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The

# UNIVERSITY OF AKRON

AKRON, OHIO

SEPTEMBER, 1931

GENERAL CATALOG
AND
ANNOUNCEMENTS FOR 1931-32



PUBLISHED BY
THE UNIVERSITY OF AKRON, AKRON, OHIO

IN

# The UNIVERSITY of AKRON

General Catalog and Announcements for 1931-32

PUBLISHED AT AKRON, OHIO, SEPTEMBER, 1931

# TABLE OF CONTENTS

	age
CALENDAR	5
Board of Directors	8
Administrative Officers	8
GENERAL FACULTY AND OFFICERS OF INSTRUCTION	9
COMMITTEES OF THE FACULTY	21
GENERAL INFORMATION	
Foundation	22
Departments	23
Bierce Library	24
Equipment	25
Standards	
Admission	
Entrance Requirements	26
Registration and Classification	27
Psychological Tests	29
EMPLOYMENT AND LIVING CONDITIONS	30
Fees and Expenses	31
Funds, Prizes, Scholarships and Honors	
Loan Funds	36
Prizes	<b>3</b> 6
Scholarships	<b>3</b> 9
Honorary Fraternities	39
Honors Courses	41
General Regulations	42
Physical and Military Training	45
Music	50
BUCHTEL COLLEGE OF LIBERAL ARTS	
Foundation, Incorporators, Presidents	52
Endowments	53
Entrance Requirements	
Courses of Study and Degrees	
Subjects of Instruction	57
Combination Courses	98

# TABLE OF CONTENTS

College of Engineering and Commerce	rage
<del></del>	100
General Information	100
Entrance Requirements Expense—Freshman Year	102
Departments of Instruction	103
Engineers' Work Calendar	105
Engineers' Work Calendar	106
Freshman Courses In Engineering	107
Civil Engineering	108
Flectrical Engineering	. 111
Mechanical Engineering	. 113
Industrial Engineering	. 117
General Course for Engineering Students	. 119
Commerce	. 124
Secretarial Science	135
Teachers College	
General Information	139
Entrance Requirements	. 140
Courses of Study and Degrees	. 140
Student Teaching	. 140
Outlines of Courses	140
Graduate Courses	146
Subjects of Instruction	147
Evening Session	
General Information	169
Admission	. 169
Fees and Expenses	. 171
Student Activities	172
Registration	173
Calendar	. 173
Schedule of Classes	1/4
Buchtel College of Liberal Arts Courses	1/8
College of Engineering and Commerce Courses	109
reachers College Courses	170
Summer Session	
General Information	207
Admission	208
Subjects of Instruction	212
Schedule of Classes	225
Community Co-operation	
Testing Laboratory	226
Testing Laboratory	226
Register of Students	229
SUMMARY OF STUDENTS IN DAY CLASSES	
SUMMARY OF ALL STUDENTS IN THE UNIVERSITY	
Degrees Conferred in 1930	
1930 Assembly Speakers and Entertainers	250
Prizes and Honors Awarded in 1930	
Alumni Association	
Index	. 263

## THE UNIVERSITY OF AKRON

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# UNIVERSITY CALENDAR

# 1931

JANUARY 5, MONDAYClass work resumed in all departments.
JANUARY 12-17, INCLUSIVEClassification for second semester, students in all day sessions except Co-operative Engineering.
JANUARY 16, FRIDAYObservance of Founder's Day (January 18).
JANUARY 26 TO JANUARY 31Final examinations.
JANUARY 29, 30 AND 31Classification for second semester for Co-operative Engineering students (Division B).
JANUARY 30 AND 31Registration and classification of new students FRIDAY, 9 A. M4 P. M. for second semester.  SATURDAY, UNTIL NOON
FEBRUARY 2, MONDAY, 5 P. MRegistration closes for new students except those re-entering or transferring from other colleges.
FEBRUARY 2 AND 3Classification of Division A, Co-operative Engineering students.
FEBRUARY 3, TUESDAYFreshman Program. Last day for payment of fees without penalty of late registration fee.
FEBRUARY 4, WEDNESDAYClass work begins for all day sessions.
FEBRUARY 5, 6, AND 7Registration and classification for Evening Ses- THURSDAY, FRIDAY AND sion. SATURDAY, 9 A. M9 P. M.
FEBRUARY 9, MONDAYClass work begins for Evening Session.
MARCH 28, SATURDAYEaster recess begins. 12:00 Noon
April 6, MondayClass work resumed.
APRIL 13, MONDAYFinal classification of Co-operative Engineering students (Division B).
MAY 29, FRIDAYTree Day.
MAY 30, SATURDAYMemorial Day-a holiday.
JUNE 8-13Final examinations.
Juné 14, SundayBaccalaureate exercises.
JUNE 16, TUESDAYCommencement.

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JUNE 22, MONDAYRegistration and classification for Summer Session in Teachers College and Co-operative Engineering (Division B).
June 23, TuesdayClass work begins in Summer Sessions.
JULY 20, MONDAYClassification for Summer Session in Co-operative Engineering (Division A).
JULY 31, FRIDAYSummer Session in Teachers College closes.
AUGUST 15, SATURDAYSummer Session for Co-operative Engineers closes
AUGUST 17, MONDAYRegistration and classification begins for fall semester for new resident and non-resident students in all departments of the day session.
September 8, TuesdayRegistration and classification closes for new Students, except those transferring from other colleges.
September 8-11, inclusiveFreshman Week, compulsory for all Freshmen entering in September, 1931.
September 11 and 12
September 14, MondayClass work begins in all departments of the Day Session (Division A for Co-operative Engineers).
September 24, 25, and 26Registration and classification for Evening Ses- Thursday, Friday and sion. Saturday, 9 a. m9 p. m.
SEPTEMBER 28, MONDAYClass work begins in Evening Session.
OCTOBER 2, FRIDAYGeneral Student Election.
NOVEMBER 16, MONDAYFinal classification of Co-operative Engineering students (Division B).
NOVEMBER 17, TUESDAYClass work begins for Co-operative Engineering students (Division B).
November 26, 27 and 28Thanksgiving Recess. Thursday, Friday and Saturday
DECEMBER 19, SATURDAYChristmas vacation begins for all departments. AT NOON

# 1932

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JANUARY 4, MONDAYClass work resumed in all departments.
January 11-16, inclusiveClassification for second semester, students in all day sessions except Co-operative Engineering students in Division A.
JANUARY 18, MondayObservance of Founder's Day.
JANUARY 25 to JANUARY 30Final examinations.
JANUARY 28, 29 AND 30
JANUARY 29 AND 30Registration and classification of new students Friday, 9 A. M4 P. M. for second semester.  Saturday, Until Noon
FEBRUARY 1, MONDAY, 5 P. MRegistration closes for new students except those re-entering or transferring from other colleges.
FEBRUARY 1 AND 2Classification of Co-operative Engineering students (Division A).
FEBRUARY 2, TUESDAYFreshman Program. Last day for payment of fees without penalty of late registration fee in day sessions.
FEBRUARY 3, WEDNESDAYClass work begins for all day sessions.
FEBRUARY 4, 5 AND 6
FEBRUARY 8, MONDAYClass work begins for Evening Session.
MARCH 19, SATURDAYEaster recess begins. 12:00 Noon
MARCH 28, MONDAYClass work resumed.
APRIL 11, MONDAYFinal classification of Co-operative Engineering students (Division B).
MAY 27, FRIDAYTree Day.
MAY 30, MONDAYMemorial Day—a holiday.
June 6-11Final examinations.
June 12, SundayBaccalaureate exercises.
June 14, TuesdayCommencement.
JUNE 20, MONDAYRegistration and classification for Summer Session in Teachers College and Co-operative Engineering (Division B).
June 21, TuesdayClass work begins in Summer Sessions.
JULY 18, MONDAYClassification for Summer Session in Co-operative Engineering (Division A).
JULY 29, FRIDAYSummer Session in Teachers College closes.
August 13, SaturdaySummer Session in Co-operative Engineering closes.

# BOARD OF DIRECTORS

BOARD OF BIRECTORS	
J. Grant HydeTerm expires 1932	
B. A. PolskyTerm expires 1932	
John W. ThomasTerm expires 1932	
P. W. LITCHFIELDTerm expires 1934	
George T. Rankin (Died, May, 1931)Term expires 1934	
HURL J. ALBRECHTTerm expires 1934	
CLETUS G. ROETZELTerm expires 1934	
L. E. JudoTerm expires 1936	
Mrs. T. A. ChittendenTerm expires 1936	
James W. SchadeTerm expires 1936	
OFFICERS FOR 1931	
JOHN W. THOMAS	
B. A. Polsky	
C. R. Olin	
COMMITTEES FOR 1931	
Committee on Finance: Polsky, Rankin, Schade.	
Committee on Investment: Hyde, Judd, Mrs. Chittenden.	
Committee on Buildings and Grounds: THOMAS, LITCHFIELD, ROETZEL.	
ADMINISTRATIVE OFFICERS OF THE UNIVERSITY 1930-31	
GEORGE F. ZOOK, PH. DPresident of the University	
CHARLES R. OLIN, M. SSecretary of the University	
MAXWELL P. Boggs, A. B. Assistant Secretary	
GLADYS P. WEEKS	
OSCAR E. OLIN, LL. DVice-President of the Faculty	
ALBERT I. SPANTON, A. MDean of Buchtel College of Liberal Arts	
FRED E. AYER, C. EDean of the College of Engineering and Commerce	
W. J. BANKES, A. MDean of Teachers College	
ELIZABETH A. THOMPSON, A. MDean of Women	
Donfred H. Gardner, A. M	
FREDERICK S. SEFTON, M. Ed	
JOSEPHINE A. CUSHMAN, B. L. S	
LOWELL L. HOLMES, M. ADirector of Evening Session	
LOWELL L. HOLMES, M. A	
,	
U. S. VANCE, A. B	

#### GENERAL INFORMATION

# GENERAL FACULTY AND OFFICERS OF INSTRUCTION 1930-1931

GEORGE FREDERICK ZOOK, President of the University

A. B., A. M., University of Kansas; Ph. D., Cornell University, 1914.

265 Merriman Road

**PROFESSORS** 

JOHN ADENDORFF, Professor of Industrial Engineering M. E., Cornell University, 1907.

346 Union Place

FRED. E. AYER, Dean of the College of Engineering and Commerce 1914—C. E., Lafayette College, 1900.

Tallmadge, Ohio

WALTER J. BANKES, Dean of Teachers College
A. M., Clark University. Graduate study, Clark University, 1914-15.
Portage Point Drive, R. D. Barberton, Ohio

CHARLES BULGER, Hilton Professor of Modern Languages

Ph. B., Buchtel College; A. M., University of Wisconsin, Ph. D., 1925. Nine months at Goettingen and Heidelberg Universities.

74 Mayfield Avenue

Oral Eugene Clark, Professor of Military Science and Tactics
Graduate, Infantry School, Fort Benning, Ga., 1923; The Command and General
Staff School at Fort Leavenworth, Kan., 1929. Major, Infantry, U. S. A. (D. O. L.).
411 Hillwood Drive

EARL WILLIS CRECRAFT, Professor of Political Science
Ph. B., Franklin College; A. M., Columbia University, Ph. D., 1915.
688 East Buchtel Avenue

WILLIAM LLOYD DAVIS, Professor of Economics and Sociology

Ph. B., University of Wisconsin, Ph. D., 1922. Graduate study Harvard University,
1923-24; two six-weeks Summer Sessions at Columbia University, 1926 and 1927.

391 Mell Avenue

FRANCESCO B. DELEONE, Director of Music

M. Mus., Royal Conservatory of Naples; Honorary degree, Dana's College of Music,
Warren, Ohio.

585 Delaware Avenue

Ross C. Durst, Specific of Civil Engineering
B. S. in C. E., Northern University, 1915, C. E., 1922.
1995 Germaine Ave., Cuyahoga Falls, Ohio

WALTER A. GILMOUR, Professor of Co-ordination B. S. in C. E., Norwich University, 1914.

861 Aberdeen Street

FRED S. GRIFFIN, Professor of Mechanical Engineering M. E., Ohio State University, 1911.

157 Marvin Avenue

GEORGE L. HAYES, Professor of Psychology

M. Ed., Edinboro State Normal College; Ph. B., Ohio University; LL. B., Ohio Northern University; A. M., University of Pittsburgh, Ph. D., 1921.

348 North Firestone Blvd.

DONALD HAYWORTH, Professor of Speech
A. B., Grinnell College; A. M., University of Chicago, 1921; Ph. D., University of Wisconsin 1929.

283 East Buchtel Avenue

9

FRED F. HOUSEHOLDER, Professor of Physics B. A., University of Wisconsin, M. A., 1916. Graduate study, Iowa State College, 1917; University of Wisconsin 1916, 1917, 1921; University of Chicago, 1922. 1209 Berwyn Street

JOHN L. Jones, Ainsworth Professor of Mathematics Ph. B., Lafayette College; M. A., Yale University, Ph. D., 1911. 2318 16th Street, Cuyahoga Falls, Ohio

CHARLES M. KNIGHT, Professor Emeritus of Chemistry A. M., Tufts College; Sc. D., Buchtel College, 1897.

583 Weber Avenue

EMERY L. KUHNES, Professor of Education B. S., Upper Iowa University; Pd. M., New York University, Ph. D., 1915. Graduate study, University of Chicago, 1919.

WARREN W. LEIGH, Professor of Commerce and Business Administration B. A., University of Utah; M. B. A., Northwestern University, 1924. Graduate study, Northwestern University, 1924-26, and Summers of 1929 and 1930. 84 Casterton Avenue

ELSIE MAY MAXWELL, Professor of Home Economics B. S., Teachers College, Columbia University; M. A., University of Chicago, 1928.

CHARLES R. OLIN, Secretary of the University B. S., Buchtel College, M. S., 1909.

