1924

President, Joseph B. Hanan, '10Akron
 First Vice-President, Alfred Herberich, '11Akron
 Second Vice-President, Kathryn Miller, '16Akron
 Treasurer, Arden Hardgrove, '11Akron
 Alumni Secretary, Edith G. Gray, '23U. of A.

EXECUTIVE COUNCIL

Joseph B. Hanan, '10 Arden E. Hardgrove, '11
 Dr. Parke R. Kolbe, '01 Mrs. H. E. Simmons, '06
 C. R. Olin, '87 Edith G. Gray, '23

ALUMNI BOARD OF TRUSTEES

Term expiring June, 1924.

Bruce Bierce, '20Cuyahoga Falls
 Irene Willson, '16Pittsburgh, Pa.
 Ray Mertz, '17Akron
 Mrs. Chas. Bulger, '94Madison, Wisc.

Term expiring June, 1925.

Beatrice Sumner, '08Akron
 Verne Read, '10Akron
 Edith Heacock Garrett, '06Akron
 F. S. Goehring, '08Akron

Term expiring June, 1926.

H. E. Simmons, '08U. of A.
 F. Glen Alexander, '14Akron
 Mabel Babcock, '18Akron
 John Kennedy, '18Akron

Annual meeting of the Association after Commencement exercises each year.

Stated meetings of the Alumni Board of Trustees on the Thursday of the week following Commencement week, the third Thursday of November, February, and May.

Executive Council meets on call.

**SUMMARY OF ALUMNI
NUMBER OF GRADUATES**

Men	467
Women	349
<hr/>	
Total	816
Deceased	88

Geographical Distribution

Unknown	13
In California	18
In Canada	2
In China	1
In Colorado	5
In Florida	4
In France	1
In Hawaii	2
In Idaho	4
In Illinois	15
In Indiana	13
In Iowa	2
In Kansas	2
In Maine	1
In Massachusetts	8
In Michigan	12
In Minnesota	1
In Mississippi	2
In Missouri	6
In Montana	1
In Nebraska	1
In North Dakota	1
In New Hampshire	1
In New Jersey	4
In New York	22
In Ohio	537
In Oregon	2
In Pennsylvania	25
In Rhode Island	1
In South America	1
In Tennessee	2
In Texas	3
In Utah	1
Vermont	4
Washington	2
Washington, D. C.	2
.....	3
.....	1
.....	1
.....	1

Occupations of Alumni

Actors	2
Architects	1
Artists	1
Authors	3
Bankers	4
Charity Organization Work	6
Chemists	29
Clergymen	11
Clerical Work	35
Commercial Work	96
Contractors	1
Decorators	1
Dietitians	6
Engineers	36
Farmers	10
Forestry	1
Government Employ	8
Insurance and Real Estate	9
Lawyers	43
Librarians	8
Living at Home	51
Lyceum Bureau Work	1
Manufacturers	4
Married Women	86
Merchants	4
Musicians	4
Newspaper Work	7
Nurses	5
Physicians	18
Promoters	4
Public Service	2
R. R. Agents	1
Salesmen	9
Secretarial Work	14
Students	26
Teachers and Professors	140
Unknown	28

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