OSCAR E. OLIN, Messenger Professor of Philosophy, and Vice President of A. M., Kansas State Agricultural College; LL. D., The University of Akron, 1920. 396 East Market Street

RAYMOND B. PEASE, Professor of English B. A. University of Wisconsin; A. M., Harvard University; Ph. D., Wisconsin, 1921; Summer Quarter, 1923, University of Chicago.

AMON B. PLOWMAN, Professor of Biology B. S., Ohio Wesleyan University; A. M., Harvard University, Ph. D., 1905. 596 Greenwood Avenue

FREDERICK S. SEFTON, Professor of Physical Education B. S., Colgate University; M. Ed., Harvard University, 1925. 589 Sunset View Drive

HEZZLETON E. SIMMONS, Buchtel Professor of Chemistry B. S., Buchtel College; M. S., University of Pennsylvania, 1912.

331 Beechwood Drive

ALBERT I. SPANTON, Pierce Professor of English and Dean of Buchtel College of Liberal Arts A. B., Buchtel College; A. M., Harvard University, 1905.

625 Weber Avenue

\*ELIZABETH A. THOMPSON, Professor of History, and Dean of Women A. M., The University of Akron, 1911. 283 East Buchtel Avenue

<sup>‡</sup>Retired June, 1931. \*Deceased March 30, 1931.

JOHN T. WALTHER, Professor of Electrical Engineering B. S. in E. E., University of Michigan, 1909.

384 Reed Avenue

ARTHUR M. YOUNG, Professor of Latin and Greek
A. B., A. M., Harvard University, Ph. D., 1930.
1517 Chestnut Blvd., Cuyahoga Falls, Ohio

#### ASSOCIATE PROFESSOR

CARY C. Wood, Associate Professor of Educational Psychology
B. S., Ohio University; A. M., Columbia University, Ph. D., University of Cincinnati, 1928.

372 Madison Avenue

#### ASSISTANT PROFESSORS

DONALD E. ANTHONY, Assistant Professor of Economics
B. A., Stanford University; M. A., Cornell University; Ph. D., Stanford, 1928.

37 Aqueduct Street

JANE S. BARNHARDT, Assistant Professor of Art B. E., The University of Akron, 1928; M. Ed., 1930.

486 Roslyn Avenue

HARRY A. BENDER, Assistant Professor of Mathematics
A. B., Ohio University; A. M., University of Illinois, Ph. D., 1923.
931 Stadelman Avenue

HOWARD H. BLAIR, Assistant Professor of Physical Education
B. S., Ohio State University, 1923; A. M., Columbia University, 1927.

1416 Delia Avenue

JOHN W. BULGER, Assistant Professor of Civil Engineering B. C. E., Ohio State University, 1918.

368 Sherman Street

WALTER A. COOK, Assistant Professor of Chemistry B. A., University of Cincinnati, M. A., 1922, Ph. D., 1924.

382 East York Street

HARMON O. DEGRAFF, Assistant Professor of Sociology
B. A., M. A., University of Iowa; Ph. D., University of Chicago, 1926.
429 East Buchtel Avenue

ELMER ENDE, Assistant Professor of Organ and Theory of Music

B. Mus., American Conservatory of Music, Chicago, 1915; M. A., Ohio State
University, 1930.

724 Crosby Street

HOWARD R. EVANS, Assistant Professor of Education

A. B., Indiana State Teachers College; M. A., Teachers College, Columbia University; Ph. D., Northwestern University, 1930.

283 East Buchtel Avenue

ROLLAND D. Fox, Assistant Professor of Bacteriology

B. S., The University of Akron, M. S., 1923; Director of the Division of Laboratories, Akron Health Department.

499 Malvern Road

- DONFRED H. GARDNER, Assistant Professor of History, and Dean of Men
  A. B., Princeton University, 1922, A. M., 1923.

  841 Merriman Road
- RUSSELL J. GREENLY, Assistant Professor of Industrial Teacher Training
  B. S., Pennsylvania State College, 1930.

  455 Letchworth Drive
  - 433 December 2011
- LOWELL L. HOLMES, Director of the Evening Session, and Assistant Professor of Commerce and Business Administration
  - S. B. in Engineering Administration, Massachusetts Institute of Technology; M. A. in Economics, University of Pittsburgh, 1930.

    453 Malvern Road
- FLORA J. HOOVER, Assistant Professor of Education

  B. A., Michigan State Normal College, 1920. Graduate study, The University of Akron, 1923-24; Michigan State Normal College, six-weeks Summer Session.

  Taylor Hotel
- WALTER C. KRAATZ, Assistant Professor of Zoology
  B. A., University of Wisconsin; M. A., Ohio State University, Ph. D., 1923.

  957 Mercer Avenue
- HAROLD T. MCKEE, Assistant Professor of Business Administration
  B. S., University of Pittsburgh, M. A., 1929.

  525 Roslyn Avenue
- LEROY C. McNabb, Assistant Professor of Speech, and Director of Dramatics B. S., Lebanon University; B. A., Ohio Wesleyan, M. A., 1925; Cornell University, 1928-30 toward Ph. L.
- MARJORIE MITCHELL, Assistant Professor of English, and Personnel Adviser for Women
  - A. B., Western Reserve University; A. M., Radcliffe College, 1923; six-weeks Summer Session, University of Chicago, 1924; six-weeks Summer Session at Columbia University, 1929, and the year 1929-30.

    157 Casterton Avenue
- LEWIS S. NORMAN, Assistant Professor of Military Science and Tactics
  LL. B., Chattanooga College of Law, 1917. Captain, Infantry, U. S. A. (D. O. L.).
  466 Hillwood Drive
- RUSSELL L. PACKARD, Assistant Professor of Geography

  B. S., B. A., Kent State College; M. A., The University of Akron, 1927; Ph. D.,
  University of Cincinnati, 1930.

  1932 South Front Street, Cuyahoga Falls, Ohio
- KATHARINE M. REED, Assistant Professor of Modern Languages

  B. A., Newcomb College; M. A., Tulane University; six-weeks Columbia University; three months at the Sorbonne, Paris, 1925-26.

  233 North Portage Path
- AIMAR H. ROLLEFSON, Assistant Professor of Physics
  B. A., M. A., University of Wisconsin, Ph. D., 1928; Symposium on Theoretical Physics (eight weeks), University of Michigan, 1929.

  The University Club
- ERNEST F. SCHAEFER, Director of Testing Laboratory, and Assistant Professor of Chemistry
  - B. E. M., Ohio State University.

590 Vinita Avenue

- RICHARD H. SCHMIDT, Assistant Professor of Chemistry, and University Examiner
  - A. B., Wesleyan University; M. A., Columbia University, 1915; graduate study at Columbia, 1915-16 and Summer Session of 1930.

    Liberty Road, Stow, Ohio; P. O., R. D. 3, Kent, Ohio

- SAMUEL SELBY, Assistant Professor of Mathematics

  A. B., University of Manitoba, A. M., 1926; Ph. D., University of Chicago, 1929.

  214 North Portage Path
- ROY V. SHERMAN, Assistant Professor of Political Science
  A. B., State University of Iowa, A. M., 1926, Ph. D., 1927.
  283 East Buchtel Avenue
- RODNEY A. SLAGG, Assistant Professor of Botany
  B. A., University of Wisconsin, M. S., 1924, Ph. D., 1930.

404 Mell Avenue

HARRY A. SMITH, Assistant Professor of Physical Education B. E., The University of Akron, 1928, M. Ed., 1929.

898 Peckham Street

ROBERT E. SWAB, Assistant Professor of Military Science and Tactics
Graduate of Infantry School, Fort Benning, Ga.

567 Aqueduct Street

CLARENCE R. UPP, Assistant Professor of Mechanical Engineering
M. E., Ohio State University, 1910.

888 Oakland Avenue

#### INSTRUCTORS

DAVID E. ANDERSON, Instructor in Chemistry
A. B., Augustana College; M. S., University of Chicago, 1923.

900 Portage Trail, Cuyahoga Falls, Ohio

RENA NANCY CABLE, Instructor in Art

B. E., The University of Akron, 1928; Summer Session of six weeks at Columbia University; Harvard Summer Session, 1930.

473 East Buchtel Avenue

J. GARFIELD CHAPMAN, Part-time Instructor in Violin Director of the Violin Department, The Cleveland School of Music since 1900. 3101 Prospect Avenue, Cleveland, Ohio

Samuel Grant Conner, District Apprentice Co-ordinator in Industrial Teacher Training

B. S., Pennsylvania State College, 1929.

425 Letchworth Drive

BEATRICE S. COUNTS, Instructor in Home Economics

A. B., Ohio Wesleyan; B. S., Simmons College; M. S., Teachers College, Columbia University, 1926.

607 East Buchtel Avenue

Howard M. Doutt, Head of the Department of Secretarial Science, and Parttime Instructor

A. B., The University of Akron, 1930.

1921 Goodyear Blvd.

SARAH E. DUNCKLEY, Director of Physical Education for Women
Graduate, Arnold College of Physical Education and Hygiene, 1915; B. S., The
University of Akron, 1923.

390 Berry Avenue

MAXINE M. Dye, Instructor in Speech
A. B., Penn College, 1927; M. A., University of Wisconsin, 1930.

72 Everett Avenue

MARGARET FLORENCE FANNING, Instructor in Modern Languages

A. B., The University of Akron; A. M., Radcliffe College, 1926; graduate study,
University of Toulouse, France, 1926-27.

1241 Delia Avenue

ELDORA FLINT, Instructor in Secretarial Science B. E., The University of Akron, 1930.

1130 Avon Street

OMER R. FOUTS, Instructor in Physics

A. B., Wittenberg College; A. M., Ohio State University, 1925; Ohio State University, Summer Quarter, 1927; Summer Sessions at the University of Michigan, 1928, 1929 and 1930.

Rose E. Goodman, Instructor in Mathematics

A. B., Otterbein College; A. M., Ohio State University, 1927.

1154 Johnston Street

EUGENE GEORGE HAAS, Instructor in Chemistry

B. S., The University of Akron, 1920; M. S., The University of Toronto, 1922. 25 Franklin Street

MERLIN L. HAYES, Assistant in Biology

B. E., The University of Akron, 1929, A. B., 1930.

348 North Firestone Blvd.

ROSALIND FREEDLANDER IRISH, Instructor in English

B. S., in Home Economics and B. A., The University of Akron; A. M., Columbia University, 1924. 46 Fifth Avenue, Barberton, Ohio

John A. Kelley, Instructor in Modern Languages

B. A., Lawrence College, 1926; M. A., University of Wisconsin, 1927.

275 South Main Street

CLARA M. KEMLER, Director of Kindergarten-Primary Training

A. M., Wittenberg College; Summer Session at University of Chicago, 1928.

DAVID KING, Instructor in Political Science

A. B., Maryville College; A. M., University of Chicago, 1925; University of Chicago, 1926-27 and Summer Sessions of 1928, 1929 and 1930.

Steve Kish, Instructor in Military Science and Tactics

Sergeant, U. S. A. (D. E. M. L.).

1173 East 87th Street, Cleveland, Ohio

ELIZABETH A. LATHROP, Instructor in Home Economics

B. S., Columbia University, 1926, A. M., 1927.

186 South Union Street

Julia Reger Leigh, Instructor in Mathematics

B. A., University of Iowa, M. S., 1926; six-weeks Summer Session at University of Chicago.

WALTER CONRAD LIPPS, Instructor in Physical Education

B. E., The University of Akron, 1928.

528 Brown Street

MISS WILL H. LIPSCOMBE, Instructor in Mathematics

B. S., Florida State College; M. S., Ohio State University, 1926; one Summer Session at the University of Michigan.

996 Dayton Street

CARITA McEbright, Instructor in Speech

A. B., Cornell University, 1887; Emerson College of Oratory, 1895; American Academy of Dramatic Art, New York, six weeks, 1924; Columbia College of Oratory, two four-weeks Summer Sessions on Shakspere with Robert Martell, 1925 and 1926.

396 East Market Street

RUTH K. McPeake, Part-time Instructor in History A. B., The University of Akron, 1928.

715 West Market Street

FRANK J. S. MATURO, Instructor in Spanish

A. B., Mount Union; M. A., Columbia University, 1923; candidate for Ph. D. degree at George Peabody College for Teachers.

355 Firestone Blvd.

HENRY METZGER, Instructor in Military Science and Tactics
Master Sergeant, U. S. A., Retired.

307 Grace Avenue

LUTHER A. PARK, Part-time Instructor in Commerce and Business Administra-

A. B., Roanoke College; A. M., University of Pennsylvania, 1915; Summer Sessions at the University of Michigan and University of Chicago.

889 Fried Street

THEODORE HANFORD POND, Instructor in Art Attended Pratt Institute.

Route 8. Akron, Ohio

RUTH MARGUERITE RAW, Instructor in English

A. B., A. M., Hiram College; A. M., Columbia University, 1924; Summer Sessions at University of Washington, 1927 and 1929.

317 Rhodes Avenue

GENEVIEVE RIDER, Instructor in Public School Music B. M. Ed., Northwestern University, 1925.

135 South Union Street

EDGAR C. ROBERTS, Instructor in English

B. S. in Educ., Ohio State University, M. A., 1924; Summer Sessions at Ohio State University, 1928, 1929 and 1930.

187 Elwood Avenue

Francis J. Sadlier, Director of Glee Clubs, Part-time Instructor in Voice
Metropolitan School of Opera, New York; Certificate, Royal High School of Music,
Berlin, Germany.

1523 East Boulevard, Cleveland, Ohio

RUTH McNeil Sloan, Part-time Instructor in History and Secretarial Science A. B., The University of Akron, 1930.

62 Metlin Avenue

PAUL C. SMITH, Instructor in Electrical Engineering B. S. in E. E., Purdue University, 1917.

179 Ido Avenue

NELSON S. SNYDER, Instructor in Education

A. B., Mount Union College; A. M., The University of Akron, 1927; Summer Session at Ohio State University, 1928.

1214 16th Street, N. W., Canton, Ohio

ELIZABETH D. STEVENSON, Instructor in English

B. A., University of Pittsburgh; M. A., Columbia University, 1929.

105 South Balch Street

CLIFFORD STICKNEY, Instructor in English

B. A., University of Illinois, 1923, M. A., 1928.

Route 4, Akron, Ohio

WILLIAM E. STRASSNER, Part-time Instructor in Band and Voice Round Lake Summer Sessions; Chicago Musical College; Skidmore School of Arts; DeReszki-Seagle School; Director of Thayer Military Band since 1923. 703 4th Street, N. W., Canton, Ohio

AUDRA TENNEY, Part-time Instructor in Secretarial Science, and Secretary to the University Examiner

A. B., The University of Akron, 1926.

754 Glendora Avenue

WARD L. TINKLEPAUGH, Instructor in Commerce and Business Administration B. S. in Bus. Adm., Syracuse University, 1926; graduate study at Syracuse and New York Universities. 275 South Main Street

ULYSSES S. VANCE, Instructor in Journalism, and University Editor A. B., State University of Iowa, 1923.

232 Oakdale Avenue

RALPH M. VAN METRE, Instructor in Business Administration B. S. in Bus. Adm., Ohio State University, 1929.

115 Hamilton Avenue

EARL R. WILSON, Instructor in Engineering Drawing B. M. E., Ohio State University, 1916.

1026 Marion Place

#### LIBRARY STAFF

JOSEPHINE A. CUSHMAN, Librarian

Ph. B., The University of Akron; B. L. S., University of Illinois.

517 Crosby Street

ETHEL S. KLAHRE, Assistant Librarian

A. B., The University of Akron, 1927; B. S. in L. S., Western Reserve University, 1928; graduate study at Columbia University Summer Session in 1929.

881 Berwyn Street

MATILDE LOWERY, Assistant Librarian

B. L. S., Carnegie Library School, Pittsburgh, Pa., 1930.

506 Crosby Street

VIVIEN McCarthy Sutton, Assistant Librarian

Certificate, Tuscarawas County Normal School, 1923; Diploma, Chautauqua School for Librarians, 1927.

180 North Portage Path

NORMA RUTH OLIN, Assistant Librarian

A. B., The University of Akron; B. S. in L. S., Western Reserve University, 1929. 662 Weber Avenue

FRANCES CLARK, Assistant in the Library

1651 Battery B

#### REGISTRAR'S STAFF

GLADYS P. WEEKS, Registrar Two years, The University of Akron.

565 East Buchtel Avenue

EBBA LARSON, Assistant Registrar

655 East Buchtel Avenue

JEANNE COHEN, Assistant Student, The University of Akron.

45 Borton Avenue

#### GENERAL INFORMATION

#### FELLOWS IN CHEMISTRY

ARTHUR W. Dobberstein, B. S., South Dakota State College.

The B. F. Goodrich Company

ROBERT S. McFadden, A. B., University of Denver
The Goodyear Tire and Rubber Company

HAROLD B. MORRIS, B. S., Gettysburg College
The Firestone Tire and Rubber Company

#### ASSISTANTS

FRANCIS HOLMES, Assistant in the Department of Physical Education
1222 Florida Avenue, Kenmore Station

CHARLES LEWIN, Assistant in Testing Laboratory
2171 10th Street, S. W., Kenmore Station

FRANK H. NEWTON, Student Assistant in the Testing Laboratory, Summer of 1930.

367 Carroll Street

SAM OSTROFF, Part-Time Instructor in Accounting

212 East Crosier Street

THOMAS E. VAN SICKLE, Student Assistant in Biology

455 Hickory Street

BETTY WASHBURN, Assistant in Physical Education

329 East Buchtel Avenue

OTHER PART-TIME INSTRUCTORS AND LECTURERS

1930 SUMMER SESSION (not on the regular Day Session staff).

E. D. BATES, A. M., Instructor in Education

Principal of David Hill School

MAXWELL P. Boggs, A. B., Instructor in Economic Geography

CHARLES E. BRYANT, A. B., Instructor in Education
Principal of South High School

FRANK H. CLOSE, PH. B., Instructor in Education
Superintendent of Schools, Wadsworth, Ohio

CHARLES W. COOKSON, A. M., Instructor in Education
Superintendent of Schools, Urbana, Ohio

July 1

RUSSELL H. ERWINE, A. M., Instructor in Education
Assistant Superintendent of Akron Schools

C. A. FLICKINGER, Instructor in Education
Superintendent of Summit County Schools

MARIE L. HANLEY, Instructor in Reading Methods

A. D. LADD, PH. B., Instructor in Education

Principal of Garfield High School

U. L. LIGHT, A. B., Instructor in Education

Superintendent of Barberton Schools

M. M. PROFFITT, A. M., Instructor in Education

Specialist in Industrial Education, U. S. Office of Education

ADA B. WEYER, Instructor in Beacon Reading

EVENING SESSION, 1930-31 (not on the regular Day Session staff).

H. E. AMMERMAN, Instructor in Salesmanship A. B., Franklin and Marshall Colleges.

513 Vinita Avenue

CLARA BARKER, Instructor in Art

800 Roslyn Avenue

F. J. BAILEY, Instructor in Mathematics
M. E., and M. S. in Electrical Engineering, Bucknell College
471 Beechwood Drive

G. W. DAVERIO, Instructor in Accounting
B. S. in Bus. Admin., Ohio State University.

833 Orlando Avenue

EDMUND BURROUGHS, Instructor in Real Estate Law A. B., Oberlin College; LL. B., Harvard.

206 Sunset View Drive

JEANNE COHEN, Instructor in Business English Student, The University of Akron.

45 Borton Avenue

GIRARD V. DONLEY, Instructor in Psychology, Philosophy and Comparative Religion

A. B., Hiram; B. D., Oberlin College.

Tallmadge, Ohio

R. H. ERWINE, Instructor in Education B. L., Ohio Wesleyan; M. A., Wittenberg College.

803 Bloomfield Avenue

C. W. HALL, Instructor in Real Estate M. A., Yale University.

627 West Market Street

MRS. DONALD HAYWORTH, Instructor in Spanish A. B., Westminster College; M. A., Wisconsin.

283 East Buchtel Avenue

OSCAR A. HUNSICKER, Instructor in Business Law B. A., University of Akron; LL. B., Western Reserve Law School.

217 Kenwick Drive

OLGA JOHNSON, Instructor in Typing Three-year Diploma, State Teachers College, Whitewater, Wisconsin. 160 Fir Street

NAT LEWERS, Instructor in Advertising

1203 Lexington Avenue

FRANK MOORE, Instructor in Industrial Arts A. B., University of Michigan.

Cleveland, Ohio

THOMAS M. POWERS, Instructor in Business Law A. B., Cornell University; LL. B., Cleveland Law School.

University Club

J. J. SPEARMAN, Instructor in Investments B. S., Grove City College; M. B. A., Harvard.

496 Roslyn Avenue

LEWIS C. TURNER, Instructor in Business Speaking A. B., Hiram College; M. Ed., The University of Akron, 1929.

795 Roslyn Avenue

MARIE WAKEFIELD, Instructor in Shorthand B. A., Illinois Wesleyan.

439 Roslyn Avenue

RUTH WHORL, Instructor in Art

B. S. in Education, Ashland College. One summer at Boothbay Studio, Boothbay, Me.; student at School of Applied Art and Design, New York City; and Snow-Froehlich School of Industrial Art, Chicago.

53 Harcourt Drive

# PUBLIC SCHOOL OFFICERS AND TEACHERS CO-OPERATING WITH THE TEACHERS COLLEGE

THOMAS W. Gosling, Ph. D. .....Superintendent of Schools

## CRITIC TEACHERS

CRITIC TEACHERS	
Marrie T. Anners Des D	School
MINA L. ADAMS, PH. B.	
Mrs. Jennie H. Adams, B. E.	
W. E. Anderson, B. A.	
Lois Babb, Ph. B.	
CLARA BARKER	
HILDA BERGLUND, B. S.	
ELEANORE BOWMAN, M. A.	North High
RUTH BRADLEY, B. E.	Garfield High
Mrs. Blanche Brady, Ph. B.	Central High
C. E. Butcher, B. S. in Com.	West High
HARRIET CALLOW, B. S.	Hotchkiss
LEONORE EMRICK, B. S. in Ed.	East High
MARY FINNEY, B. A.	Smith
A. J. Gerber, M. A.	West High
MARIAN HARDING, B. S. IN ED.	Robinson
EDITH HARRIS, PH. B.	South High
Н. М. Новят, Рн. В.	West High
Mrs. Ercell S. Hudgins, B. A.	Jackson
ROBERT B. JONES, B. Ed.	Highland
Vesta Leight	Leggett
WILLIAM LOEBER	
DAISY LOWER	Garpela High
Nadine Michael, B. A.	Carfield High
BURNICE MOORE, B. Mus.	Review
JANET MORRISON, B. E.	Rarber
Lydia Oberdeck, B. A.	
GLADYS PARSHALL, A. B.	
INEZ PARSHALL, A. B.	Central High
\$tella Potschner, B. Ed.	Schumacher
Paul Pugh, B. S. in Chem. E	Garfield High
HARRY E. REED, B. A.	South High
MRS. GRACE RICHARDSON, B. S.	Central High
L. D. RICKER, M. ED.	East High
Mrs. Ruth D. Sampson, M. Ed	Central High
MRS. EVELYN R. SILLS MRS. VELMA P. SMITH, B. E.	Music Methods
ELSA SHAFFER, B. E.	
MABEL TODD, B. A.	
MABEL UROUART	
MRS. DOROTHY Q. WALDSMITH, A. B.	Crosby
GEORGE F. WEBER, A. B.	King
RUTH WHEELER, B. S.	East High
D. B. ZOOK, M. A. IN Ed	South High

# fm. GENERAL INFORMATION

## COMMITTEES OF THE GENERAL FACULTY 1930-31

Executive: Zook, O. E. Olin, Spanton, Ayer, Bankes, Simmons, Weeks (Secretary).

Admissions and Advanced Standing: SCHMIDT, SPANTON, AYER, BANKES, GARDNER, MITCHELL.

Classification: Buchtel College of Liberal Arts—Charles Bulger and Heads of Departments; College of Engineering and Commerce—Charles Bulger, Ayer, Gilmour and Department Heads; Curtis School of Home Economics—Charles Bulger, Maxwell, Lathrop, Counts; Teachers College—Charles Bulger, Bankes, and all Members of the Teachers College Faculty; Evening Session—Holmes, Bankes, Hayes, Kuhnes, and Heads of Departments of Liberal Arts College and College of Engineering and Commerce.

Social: Thompson, Mitchell, Gardner, Norman, Reed, Griffin, Maxwell, Fox, W. W. Leigh, Greenly, Tinklepaugh.

Holiday Observance: John Bulger, Chairman; DeLeone, Barnhardt, Dunckley, McKee, Lipps, Blair, Fanning, Paul Smith, Sherman, Raw, and Class Advisers.

Athletics: Ayer, C. R. Olin, Sefton, DeGraff, Van Metre.

Student Affairs (Council, Elections, Advisers, Advertising, Etc.): SIMMONS, MITCHELL, GILMOUR, EVANS, LATHROP, GARDNER, VANCE AND CLASS ADVISERS.

Library: Pease, Cushman, Kraatz, W. W. Leigh, Kuhnes, J. Bulger, Packard.

Scholarship and Honors: Young, Hoover, Jones, Durst, Householder, Kelley.

University Assembly and Public Speaking: HAYWORTH, DELEONE, WILSON, STICKNEY, ROBERTS, McEBRIGHT, KING, AND ENDE.

Examinations: HAYES, DAVIS, O. E. OLIN, PEASE, COOK, UPP, BENDER, FLINT, WOOD AND DEGRAFF.

Personnel: GARDNER, HAYES, MITCHELL, GILMOUR, GREENLY.

#### FACULTY REPRESENTATIVES FOR UNIVERSITY ACTIVITIES

-	PANHELLENIC AdviserMitchell Interfraternity CouncilGardner
JUNIOR CLASSCRECRAFT	WOMEN'S LEAGUE AND ROOMSMITCHELL UNIVERSITY PUBLICATIONSVANCE
MUSICDELEONE	University ProductionsHAYWORTH
EVENING SESSION STUDENT BODY	HOLMES VANCE

#### THE UNIVERSITY OF AKRON

The University of Akron was created as a municipal institution 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.

In October, 1926, by action of the Board of Directors, the name of the university was changed to The University of Akron.

The 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.



# DEPARTMENTS, EQUIPMENT AND STANDARDS

#### 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, Bachelor of Science, and Bachelor of Science in Home Economics.

#### THE COLLEGE OF ENGINEERING AND COMMERCE

The College of Engineering and Commerce offers courses in various branches of engineering, in commerce and finance, and in secretarial science. All engineering courses are on the co-operative basis. Commerce courses are on the full-time basis. A certificate course and a four-year secretarial course are offered.

Five years of eleven months each are required to complete an engineering course. A school, work and vacation calendar appears in the outline of engineering courses.

#### TEACHERS COLLEGE

Teachers College was organized in 1921 in co-operation with the Akron Board of Education. 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

All colleges of the University offer courses in the Evening Session. Credit is given toward a degree for regularly prescribed college subjects. Candidates for a degree must satisfy the entrance requirements of the University.

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. Besides offering the prescribed subjects leading to a degree, the various colleges have developed certificate courses which require approximately thirty-six hours of college work. The following certificate courses are offered:

BUCHTEL COLLEGE OF LIBERAL ARTS: Writers Course.

COLLEGE OF ENGINEERING AND COMMERCE: Municipal Engineering, Industrial Electricity, Industrial Production, Management, Accounting, Association Courses in Advertising, Real Estate, Purchasing, and Secretarial Courses.

THE TEACHERS COLLEGE: Art Appreciation, Fine Arts, Stage Design, Art Design; two and three year elementary courses with planned study leading to certification by the State Department of Education.

#### THE SUMMER SESSION

A Summer Session of six weeks in the Teachers College furnishes instruction to teachers and other persons who seek opportunities for training. Courses are also offered to meet the needs of university students.

#### 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 and most of the basement of Carl F. Kolbe Hall.

The Library contains about 32,224 cataloged volumes, about 12,180 pamphlets and about 5,000 mounted pictures in addition to several hundred volumes of miscellaneous books and public documents as yet uncataloged; also a considerable number 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 Department of Engineering.

The resources of Bierce Library are open to citizens, and the students of the University are privileged also to use the Akron Public Library.

#### COMBINATION COURSES

To students wishing to enter the profession of law, the College of Liberal Arts offers the opportunity of a combination Arts-Law course with the Law School of Western Reserve University, and also holds itself ready to consider, in individual cases, similar combination courses with other high-grade professional schools which require at least three years of liberal arts work for entrance.

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#### **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, now used for a recitation and office building and known as Phillips Hall. Since the completion of Buchtel Hall there have been constructed Olin Hall, occupied by the departments of biology and physics; the central heating plant; Curtis Cottage, used as the home of the School of Home Economics; the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000; the Carl F. Kolbe Hall, the gift of Mr. F. A. Seiberling and Mr. F. H. Mason; and the engineering building. In 1927, one of the houses on the southwestern corner of the campus was made available for the use of the Music Department. Through the courtesy of the Akron School Board, the Teachers College occupies a part of the Spicer School Building for classroom and office purposes.

#### **STANDARDS**

The 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, the North Central Association of Colleges and Secondary Schools, and the American Council on Education. 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 premedical work by the American Medical Association. Its women graduates are eligible to membership in the American Association of University Women.

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#### **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

- 1. Graduation from an accredited four-year high school.
- 2. For admission to the University of Akron the average of the work done by the student during his last two years of high school shall be the passing grade of that school plus one-third the interval between the passing grade and 100.
  - 3. Distribution of units in accordance with the following table:

English 3 Foreign Language 2 History 1 Science 1 Algebra 1½ Pl. Geometry 1 Solid Geometry 0 Vocational 0	OOTILIER Home Economics	O. F. Engineering	Commerce Commerce and A-yr. Secretarial	oorttise 2.yr. Secretarial	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Allowed
Total91/2	9	8	91/2	7 or 8	9	_

In addition to these, enough additional units are required to make a total of 15 units without exceeding the maximum allowed in any one group.

- One unit of plane geometry or 2 units of foreign language are required.
- <sup>2</sup> Not required for the Commercial Teachers and the Industrial Arts and Vocational Education courses.
- <sup>2</sup> 1½ units of algebra are required for the Industrial Arts and Vocational Education courses.
- <sup>4</sup> Of the elective units accepted for the two-year secretarial course, six units may be in vocational subjects distributed as follows:
  - If 6 units are offered, at least 4 units should be commercial.
  - If 5 units are offered, at least 3 units should be commercial.
  - If 4 units are offered, at least 2 units should be commercial.

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

#### REGISTRATION AND CLASSIFICATION

Students who wish to gain admission by certificate should ask the principal of the high school to mail a statement of high school record on a blank supplied by the University Examiner upon request. If the certificate is satisfactory the applicant is notified, and is expected to present himself in person to register between August 17 and September 5. ENTERING FRESHMEN ARE NOT ALLOWED TO REGISTER AFTER NOON OF SEPTEMBER 5. A \$5.00 deposit is required at the time of registration which is applied on

Registration of entering freshmen for the second semester is on ? January 29, 1932, from 9:00 to 4:00 and January 30 from 9:00 to 12:00. FRESHMAN WEEK

The University of Akron in 1926 adopted a plan to aid the Freshman in adjusting himself to university life. The week preceding the opening of the regular sessions is devoted to a program consisting of a general assembly, tests, physical examination, lectures, payment of fees and concluding with a mass meeting. At the time of registration each student is assigned to a section and carries out the schedule as outlined by the Director of Freshman Week on a printed

program. For the first semester, 1931-32, all entering freshmen are required to report at 8:00 a.m. on Tuesday, September 8, and attend all

sessions of the week, Tuesday to Friday, inclusive.

For the second semester, only one day, Tuesday, February 2, 1932.

will be devoted to a freshman program.

Students transferring from any college to the University of Akron are required to take the psychological tests given during Freshman\_ Week.]

REGISTRATION DAYS

The registration days for upper classmen for 1931-32 are:

Day Session in all departments of the University, September 11 and 12; Friday, 8:30 a. m.-5:00 p. m., and Saturday, 8:30 a. m.-5:00 p. m., and 7:00-9:00 p. m. for the first semester. For the second semester, January 11 to 16, inclusive, with final registration and classification on February 1 and 2.

Evening Session, September 24, 25 and 26, 9:00 a. m. to 9:00 p. m. for the first semester; February 4, 5 and 6, 9:00 a. m. to 9:00 p. m. for the second semester.

A late registration fee of \$5 will be charged after these dates.

#### ADMISSION FROM OTHER COLLEGES

The student who wishes to enter the University of Akron with advanced standing should ask the Registrar of the institution from which he is transferring to send to the University Examiner a transcript of his record.

Advanced credit will not in general be granted in excess of 16 credit hours per semester nor will the total number of hours granted

exceed the total number of quality points earned. Evaluations of work taken elsewhere are tentative until a year of residence work has been completed at the University of Akron.

Evaluations of work taken elsewhere and statements of work required for a degree or diploma shall not be considered valid for indefinite periods. In general, such statements presuppose that the course will be completed in the minimum period of time.

No student will be received on transfer from another college or university who does not meet the scholastic requirements of the University of Akron, or who is ineligible to re-enter the institution

from which he desires to transfer.

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 credit hours of work. Except in Buchtel College of Liberal Arts, three-fourths of this must be professional work done in the college granting the degree.

#### SPECIAL STUDENTS

Students who have not fulfilled the entrance requirements, and who are 21 years of age or more, are known as special students. Such students are not admitted in candidacy for degrees, but are permitted to enter any classes for which they may be prepared.

#### IRREGULAR STUDENTS

Students who have fulfilled the entrance requirements, but who are not pursuing a regular course in candidacy for a degree, are known as irregular students.

#### SUBJECTS REQUIRED FOR ADMISSION

For the subjects, required or accepted, for admission to the several colleges of the University, see the entrance requirements of these colleges in the general catalog or respective bulletins.

#### SUBJECTS ACCEPTED FOR ADMISSION

English	o or to units
History, Social Sciences and Civics (not more than 4	2
units in all)	<b>/</b>
Adv. U. S. History	½ or 1 unit
English History	⅓ or 1 unit
General History	1 unit
Ancient History	
Med. and Mod. History	
Civics	⅓ unit
Political Economy	½ unit
Sociology	½ unit
Languages, Foreign (not more than 6 units in all)	
French	1 to 4 units
German	
Greek	
Latin	
Spanish	

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Mathematics (2 to 4 units)  Algebra		to	1	units unit unit unit
Science (not more than 4 units in all)			. "	
Biology Botany Chemistry General Science Physics Physiography Physiology Zoology	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	unit unit unit unit unit unit unit unit
Vocational Subjects (not more than 3 units in all)				•.
AgricultureArt		-	3	units units
Commercial Subjects	1	•	3	units
Domestic Science		-	3	units units
Music	1	-	3	units

#### 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.

One day, Tuesday of the first week of the semester, is devoted to a freshman orientation program. All entering freshmen are required to attend all sessions.

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.

#### PSYCHOLOGICAL TESTS

Psychological tests are given to new students at the beginning of each semester to aid in determining the amount of work students should be permitted to carry, in advising the amount of outside work students may undertake, in deciding the dismissal or suspension of students, in considering the reinstatement of suspended students, in appointing student assistants, in determining admission to certain advanced courses, and in sectioning classes.

All new students including specials are required to take the psychological tests unless excused by the Dean of the college in which they are enrolled.

All seniors are given opportunity to take psychological tests during the week of their final examinations with the understanding that each senior who takes these tests will be given a complete statement of grades made in all psychological tests taken during his college course.

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#### EMPLOYMENT AND LIVING CONDITIONS

#### 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.

#### SELF HELP

A large proportion of the men of the institution are selfsupporting. 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.

No student, however, should enter without sufficient money for payment of term bills and for living expenses for a semester, 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 and women should be addressed to Dean D. H. Gardner.

#### LIVING CONDITIONS

The University maintains no dormitories, but lists of rooms for men may be found at the office of the Dean of Men. All women attending the University are under direct charge of the Adviser of Women. No non-resident woman is allowed to select a rooming place not on the approved list of the Adviser of Women. Non-resident women intending to enter the University should write beforehand to the Registrar, 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. or Y. W. C. A.

#### FEES AND EXPENSES

All fees are payable at the Secretary's office before the student enters classes.

#### SUMMARY STATEMENT

- (A) Tuition is free to citizens of Akron.

  Tuition charges for those not citizens of Akron are shown below.
- (B) A Maintenance Fee is paid by all students. The amount of the fee depends upon the number of credit hours taken.
- (C) Laboratory Fees and Breakage Deposits are charged in some courses, to cover the materials used.
- (D) Student Activity Fee is charged students taking eight credit hours or more. It includes student athletic ticket.
- (E) Graduation Fee, in connection with Bachelor's degree and Master's degree.
- (F) Other Small Fees.
- (G) Refunds.

#### TUITION

Rules adopted January 12, 1926:

Citizens of the City of Akron shall not be charged tuition in any school or department of the University.

In applying this rule, the following persons, if citizens of the United States, shall be deemed to be citizens of Akron unless the circumstances of any particular case may show the fact to be otherwise, viz.:

- 1. Any unmarried person under 21 years of age living within the City of Akron with his parents, if Akron is the place of domicile of such parents.
- 2. An unmarried person over 21 years of age who has resided in the City of Akron continuously for one year or more immediately prior to registering in the University for any semester, and who has chosen Akron as the place of his domicile.
- A husband living with his wife, or a wife living with her husband, within the City of Akron, when such husband and wife have chosen Akron as the place of their domicile.

In every other case the burden of proving citizenship in the city of Akron shall rest with the person claiming the right of free tuition.

Any person enjoying the right of free tuition shall forfeit the right upon abandoning the city of Akron as his place of domicile, but may regain the right upon re-establishing his domicile in Akron.

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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, by presenting receipted tax bill for that half year.

by presenting receipted tax bill for that half year.
TUITION FEES
Payable only by students who are not citizens of Akron:
College of Engineering and Commerce, co-operative students:
First and second semesters, each\$60.00
Summer Session25.00
College of Liberal Arts, Teachers College, and full-time stu-
dents in the College of Engineering and Commerce, per
semester:
For 8 hours or more\$90.00
For less than 8 hours, per hour10.00
Summer Session and Evening Session Free
MAINTENANCE FEE
Payable by all students in day and evening sessions.
Summer Session, per semester hour (Teachers College)\$ 6.00
All other sessions of the University.
For 1 or 2 credit hours 12.00
For 3 credit hours 18.00
For 4 credit hours 24.00
For 5 credit hours
For 6 credit hours or more 35.00
For 6 credit hours or more (non-residents,
evening session)
Evening Session, Institute Lectures:
For a two evening course 2.00
For more than a two evening course, in addition to the
\$2.00, 50c per evening.
In laboratory courses \$3.00 is charged for each actual
hour of class work in excess of the number of credit

GRADUATION FEE

(Payable at least ten days before graduation day)
Bachelor's degree \$\frac{5.00}{10.00}\$

#### STUDENT ACTIVITIES FEE

Payable by all students taking 8 credit hours or more, excepting those the major part of whose work is in the Evening Session. First semester (including a student athletic ticket for the entire

Second semester, to students enrolled the preceding semester

Second semester, to new entrants (including student athletic ticket)

Second semester, to new entrants (including student athletic ticket)

9.00

Summer Session (Teachers College) 2.

Summer Session (

## LABORATORY FEES

All laboratory fees are payable strictly in advance before entering classes.

#### (Per semester unless otherwise stated.)

Bacteriology 19, 20\$	7.50
*Bacteriology deposit for breakage	5.00
Biology 3, 4, 19, 20, each	7.50
Biology 1, 2, 6, each	4.00
Biology 23, 24, per semester hour, each	1.00
Botany 31, 32, each	4.00
Concrete Laboratory, C. E. 24	2.00
Chemistry 1, 2, each	
Chemistry 1, 2, each	10.00
Chamistry 3, 4, 5, 0, 7, 6, 9, 10, each	7.00
Chemistry 32, 33, Engineering, each	7.00
Chemistry 13, 14, 103, 104, 107, 108, each	8.00
Chemistry 15, 16, each	15.00
Chemistry 13, 14, 103, 104, 107, 108, each Chemistry 15, 16, each Chemistry 115, 116, each	12.00
*Deposit for breakage (all laboratory courses in Engineering and	
each Chemistry course)	5.00
Dietetics and Advanced Nutrition 32	2.75
Electrical Laboratory, E. E. 7, 8, 10, 13, 14, 22, 61, 62, each	3.00
Food Economics	2.50
Foods 15, 16, each	4.50
Foods 13, 14, each	4.50
Foods, general (Teachers College), 13, 14, each	4.50
Foods (Evening Session)	3.75
Foods for Special Occasions 33, 34 (Evening Session), each	5.00
Home Economics 23, 24, each	1.00
Make-up 22	
Marketing 26	2.50
Materials Laboratory, C. E. 18	2.00
Materials Laboratory, M. E. 24, 61, each	3.00
Mechanical Laboratory, M. E. 62	2.00
Matallurgy 34	5 00
Physics 3, 4, 5, 6, 7, 9, 10, 19, 51, each Physics 1, 2, 52, 53, 54, 55, 56, each Radio Communication, E. E. 45	4.00
Physics 1, 2, 52, 53, 54, 55, 56, each	2.00
Radio Communication, E. E. 45	2.00
Radio Speaking 9	2.50
Railroads, C. E. 20	1.00
Research Problems (Teachers College)	5.00
tR. O. T. C. (Basic Course) denosit	5.00
†R. O. T. C. (Advanced Course) deposit for uniform	10.00
Speech 3 Stagecraft 21de	1.25
Stagecraft 21de	2.50
Steam Power Plants, M. E. 46	2.00
Surveying, C. E. 1	3.00
Surveying, C. E. 4	2.00
Thesis, Teachers College	10.00
Typewriting 31, 32, 33, 34, 39, each	1.00
Zoology 1, 2	4.00

<sup>\*</sup>The unused portion of the breakage deposit will be returned to the student.
†This deposit is returnable at the end of the semester, less charges for lost or damaged articles.

#### **MUSIC**

Piano Practice, per semester\$ 5.00
Two private lessons per week, each semester, in Piano, Voice, Violin and Organ
Students who wish to take short courses of ten lessons each may do so by special arrangement with the Director of Music.

#### LATE REGISTRATION FEE

A fee of \$5 will be charged students who have not completed registration, classification and payment of fees before the class work begins in the school in which they are registered.

The dates on which this fee will first be payable each semester, 1931-32, are as follows:

#### FALL SEMESTER, 1931

Monday, September 14	All Departments of the Day Session
Monday, September 21	The Evening Session
Tuesday, November 17	Division B, Co-operative Engineering students

#### SPRING SEMESTER, 1932

Wednesday, February 3	All Departments of the Day Session
Monday, February 8	The Evening Session
Tuesday, April 12Divi	ision B, Co-operative Engineering students

#### SUMMER SESSION, 1932

Tuesday, June 21	The Teachers Colleg	e
Tuesday, June 21		)
Tuesday, July 19	Co-operative Engineering students (Division A	)

#### MISCELLANEOUS FEES

One free transcript of record will be furnished a student. A fee of \$1 will be charged for each additional copy.

After a student has been classified a charge of \$1 will be made for any change in his program which is not made at the instance of the University authorities.

A fee of \$1 per subject with a maximum of \$5 will be charged for entrance examinations taken on days other than those specified, and a fee of \$5 will be charged for each examination in college work not taken in course.

All students, both resident and non-resident, are required to pay a maintenance fee covering registration and incidentals. An advance deposit of \$5 on the maintenance fee is required of all new students at the time of registering. This fee will be applied on fees at entrance.

All students taking a total of eight semester hours or more in one or more schools of the University are required to pay the student activities fee.

All students graduating from the University are required to pay a graduation fee, payable at least one week before graduation.

Persons are permitted to audit classroom work. Auditors do not participate in class discussions or examinations, and do not receive credit. The fee is the same as for regular enrollment.

#### REFUNDS

Tuition and fees are not returnable, except for withdrawal on account of sickness, when doctor's certificate may be required, or other cause entirely beyond the control of the student.

No refunds will be made of late registration fees, transfer fees, examination fees, nor advance deposit if the student is eligible to enter the University.

To be entitled to refund, certain statements are required which may be learned at the Secretary's office.

Fees paid for evening courses offered but not given will be refunded.

Advance deposit will be refunded if student is not eligible to enter the University.

When students are entitled to other refunds, the University will retain a proportion and return to the student the balance paid, as stated below:

Time of Withdrawal	Amount Retained by University
Before entering classes	.\$2.50 of evening session fees or \$5.00 of
	day session fees.
During 1st or 2nd weeks	
During 3rd or 4th weeks	40% of semester charge.
During 5th or 6th weeks	60% of semester charge.
During 7th or 8th weeks	80% of semester charge.
After 8th week	Full amount paid.

# FUNDS, PRIZES, SCHOLARSHIPS AND HONORS

# 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 College. 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." Application should be addressed to Miss Marion Voris, Treasurer, 369 East Buchtel Avenue.

# SCHOLARSHIP LOAN FUNDS

The Akron College Club maintains a loan fund known as the Elizabeth A. Thompson Scholarship Fund, amounting to \$300 a year. Loans are made to deserving women students of the University.

The Akron Panhellenic Association offers a scholarship of \$150 a year to deserving women students.

## THE ASHTON PRIZES

A fund consisting of \$3,000 was 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 is 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 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 and \$20 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 University of Akron. 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 ELIZABETH A. THOMPSON CUP

The Elizabeth A. Thompson Cup, named in honor of the Dean of Women, is a silver cup to be awarded each September to that Akron high school whose graduates attending the University of Akron made the best record in literary attainments during the preceding college year. It will become the permanent property of the first school which wins it three times. This cup was donated in 1925 by Mrs. Irving C. Tomlinson of Boston, Mass. The winner of the cup for 1924-25 was North High School; for 1925-26, Central High; for 1926-27, West High; for 1927-28, Central High; for 1928-29, South High; for 1929-30, Central, and it became the permanent possession of Central High School.

# THE JOHN R. BUCHTEL CUP

The John R. Buchtel Cup, donated in 1925 by Rev. Irving C. Tomlinson, Class of '80, is a silver cup awarded annually to that high school whose graduates, during the preceding year, have made the best athletic record at the University of Akron, the cup to become the permanent property of the school which wins it three times. This cup was awarded for 1925-26 and again for 1926-27 to East High School; for 1927-28 to North High; for 1928-29 to Garfield; 1929-30 to Garfield. The cup will not be awarded after 1929-30 and will become the property of the University.

# 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 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, and a third cup has been donated by Mrs. Loomis. Contests are now being held for it. The winners of all contests are as follows:

The First Loomis Cup: 1915-16, West High School; 1916-17, South High School; 1917-18, South High School; 1918-19, won permanently by South High School.

The Second Loomis Cup: 1919-20, West High School; 1920-21, South High School; 1921-22, West High School; 1922-23, South High School; 1923-24, North High School; 1924-25, won permanently by South High School.

The Third Loomis Cup: 1925-26, Central High School; 1926-27, North High School; 1927-28, Garfield High School; 1928-29, West High School; 1929-30, West High.

# FRED C. KELLY PRIZE

For the academic year 1930-31, Mr. Fred C. Kelly of Peninsula, Ohio, author and lecturer, offered a prize of \$50 to be administered by the English Department and to be awarded to students of Freshman Rhetoric.

# KAPPA DELTA PI PRIZES

Alpha Theta Chapter of Kappa Delta Pi has established two prizes of \$25 each in Teachers College, one for freshmen and one for sophomores. The following rules govern the awarding of these

- I. Rules for freshman award.
  - The student must have completed thirty-two semester hours of work. The thirty-two hours must include required subjects for Teachers College freshmen.

  - There must be no failing grades.

    The total number of grades shall be averaged.
  - The student must have entered Teachers College within three years after being graduated from high school.
- II. Rules for sophomore award.
  - The student must have completed sixty-four semester hours of work.
  - The sixty-four hours must include required freshman and sophomore work.
  - There must be no failing grades in either the freshman or sophomore years.

  - The total number of grades shall be averaged.

    The student must have entered the sophomore class within one year after completing the freshman year.

# THE DR. E. B. FOLTZ PRE-MEDICAL PRIZE

The Dr. E. B. Foltz Pre-Medical Prize of One Hundred Dollars to be awarded each year to that member of the graduating class who made the highest average grade in all work taken in the four-year Pre-Medical Course.

(The name of the winner shall be announced at Commencement, but the actual award shall not be made until the winner has enrolled in medical college.)

# RHODES SCHOLARSHIPS

Men who have completed their sophomore year in Buchtel College are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extracurricular activities. Further information may be obtained from the dean of the College of Liberal Arts.

# THE AKRON SMITH CLUB FELLOWSHIP

A fellowship amounting to \$500 is offered by the Akron Smith Club to a member of the graduating class of the Liberal Arts College who may desire to attend Smith College. Selection is made by a committee.

# FELLOWSHIPS IN RUBBER CHEMISTRY

Three fellowships have been established in the Department of Chemistry, one by the Goodyear Tire & Rubber Company, one by the Firestone Tire & Rubber Company, and one by the B. F. Goodrich Company, for the study of chemistry of india rubber. These fellowships are open to graduates of standard American colleges and are of the value of \$1,000 per year each, with remission of all University fees. The B. F. Goodrich Company Fellowship will be discontinued after June, 1931.

#### FRANK PIXLEY MEMORIAL FUND

The Frank Pixley Memorial Fund was established in 1931 by the will of Isabel McRoy Pixley, wife of Frank Pixley, class of 1887. The fund amounts to \$50,000, the income from which is to be used for the establishment of scholarships in drama, music and literature. Graduate scholarships in literature and drama are worth \$400 to \$500 a year; undergraduate scholarships, \$50 per semester. Music scholarships for students who are taking one or more courses in Buchtel College of Liberal Arts are worth \$40 per semester.

# PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary fraternity founded to encourage high scholarship among the students of the Liberal Arts College. The requirements are as follows:

1. Only such courses as are taken in the Liberal Arts College or such courses as are regularly accredited in that college may be counted for standing in the fraternity.

standing in the fraternity.

2. A minimum of 112 hours for three and one-half years for those completing the regular four-year course, or of 80 hours for two and one-half years for students who have spent one year at another institution, are required.

3. Only scholarship hours are counted—not hours made for good attendance.

Phillips Fund.

4. All seniors who have maintained an average grade of not less than 90% during their three and one-half years are eligible for membership, provided that at least two and one-half years have been taken in Buchtel College of Liberal Arts.

5. Beginning at mid-year, 1927, and thereafter, all juniors who have completed two and one-half years of work in Buchtel College of Liberal Arts with the average grade not less than 92% shall be eligible for mem-

ership

6. Those seniors who may have entered the institution at mid-year as freshmen and who have remained three years in Buchtel College are also eligible, the required number of scholarship hours being 96.

7. Average scholarship is reckoned as a whole, not specialization.

### THETA PHI

Theta Phi is a commercial honorary fraternity founded in 1918 for the purpose of encouraging high scholarship in commerce courses. Students who have an average of 85% or better in all subjects and at least 80 hours of credit are chosen in the second semester of the junior year. The purposes of the fraternity are:

- 1. To raise the standards of scholarship in the Department of Commerce.
- 2. To provide recognition for outstanding students in the Department of Commerce.
- 3. To further co-operation between the student body and the faculty of the Department of Commerce.

# PHI CHAPTER OF SIGMA TAU

Sigma Tau is a national honorary engineering fraternity. Phi Chapter was established at the University of Akron in December, 1924, the charter being granted to the local honorary fraternity O. H. M. which was founded in 1919. Sigma Tau elects its men on the basis of scholarship, sociability, and practicality. Any Senior or Junior engineer is eligible whose scholastic average for all his previous college work ranks him in the upper third of the combined Junior and Senior students. The aim of the fraternity is to improve scholarship, foster a better spirit among engineering students, and help members to become better citizens.

## SIGMA PI EPSILON

Sigma Pi Epsilon is an honorary fraternity, founded for the purpose of promoting scholarship, citizenship and artisanship among the students of the Teachers College. Candidates must earn an average grade of 89% during the three and a half years in Teachers College, and their rank must place them in the upper 15 per cent of the graduating class. Six semesters' work must be in Teachers College. The citizenship record is determined by a vote of the faculty of Teachers College, and the artisanship record by the student's practice teaching.

## HONORS COURSES

As a special opportunity for the exceptional student, the faculty has established what is known as Honors Courses. Students eligible to apply for these courses are chosen by the faculty council each year from the list of the juniors and seniors in accordance with their records in the Registrar's office. Such students are notified to this effect and may then, if they so desire, apply for the privilege of working in Honors Courses. From these candidates the faculty council selects a definite number of those deemed best fitted to take advantage of this opportunity.

The privilege of being eligible to Honors Courses consists in the fact that to such a student the limitation of the number of term hours does not apply, but he may elect as he and the committee may choose. Attendance of students so chosen is optional at any and all lectures and recitations.

The head of each department personally or by deputy supervises such work elected in his department. For each student in Honors Courses individual final examinations are held which consist of an oral examination before the entire committee in charge of such courses, a written examination within the major department, and a thesis which takes the form of a comprehensive study on work done.

The faculty committee in charge of Honors Courses is composed of the heads of departments in which Honors students elect majors. It consists of at least three members, the chairman being the faculty member appointed as director of Honors Courses. All Honors students meet with this committee once every two weeks in seminar.

At the close of each semester a student may for unsatisfactory work or for misconduct be deprived of Honors privileges and reduced to the rank of regular student. The faculty council may then choose another student to fill the place of one so demitted.

# COMPREHENSIVE EXAMINATIONS

Beginning with the senior class of 1931, a general final examination of at least three hours' duration, covering all courses taken in major subjects, will be required in many of the departments of instruction (not including Co-operative Engineering).

This requirement is optional with the departments and the examination may be oral or written or both.

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# GENERAL REGULATIONS

THE SEMESTER 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 "semester hour."

REQUIRED FOR DEGREE—128 semester hours, except in the cooperative courses of the College of Engineering and Commerce; 270 hours on the co-operative basis are required for the degree of Civil, Electrical, Industrial or Mechanical Engineer.

Candidates for a degree are required to file an application with the Registrar by February 15 of their senior year preceding graduation.

ELECTION OF SUBJECTS IN OTHER SCHOOLS OF THE UNIVERSITY—No student in one school or college shall be allowed to elect subjects in other schools until all freshman and entrance requirements are satisfied.

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

## GRADING SYSTEM

93-100	inclusive	Excellent	A
85-92	inclusive	Good	В
		Fair	
		Poor	
Below	70	Conditioned	Ē
		Conditioned Failed	Ē
Incom	olete		Ī

"Conditioned" means that although the semester's work is not of passing grade the deficiency may be made up without repeating the course in class. Failure to remove the deficiency satisfactorily by the close of the student's next semester in the University shall convert the grade to F. No higher grade than "D" shall be given for the removal of a "Condition."

The grade "Conditioned" may be given only for the first semester's work in a subject extending through two or more semesters, such as first-year chemistry or first-year foreign language.



"Incomplete" means that the student has done passing work in the course, but some part, for good reason, has not been completed. Failure to make up the omitted work satisfactorily within the first 6 weeks of the student's next semester in the University shall convert the grade to F.

# QUALITY REQUIREMENT

The student must present for graduation quality points equal in number to 1.1 times the total number of semester hours passed as shown on his record in the Registrar's Office. Quality points are given as follows:

For each credit hour of A, 3 quality points. For each credit hour of B, 2 quality points. For each credit hour of C, 1 quality point. For each credit hour of D, 0 quality points.

Effective September, 1931, for all work taken after that date:

For each credit hour of F, -1 quality point. For each credit hour of F (second failure in same course), -2 quality points. For each credit hour of F (third failure in same course), -3 quality points.

# RULES REGARDING FAILURE

# FIRST YEAR STUDENTS

Any first year full-time student failing to receive credit for at least 8 semester hours (not including sub-freshman courses) with a grade other than E or F at the end of any semester shall become a probationary student; co-operative students shall receive credit for 15 co-operative hours the first semester and 10 co-operative hours the second semester.

Any first year full-time student failing to receive credit for at least 11 semester hours (not including sub-freshman courses) with a grade other than E or F at the end of the first semester, shall become a probationary student at the end of the second semester unless he receives credit for at least 11 semester hours with a grade other than E or F for that semester.

# UPPER CLASSMEN

Any full-time student who has been in attendance at the University of Akron 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 become a probationary student. For co-operative students the following number of credit hours apply, exclusive of home study courses:

Sophomores	12 hours
Pre-Juniors	13 hours
Tuniors	14 hours

#### PROBATIONARY STUDENTS

A probationary student shall be required to take a definite program of studies, from 8 to 16 hours on full-time basis (14-22 hours, co-operative basis), the exact number of hours depending upon his rating in the psychological test on entering the University. He must pass in all the work taken or be dropped from the University. He continues to be a probationary student until he passes all his work in a semester with the grade of C or higher.

The re-admission of students dropped shall rest with the Committee on Admissions. Such students, however, will not be considered for re-admission within less than one year from the time they have been dropped from the Uni-

versity.

### **DEGREES**

A statement of degrees conferred upon completion of courses, 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.

# ABSENCE AND TARDINESS

Students are expected to be present at all meetings of classes for which they are registered, and may be dropped by the Dean from a course at any time for absence on recommendation of the instructor.

Two tardinesses shall count as one absence.

In case of prolonged absence, students may be reinstated in classes only by the Dean on recommendation of the instructor, and the work omitted shall be made up at the discretion of the instructor.

Three absences from assembly each semester shall be allowed. For each additional absence one-sixth of one semester hour shall be added to the student's requirements for graduation.

Faculty members are required to report to the respective Deans absences which are continuous for one week; at the end of each semester, absences of each student shall be reported with his final grade.

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GENERAL INFORMATION

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# PHYSICAL AND MILITARY TRAINING

#### PHYSICAL EDUCATION

PROFESSOR FRED S. SEFTON, Director; Assistant Professors Blair and SMITH, MR. LIPPS, MISS DUNCKLEY, DR. ROBART, MISS WASHBURN.

Physical education is conducted under the direct supervision of experienced physical directors, who are members of the University faculty. The aims of the department are to develop organic power, the basis of vitality, the prerequisite to physical and mental efficiency, and 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 to all students entering the University. Physical defects, abnormalities, and weaknesses are noted, and healthful exercise is prescribed to fit each student's needs; this may include athletic sports or remedial gym-

During the fall and spring months there are outdoor exercises and games at Buchtel Field. During the winter months the time is devoted to boxing, wrestling, basketball, apparatus work, wand, dumbbell and swinging club drills.

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.

#### TRAINING COURSE

A course for training teachers in physical education and for preparation for coaching is given in conjunction with Teachers College. For details see statement under Teachers College section in the General Catalog or Bulletin of Teachers College.

# **EQUIPMENT**

The gymnasium is 100 feet long and 50 feet wide. On the ground floor are locker 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 is 80 feet by 50 feet and is equipped with modern gymnastic apparatus.

A six-acre athletic field is provided for the use of the students, and all intercollegiate and other contests are held there. The field is equipped with a grandstand which accommodates 8,000 spectators, dressing rooms, cinder running track, baseball diamond, football

field, and tennis court.

#### INTERCOLLEGIATE SPORTS

Intercollegiate sports are under the government of the Ohio Athletic Conference, and the faculty committee appointed by the president.

# INTRAMURAL SPORTS

All students may participate in intramural athletics. The sports are conducted for everyone with the aim of providing good wholesome recreation and physical exercise. To attain this end the department makes an effort to have each student in the University enroll in one or more of the scheduled activities.

#### ATHLETIC INJURIES

Students training for, or participating in, athletic competition, do so voluntarily and assume the risks incident thereto. The University assumes no legal responsibility or obligation to meet the expense of caring for injuries sustained by students in athletic training or competition.

The policy of the University is to pay, within reasonable limitations determined by it, the expense of the treatment of injuries received by athletes while training for, or participating in, intercollegiate sports, provided the treatment is first authorized by the University medical officer for athletes.

#### PHYSICAL TRAINING FOR MEN

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.

#### PHYSICAL TRAINING FOR WOMEN

All freshman women are required to take two hours of physical training each week.

## GYMNASIUM LOCKERS AND UNIFORMS

Gymnasium lockers are obtained by depositing \$1.00 at the office of the Secretary of the University. The receipt therefor is presented to the Assistant in Physical Training (men) and the Director of Physical Education for Women (women) in the gymnasium for locker assignment.

The University Bookstore will carry a stock of uniforms required

for gymnasium classes.

# THE UNIVERSITY HEALTH SERVICE

To provide for the student body necessary phases of health promotion not included in the field of physical education, the Student's Health Service has been established.

The activities of the Health Service are along the lines of personal attention, sanitation, and education. The personal attention phase of the Health Service work includes annual physical examinations of all freshman and sophomore students. Complete physical records and a follow-up system are maintained. The medical examinations conducted by the Health Service and the posture and physical efficiency tests, conducted by the Department of Physical Education are combined. The particular findings of each are of value to both.

The University Physician is in his office at the gymnasium one hour and a half each day, from 11:00 to 12:30.

# MILITARY SCIENCE AND TACTICS RESERVE OFFICERS' TRAINING CORPS

MAJOR ORAL E. CLARK, INFANTRY (D. O. L.), Professor; CAPTAIN LEWIS S. NORMAN, INFANTRY (D. O. L.), Assistant Professor; CAPTAIN ROBERT E. SWAB, INFANTRY (D. O. L.), Assistant Professor; MASTER SERGEANT HENRY METZGER, U. S. A. (RETIRED),

Instructor; Sergeant Steve Kish, Detached Enlisted Men's List, U. S. A., Instructor.\*

In 1919 the U. S. Government established at the University of Akron a unit of the Reserve Officers' Training Corps. This unit is of the same sort as those established at practically all of the large universities and colleges throughout the country 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 (three years for co-operative students), elective for the men who have completed satisfactorily the basic course and the first two years of scholastic work for Engineering and Commerce students.

## BASIC COURSE

The basic course in R. O. T. C. is required of all men during the freshman and sophomore years with the following exceptions:

- a. Aliens.
- b. Men physically disqualified.
- c. Men who have been in the military or naval service more than one year.
- d. Men who are taking short professional or pre-professional courses not leading to degrees.
  - e. Men carrying less than 8 hours of work.
- f. Men who have attended another college 2 years, or who present credit for 48 hours of college work.

<sup>\*</sup>Retired March 31, 1931.

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

During this basic course no compensation is paid the student by the government, but uniforms (except shoes) and equipment are issued for his use. Each student is held responsible for loss or damage to government property issued to him. Each student is required to provide one pair of russet shoes, of approved military pattern, for use with the uniform. Uniforms must be turned in at the completion of each year, or at the 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.

#### FRESHMAN YEAR

Subject	Theoretical Hours	Practical Hours
Military Courtesy		3
Drill and CommandRifle Marksmanship		34 10
Scouting and Patrolling		6
Military Hygiene	6	2
Total hours per school year	41	5596

#### SOPHOMORE YEAR

Subject	Theoretical Hours	Practical Hours
Scouting and PatrollingAutomatic Rifle	4	8
Musketry Drill and Command Combat Principles	20	6 32 8
Total hours per school year		6296

#### ADVANCED COURSE

This course consists of five hours per week (three hours' credit per semester) during the junior and senior years (and pre-junior year for co-operative students). 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. A deposit of \$10 is required, which is returned to the student when he has United States pay credits sufficient to cover cost of his uniform and if he has completed the academic year. 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 \$9 per month. Attendance at one summer camp of not more than six weeks' duration is required; for this attendance, pay at the rate of \$0.70 a day is allowed. On the satisfactory completion of the advanced course, if twenty-one years of age, the student is commissioned in the Army of the United States as a second lieutenant, Infantry Reserve. Promotions thereafter are made in accordance with Army Regulations governing the Organized Reserve.

#### JUNIOR YEAR

Subject The	oretical Hours	Practical Hours
Browning Machine Gun	18	24
37-m/m gun and Trench Mortar	8	10
Drill and Command	18	34
Military Sketching-Map Reading	10	14
Total hours per school year	66	94— 160

#### SENIOR YEAR

	oretical Hours	Practical Hours
Military History Nat. Defense Act		_
Administration Combat Principles		37
Drill and Command	18	34
Field Engineering	10	
Military Law and O. R. Regulations	10	5
Total hours per school year	78	82— 160

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 class room work with proper preparation of subjects for recitations, and practical work either indoors or out, putting into execution the lessons learned in the class room. The facilities of the basic as well as of 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

Attendance at one advanced R. O. T. C. camp, of six weeks' duration, is required of all members of the advanced course. This camp should normally be attended between the first and second years of the advanced course. Mileage at the rate of 5 cents per mile is allowed for the journey to and from the camp. Clothing, equipment, and subsistence are furnished at the camp.

In addition to the drills, target practice, maneuvers, etc., athletics, dances, and other social amusements play a part in the camp life.

# MUSIC

PROFESSOR FRANCESCO B. DELEONE, Director; Mr. WILLIAM E. STRASSNER,
MISS GENEVIEVE RIDER, ASSISTANT PROFESSOR ELMER ENDE,
MR. J. GARFIELD CHAPMAN, MR. FRANCIS J. SADLIER.

The work in music is open to election by members of all college classes. It includes a recitation course in the study of music, meeting twice a week through the year, and participation in Glee Club, Band, or Orchestra, three hours each week.

All students desiring to participate in the class room work in music, or in Orchestra, Band or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester. Students who desire to take no studies except music must fulfill the regular requirements for college entrance. In no case shall the total credit for music exceed fifteen semester hours toward graduation in the Liberal Arts College.

#### COURSES OFFERED

For courses in music offered in the Teachers College see the Teachers College Bulletin or the Teachers College section of the General Catalog. For students not taking those courses, the following is offered:

### THEORY

THE STUDY OF MUSIC. Two credits each semester.

This course is carried on as class room work and is chosen from the following subjects: rudiments, theory of music and elementary harmony, thorough bass, ear training, first year history of music, biographical history of music, musical appreciation, study of operas, etc. Students are not allowed to enter the course in the middle of the year. (Discontinued after 1930-31.)

PROFESSOR DE LEONE

# GLEE CLUB, ORCHESTRA, BAND

MEN'S GLEE CLUB. One credit each semester.

Women's Glee Club. One credit each semester.

ORCHESTRA. One credit each semester.

MR. CHAPMAN

BAND. One credit each semester.

MR, STRASSNER

مرکنی

# PIXLEY SCHOLARSHIPS IN MUSIC

The University offers eighteen scholarships, each worth \$40 per semester for private lessons in piano, voice, violin and organ for students who are taking one or more courses in the Buchtel College of Liberal Arts. The scholarships are competitive and the selection is made by the music faculty. These scholarships offer a splendid opportunity to a restricted number of students to further their musical education at very low cost.

# PRIVATE LESSONS

Opportunity is also offered for private instruction in piano under Professor DeLeone, in violin under Mr. Chapman, and in voice under Mr. Strassner. Piano practice in a specially equipped building is
offered to those who desire it. The fees for such instruction are:
Piano Practice, per semester\$ 5.00
Two private lessons per week, each semester, in Piano, Voice, Violin and Organ 60.00
Students who wish to take short courses of ten lessons each may do so by special arrangement with the Director of Music.

# BUCHTEL COLLEGE OF LIBERAL ARTS

# A. I. SPANTON, A. M., Dean

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

HENRY BLANDY. JOHN R. BUCHTEL. REV. H. L. CANFIELD, D. D. J. S. CANTWELL, D. D. REV. B. F. EATON. JUDGE E. P. GREEN. O. F. HAYMAKER. Rev. J. W. Henley, D. D. JAMES A. LANTZ. REV. GEO. MESSENGER. REV. H. F. MILLER. Col. Geo. T. Perkins. REV. E. L. REXFORD, D. D. WILLARD SPAULDING. GEORGE STEESE. JUDGE NEWELL D. TIBBALS. REV. ANDREW WILLSON, D. D.

# PRESIDENTS OF BUCHTEL COLLEGE

*S. H. McCollester, D. D., Litt. D.	1872-1878
*E. L. Rexford, D. D.	
*Orello Cone, D. D.	
C. M. Knight, Sc. D. (ad interim)	
I. A. Priest, D. D.	
*A. B. Church, D. D., LL. D	1901-1912
P. R. Kolbe, Ph. D	1913-1914
*Deceased	





# BUCHTEL COLLEGE OF LIBERAL ARTS

#### **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.

# ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance re-

quirements made on introductory pages.

The minimum requirement for entrance to the Liberal Arts College is 15 units. Not less than 12 of these 15 units must be from the following subjects: English, Mathematics, Foreign Language, Science, History, the Social Sciences. The following 9½ units must be included:

English3	units
Mathematics (Algebra, 1½; Plane Geometry, 1)2½	units
Foreign Language (4 recommended)2	units
U. S. History and Civics1	unit
Science (must include laboratory work)1	unit

The required foreign language 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.

Only one unit of Algebra is required for admission to Home Economics

# COURSES OF STUDY AND DEGREES

The courses of study in Buchtel College lead to the A. B. degree, except the Chemistry course and the Pre-medical course, which lead to the B. S. degree; and the courses in Home Economics, which lead to the degree B. S. in Home Economics.

# REQUIREMENTS FOR GRADUATION

The requirement for graduation is 128 semester hours and 141 quality points (see page 43). The 128 hours must include the following in addition to the required work of the freshman year and the required physical and military training in the sophomore year: a major of 18 to 32 hours; a minor of 18 hours; from 24 to 32 hours of group-electives; and additional subjects to make the total of 128 hours.

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 semester hours if carried satisfactorily beyond the regular classroom work. The thesis must be handed to the instructor in charge one month before the end of the student's final semester.

## DEPARTMENTS OF INSTRUCTION

Biology
Chemistry
Economics and Sociology
English (including Journalism)
Greek and Latin
History
Home Economics
Mathematics
Military Training

Modern Languages Music Philosophy Physical Training Physics Political Science Psychology Speech

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## FRESHMAN STUDIES

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

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

# \*THE A. B. COURSE

Rhetoric 3 credit hours each semester—required
Human Biology 4 credit hours one semester-required
Problems of Citizenship 4 credit hours one semester—required
Physical Training (women) 1 credit hour each semester—required
Physical Training and Mili-
tary Drill (men)
French
Spanish
German 3 or 4 credit hours each semester } one required
Latin 4 credit hours each semester
Greek 4 credit hours each semester
Mathematics 4 credit hours each semester—required

# THE B. S. COURSE

For the required freshman subjects in the Chemistry course, the Pre-medical course, and courses in Home Economics, see pages 60, 61 and 77.

# **MAJORS**

At the close of the freshman year all students, except those taking courses in Home Economics, are asked to select the department and subject in which they desire to take the most work. The subject selected is thereafter known as the student's major.

The following table gives the number of semester hours required for a major in each subject:

I.	LATIN	32	hours,	including	freshman	requirement.	
II.	GERMAN	24	hours,	including	freshman	requirement.	
III.	French	24	hours,	including	freshman	requirement.	
IV.	SPANISH	24	hours,	including	freshman	requirement.	
V.	English	30	hours.	_			
VI.	HISTORY	30	hours.				
VII.	POLITICAL SCIENCE	24	hours.				
VIII.	Economics	24	hours.				
IX.	Sociology	24	hours.				
$\mathbf{x}$ .	PHILOSOPHY AND						
	Psychology	24	hours.				٠,
XI.	Speech	24	hours.				1
XII.	MATHEMATICS	30	hours,	including	freshman	requirement.	1
XIII.	BIOLOGY	32	hours,	including	freshman	requirement.	I
	Physics	32	hours,	including	freshman	requirement.	1
XV.	CHEMISTRY					U	
XVI.	Pre-medical	Se	e page	60.			

\*Students in A. B. courses may substitute Latin or Greek for mathematics. Students intending to major in biology or physics will take biology or physics in the freshman year, and postpone their foreign language or some other freshman subject until the sophomore year.

### **MINORS**

In addition to his major, the student is required to take at least 18 hours in some subject other than his major subject. Ordinarily the minor will be closely related to the major. With the permission of his major professor, the student may select his minor from two closely related subjects. All minor work must be approved by the student's major professor.

# GROUP ELECTIVES AND FREE ELECTIVES

In addition to his major and minor work and the required sophomore work in physical and military training, the student must choose certain group electives, as indicated in the following table. He is then free to elect such subjects as he desires to complete the 128 hours needed for graduation.

††Minors and group electives must be in addition to any work

taken to satisfy freshman requirements.

††The same subject cannot be counted as satisfying both minor and group elective requirements.

# TABLE OF MAJOR, MINOR, AND GROUP-ELECTIVE REQUIREMENTS IN SEMESTER HOURS

Group-Electives

LatinGermanFrench	Major *32 *24 *24	Minor 18 18 18	26 26 26	8 8	**Foreign Language	History, Economics or Political Science 6 6 6	Psy-chology or Sociology	6 6 6
Spanish English	*24 30	18 18	26 26	8	6	6 16	6	6
History Political Science	30	18	26 26	8 8 8 8 8	6	, , ,	ĕ	6
Economics	.24 -	18	26	8	6.		<b>6</b> .	6 6 6
Sociology Philosophy &	24	18	26			6		
Psychology Speech	24 24	18 18	26 26	8 8 8	6	6	6	6
Mathematics	*30	18 ~	32	Š	6 % %	Ğ.	ě	6 6
Biology Physics	*32 See pa	18 ge 88	24		~6	٥	•	•
Chemistry Pre-medical	See pa	ıge 61						

The student should consult the descriptive matter of his major department for more

The student should consult the descriptive matter of his major department for more specific information concerning major, minor, and group-elective requirements.

\*\*The minimum requirement in foreign language (including work taken in either high school or the University) for graduation from the Liberal Arts College is four years.

Not less than two years of any one language will be counted toward meeting this requirement, and at least two of the four years work in language must be taken in the University, except in the case of students offering four years of one foreign language for entrance, who will be required to take only one year of foreign language in the University.

A year's work in foreign language in the University is to be understood as including at least six credit hours.

\*Including freshman requirement.
†Must be History of England.

\*Must be History of England.

\*Must be second year German, or second year French.
††In the case of students who choose a minor, but not a major, in foreign language, a total of 18 hours of foreign language in addition to the freshman requirement shall be regarded as satisfying both the minor and the group-elective requirement in foreign language.

# SUBJECTS OF INSTRUCTION

An asterisk (\*) preceding the course number indicates the course is open only to juniors and seniors.

The letters de following the course number indicate that the course is given in both the Day and Evening Sessions; e indicates Evening Session only.

#### **BIOLOGY**

PROFESSOR PLOWMAN, ASSISTANT PROFESSORS KRAATZ, FOX, AND SLAGG, MR. MERLIN HAYES.

Major: Thirty-two hours, beginning with either 1-2 or 31-32, but including both, and following either the general biological, the zoological, or the botanical trend. Students who expect to enter the medical school should take the special Pre-medical Major course, as outlined on a subsequent page.

Biology Major students should select the minor field and plan the minor

work at the beginning of the sophomore year.

Under the division of Group Electives, Biology Major students should take Chemistry or Physics; German or French; Economics or Political Science; Psychology; and Literature.

General Final Examination: Seniors majoring in biology are required to pass a general final examination covering all the work they have taken in the department. This examination is given on the completion of course 17.

Courses in Geology are not to be included in the biology major, but may be taken as group-electives in laboratory science.

No credit will be allowed toward graduation for less than the entire year's work in the basic courses, 1-2, 31-32, and 41-42.

Courses 14 and 15, in Human Biology, are freshman requirements, and they cannot be included in either major or minor in Biology.

For statement of laboratory fees, see introductory pages of this bulletin.

1-2. General Zoology. Four credits each semester.

Two lectures and six hours of laboratory work per week. The course considers first the general characteristics of organisms, and then presents a survey of the animal kingdom, covering various aspects of animal life, but stressing principally structural organizations and the advancement from the unicellular type through the higher phyla, followed by brief explanations of evolution and heredity. MR. KRAATZ

31-32. General Botany. Four credits each semester.

Two lectures and six hours of laboratory work per week, devoted to comparative studies of the principal plant groups, their anatomy, nutrition, life histories, heredity, and evolutionary development. The purpose is to discover the ways in which plant life has solved the problems of existence.

Either of these two basic courses, 1-2 or 31-32, may be taken to meet the group elective requirement in laboratory science.

- 3. Vertebrate Anatomy. First semester. Four credits. This course considers first the Vertebrata as a whole, but is devoted chiefly to the vertebrate organ systems studied in a comparative way for the series of vertebrate classes. Two lectures and six hours of laboratory work a week. Required of pre-medical students. Prerequisite, 1-2.

  MR. KRAATZ
- 4. Embryology of Vertebrates. Second semester. Four credits. This course deals with early embryology of vertebrates, in general and with organogeny in a comparative way. The laboratory work includes preparation of microscopic slides. Two lecture-recitations and six hours of laboratory work per week. Prerequisites, 1-2, 3. Not offered in 1932.
- 5. Genetics. First semester. Three credits.

  Lectures, recitations, and some reference reading and demonstrations, dealing with the problems of heredity, variation, and phylogeny of animals and plants. Special consideration to the application of the laws of genetics to the improvement of the human race. Prerequisite, either 1-2 or 31-32.

  MR. PLOWMAN
- 6. General Entomology. Second semester. Four credits. This course deals with the structure and classification of insects in general, and with the characteristics, habits, life histories, and ecological and economic relationships of representative groups and types. Two lectures or recitations, and six hours of laboratory work per week. Laboratory work includes field trips and building an insect collection. Prerequisite, 1-2. Offered in 1932.

MR. KRAATZ

- 7-8. Human Physiology. Four credits each semester. Four lecture-recitations per week, with occasional demonstration experiments, in a detailed study of the human body. For college men. Some knowledge of physics and chemistry will be very useful. Prerequisite, Zoology 1-2, or equivalent. Offered in 1930-1931 and alternate years.

  MR. PLOWMAN
- 9-10. Human Physiology. Four credits each semester. This course is intended for college women. It is given in alternation with 7-8, and is offered in 1931-1932.

  MR. PLOWMAN
- 11. Organic Evolution. First semester. Three credits. The general nature of organic evolution, and a survey of the fields of evidences for organic evolution. An explanation of the main theories of evolution and a brief history of the evolution concept. Three lectures a week with occasional discussion work, and text and reference reading. Prerequisite 1-2, or 31-32. MR. KRAATZ

- 14. Human Biology. Either semester. Four credits. A brief study of the human body, considering its development, structure, and internal processes, together with its relationship to the inanimate environment and to other living things. Special emphasis is placed upon personal health and fitness. Required of all men in the first year of the A. B. curriculum. Four lectures per week, with reference reading.
- 15. Human Biology. Either semester. Four credits. This course, similar to 14, is specially adapted for college women. It is required of all women in the first year of the A. B. curriculum. Four lectures per week, with reference reading.

  MR. PLOWMAN
- \*17. THE BIOLOGICAL SCIENCES. First semester. Three credits. A general survey of the history and trend of the major fields of Biology. Required of all Biology major seniors.

  MR. PLOWMAN
- 18. Conservation. Second semester. Three credits. A course of lectures and recitations, dealing with the natural resources of the world; their origin, modes of recovery, uses and conservation. This course forms the natural connecting link between technical biology and the fields of sociology, economics, commerce, and the like. Open to all college students, without prerequisite.

  MR. PLOWMAN
- 19-20. Bacteriology. Four credits each semester.

  Two lecture-recitations and six hours of laboratory work per week, dealing with the history and growth of the science of bacteriology, the nature and properties of micro-organisms, the relations of bacteria and certain protozoa to man, bacteriological laboratory technique, and the elements of pathology. Either Biology 1-2 or Botany 31-32 is prerequisite, and some knowledge of chemistry is essential. An adaptation of this course, including two lectures and three hours of laboratory work per week, has been arranged for students majoring in chemistry.

  MR. FOX
- 21-22. Sanitation and Public Health. Three credits each semester.

A study of the history and principles of sanitary science, including the working out of problems in connection with the food and water supply, garbage and sewage disposal, factories, schools, and other institutions of Akron. This course should prove especially helpful to public school teachers. Prerequisite, 1-2 or 31-32.

MR. FOX

\*23-24. BIOLOGICAL PROBLEMS.

Advanced students in the department may undertake special lines of biological study, under the personal direction of some member of the departmental staff. Credit in this course is determined by the nature and amount of the work done.

MR. PLOWMAN, MR. KRAATZ, MR. FOX, MR. SLAGG

- 33-34. Native and Economic Plants. Three credits each semester. Two lecture-recitations and two hours of laboratory or field work per week, dealing with the identification, classification, peculiarities, and economic uses of important seedbearing plants. The local flora of both fall and spring, and such plants of distant distribution as enter largely into world commerce.

  MR. SLAGG
- 35. NATURE STUDY. Second semester. Three credits. Two lectures and one field trip each week, dealing with the recognition, habits, peculiarities, and uses of large numbers of local plants and animals; also, some study of the features of the earth's surface, of the weather, and of the phenomena of the heavens. Designed especially for teachers. (See also Teachers College bulletin.)

MR. SLAGO

- 41-42. General Geology. Four credits each semester. Lectures, laboratory work, readings, discussions, and field trips, dealing with earth materials, structures, and forces, and their physiographic expression in Europe and North America. Special attention is given to the study of historical geology and of local geology. This course is not open to freshmen. Not offered in 1931-1932.
- 45. WEATHER AND CLIMATE. First semester. Three credits. A study of the elements of weather, and of world climates, with especial consideration of the controlling influence of climate in relation to the distribution, character, and activities of living things, particularly man.

  MR. SLAGG

71-72e. BACTERIOLOGY. Two credits each semester.

63e-64e. Insects and Man. Two credits each semester.

71e-72e. BACTERIOLOGY. Two credits each semester.

69-70e. Advanced Botany. Two credits each semester.

75-76e. Genetics and Human Development. Two credits each semester.

# PRE-MEDICAL MAJOR COURSE

Students planning to study medicine should complete at least three years of the following course before entering the medical school. Completion of the entire four years is strongly recommended.

	Credit hrs. per semester
General Inorganic Chemistry, 3-4 7 German or French	rtebrate Anatomy and bryology 4 ganic Chemistry, 7-8 3 tht, 3 (First Semester) 4 thematics or Rhetoric 3 or 4 oup Elective 3

17 or 18

SOPHOMORE YEAR Credit hrs. per semester Quantitative Analysis, 5-6	SENIOR YEAR Credit hrs. per semester Biology
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Group electives must include six semester hours in each of the following: History, Economics, or Political Science; Psychology or Sociology; Literature or Speech.

# CHEMISTRY

Professor Simmons, Assistant Professors Schmidt, Schaefer and Cook, Mr. Anderson, Mr. Haas

Major: Forty hours of Chemistry. The following courses or equivalent must be included: 3, 4, 5-6, 7-8, 9-10, 13-14.

Other Requirements: Literature, 6 hrs.; Sophomore Mathematics, 10 hrs.; Psychology or Sociology, 6 hrs.; History, Political Science, or Economics, 6 hrs.; Zoology, 8 hrs.; Physics, 8 hrs.; equivalent of 2 years of German.

General Final Examination: All seniors majoring in chemistry will be required to pass a general final examination at the close of the first semester, on all the work they have taken in the department in the previous three and one-half years.

#### CHEMICAL COURSE

FRESHMAN YEAR Credit hrs. per semester General Chemistry, 3 and 4	Sophomore Year
JUNIOR YEAR   Credit hrs. per semester	SENIOR YEAR Credit hrs. per semester Organic Chemistry

- 1-2. GENERAL INORGANIC CHEMISTRY. Four credits each semester. Students who intend to major in chemistry, or who are taking the pre-medical course, should take, not chemistry 1 and 2, but chemistry 3 and 4. Three recitations and three hours of laboratory work each week.
- 3. GENERAL INORGANIC CHEMISTRY. First semester. Seven credits. Designed for those majoring in chemistry or taking the pre-medical course. Four recitations and nine hours of laboratory work a week.

- 4. QUALITATIVE ANALYSIS. Second semester. Seven credits. A study of the separation and identification of the common cations and anions. Four recitations and nine hours of laboratory work a week.
- 5-6. QUANTITATIVE ANALYSIS. Four credits each semester.
  One lecture and nine hours of laboratory work per week. The first semester's work deals entirely with gravimetric analysis, and related theoretical principles. The second semester is devoted to volumetric methods, alkalinity, acidimetry, oxidation, reduction and precipitation processes. Emphasis on laboratory technique and stoichiometry. Prerequisite, 4.

  MR. COOK
- 7-8 ELEMENTARY ORGANIC CHEMISTRY. Three credits each semester.

The elements of organic chemistry, including aliphatic and aromatic compounds. Laboratory work includes preparation and purification of typical compounds, and a study of their properties. The course satisfies pre-medical requirements in organic chemistry. Pre-dental students may also enroll. Required of all students majoring in chemistry. Prerequisite, 2. Two recitations and three hours of laboratory work each week.

MR. SCHMIDT, MR. COOK

9-10. Advanced Organic Chemistry. Three credits each semester.\*\*

Recent discoveries and theories of organic chemistry are discussed. Study of the text is supplemented by reference reading. Laboratory work includes ultimate analysis, identification of organic compounds, and preparation of various compounds on a larger scale than in elementary organic chemistry. Required of all students majoring in chemistry. Prerequisite, 8. Two recitations and three hours of laboratory work each week.

MR. SCHMIDT, MR. COOK

\*13-14. Physical Chemistry. Five credits each semester.\*\*
A study of the properties of gases, liquids, solids, solutions, and chemical equilibrium. The solution of problems is an important part of the class work. The laboratory work consists of physical-chemical measurements. Three recitations and six hours of laboratory work each week. Prerequisite, 6 and 8 and Physics 1-2.

MR. COOK, MR. HAAS

\*15-16. CHEMISTRY OF RUBBER, TECHNOLOGY. Four credits each semester.\*\*

The course embraces a study of the following topics: crude rubber; analysis of vulcanized compounds; milling; vulcanizing; physical testing; compounding; accelerators; theories of vulcanization; synthetic rubber; constitution of rubber; reclaimed rubber; substitutes. Two recitations and six hours of laboratory work per week. Prerequisite, 8.

MR. SIMMONS

<sup>\*\*</sup>Graduate students may receive credit for this course toward an advanced degree.

Additional work will be required in such cases and a semester grade not lower than B must be obtained. Subject to requirements for advanced degree.

- \*17-18. CHEMICAL CALCULATIONS. One credit each semester. This course deals with the solution of selected chemical problems, employing graphic methods and the calculus.

  MR. HAAS
- 57. Organic Chemistry. First semester. See under Home Economics.
- 58. FOOD CHEMISTRY. Second semester. See under Home Economics.
- 32-33. Engineering Chemistry.

MR. SCHAEFER

34. METALLURGY OF IRON AND STEEL. MR. SCHAEFER Courses 32-33, 34 are given only for students taking Engineering. For description, see bulletin of the College of Engineering and Commerce.

The following courses are given in the Evening Session:

Advanced Organic Chemistry. Two credits each semester.

RUBBER CHEMISTRY. Two credits each semester.

PHYSICAL CHEMISTRY. Two credits each semester.

#### GRADUATE COURSES IN CHEMISTRY

101-102. Seminar. One credit each semester. Graduate students meet once each week with the members of the department to discuss recent contributions to chemistry.

103-104. Advanced Inorganic Preparations. Two credits each semester.

A laboratory course involving the preparation and analysis of inorganic compounds. Prerequisite, Chemistry 8 and 14.

- 107-108. Organic Analysis. Two credits each semester. This course embraces methods of ultimate organic analysis, and the qualitative identification of organic compounds both in pure state and as components of mixtures. Prerequisite, Chemistry 6 and 8.
- 113. CHEMICAL THERMODYNAMICS. First semester. Two credits. The application of the first and second Laws of Thermodynamics to chemical problems. Prerequisite, Chemistry 14 and Integral Calculus.
- 114. COLLOID CHEMISTRY. Second semester. Two credits. The fundamental laws and principles governing the behavior of colloidal systems are considered with respect to their application in practice. Prerequisite, Chemistry 8 and 14.

115-116. RESEARCH. Three credits each semester. The methods of approach to a research problem are discussed by selecting a problem, searching the literature, and planning a course of action for its solution. A thesis is required.

# ECONOMICS AND SOCIOLOGY

Professor Davis, Assistant Professors Anthony and DeGraff

Major: Two majors are offered: one in Economics and one in Sociology. The minimum for each is 24 hours. For required group-electives see statement on introductory pages of this bulletin.

General Final Examination: Seniors majoring in this department are required to pass a general final examination covering all the courses they have taken in their major subject.

#### **ECONOMICS**

PROFESSOR DAVIS, ASSISTANT PROFESSOR ANTHONY

1de. Principles of Economics. First semester. Three credits. The basic principles and concepts in economics; the production, consumption, and distribution of wealth. This course or its equivalent is required for entrance to any other course in economics. Students planning to major in economics should take this course in their sophomore year.

- 2de. Principles of Economics. Second semester. Three credits. This course gives an introduction to labor organization and labor problems, money, credit and banking, international trade and foreign exchange, economic crises, transportation, agricultural problems, social programs, public receipts and expenditures. It is a prerequisite for all advanced courses in economics.
- \*3. Foreign Trade. First semester. Three credits. Recent tendencies in the foreign trade of the United States, the principle of comparative cost, the balance of trade, ocean shipping, the technique of handling and financing foreign trade. Prerequisite, 1-2.
- \*4. Foreign Exchange. Second semester. Three credits. The fundamentals of foreign bills of exchange, import and export credits, gold movements and the influence of investment and speculation, international creditor and debtor aspects, and governmental interference with rates of exchange and foreign trade. Prerequisite, 3. Not offered in 1931-1932.
- \*10. Money and Banking. Second semester. Three credits. The principles and functions of money, credit and banking, credit instruments, credit and banking institutions, with especial attention to the Federal Reserve System. Prerequisite, 1-2.

\*5. Corporation Organization and Finance. First semester.
Three credits.

The different forms of business organization; the formation, promotion, and financial policies of corporations; nature and elements of capitalization, varieties of securities, methods of underwriting, distribution of profits, financing, failure and reorganization. Prerequisite, 1-2.

- \*6. Investments. Second semester. Three credits. This course deals with the nature, principles, classification and technique of investment; real estate loans; national, state and municipal bonds; investment analysis; railroad, public utility, industrial and financial institution securities. Prerequisite, 1-2.
- \*7. Labor Problems. First semester. Three credits. Labor organization and legislation in America, the conflict between employers and employees, underlying causes, efficiency and welfare of the worker, and voluntary and legal methods employed by laborers, employers, and the public in an attempt to promote industrial peace. Prerequisite, 1-2.
- 7e. LABOR PROBLEMS. Two credits each semester.
- \*8. Economic Theory. Second semester. Three credits. This course deals with some of the more important problems of economic theory as applied to the factors and functions of production, capital and capitalization, value and price, wages, interest, rent and profits, price theories, and theories of the business cycle. Required of all majors in economics. Prerequisite, 1-2. Given in 1931-1932 and alternate years.
- \*15-16. Economics Seminar. Both semesters. Open to advanced students majoring in Economics.
- 23-24. Economics for Engineers. This course is only for students in the College of Engineering and Commerce.

The following courses offered in the College of Engineering and Commerce are of special value to students majoring in Economics. Such students are required to include Statistics as a part of their major, and are urged to choose all the rest of these courses in their free electives. For descriptions of courses prerequisite to these, see College of Engineering and Commerce section of general catalog, or the bulletin of that college.

12. Economic History of the United States. Either semester. Three credits.

A short study is made of those features in England which have influenced the industrial life in the United States. Such topics are considered as exploration and settlement, territorial acquisition, land policies, population growth, growth of commerce, crises, industrial combination and conservation, banking institutions and railroad systems, tariff, labor unions, and government regulation of trade.

- 14. Economic Geography. Second semester. Three credits. This introductory course develops a clear conception of environmental elements such as climate, land forms, soils, mineral resources, and native vegetation, and shows their influence upon man's economic activity.
- 21-22. Accounting. Three credits each semester. This course introduces the student to the details of business management. The recording of important transactions such as acquiring assets, borrowing money, incurring expenses, and making purchases or sales, are considered. Attention is directed to the balance sheet and the statement of profit and loss, their construction, interpretation, and uses.
- 53. Transportation. Second semester. Three credits. A study of the American transportation system from the points of view of the economist, the shipping public, and the transportation administrator. The part played by transportation in the production, exchange, and distribution of wealth, service, rate making, valuation, and federal regulation. Prerequisite, 1-2. Given in 1931-32 and alternate years.
- 55. RISK BEARING AND INSURANCE. Second semester. Three credits.

  An examination of the many risks in our economic order and of

An examination of the many risks in our economic order, and of the methods, devices, and institutions which have evolved to deal with these risks. Special attention to the risk-bearing activities of such institutions as speculative exchanges and insurance companies. Insurance in all its applications is emphasized. Prerequisite, 1-2. Given in 1931-32 and alternate years.

- 57. STATISTICS. First semester. Four credits. In this course the student is taught to apply the scientific method to business and social problems. Emphasis is on the use of surveys, accounting, analysis and group tests, and the collection and use of statistical data. Prerequisite, Economics 1 and 2. Given in 1931-32 and alternate years.
- 61. Business Administration. First semester. Three credits. This is a survey course in which the business establishment is considered as a unified concern composed of various departments such as finance, production, distribution, and accounting. The managerial viewpoint is taken throughout. Class work is supplemented by problems and trips.

76. ELEMENTS OF PUBLIC FINANCE. Second semester. Three credits. A study of the principles that should guide the city, state, or nation in raising and expending revenue. The sources of revenue, principles of taxation, governmental securities, fields of expenditure, and control of expenditures. Prerequisite, 1-2 and one course in Finance. Given in 1930-31 and alternate years.

81. Marketing. First semester. Three credits. The functions of marketing, middlemen and their place in the market structure, retail types and policies, consumer and producer co-operation, market finance, associative activities, cost of marketing, prices and price factors. Prerequisite, Economics 1-2.

92. Principles of Advertising. Second semester. Three credits. This course treats the problems and scope of advertising and its place in business, human aspects of the market, appeals, presentation of appeals, media, and special fields of advertising. Class work is supplemented by special problems. Prerequisite, 1-2.

#### SOCIOLOGY

# ASSISTANT PROFESSOR DEGRAFF

Ide. General Sociology. First semester. Three credits. Basic concepts and methodology of Sociology. A systematic study of the origin, structure, development, and function of social groups. The course surveys the various fields of Sociology, and provides the student with a sociological point of view in the approach to social problems.

2. Social Attitudes. Second semester. Three credits. A study of the development of personality as the result of social interaction. Processes by which an individual becomes a person. The course explains personality on the basis of the organization of values and attitudes. The processes of organization, disorganization, and reorganization of habitual behavior patterns are treated as natural phenomena resulting from social change. The means of intercommunication, language, gesture, imitation, and emotion, are stressed as the media by which these processes function. Prerequisite, 1.

\*3de. Social Pathology. First semester. Three credits. A survey of pathological conditions and processes in modern society. The social factors involved in widowhood, divorce, prostitution, alcoholism, old age, poverty, unemployment, juvenile and adult delinquency, and physical and mental defectiveness. Prerequisite, 1 and 2. Not offered in 1931-1932.

\*4de. The Family. Second semester. Three credits. A systematic study of the sociological and psychological processes entering into modern family life. Sociological and psychological processes which lead to disorganization and disintegration. The

family is studied as a group of interacting personalities. Prerequisite, nine hours of Sociology.

- \*5. Urban-Rural Sociology. First semester. Two credits. A study of urban and rural persons as representing the organized habitual behavior patterns resulting from an urban or rural environment, with emphasis upon the processes of disorganization, disintegration, and reorganization of personal behavior patterns as a result of the movement from rural to urban or urban to rural environment. Prerequisite, six hours of Sociology. Offered in 1931-1932 and alternate years.
- \*6. The Sociology of Leisure Time. Second semester. Two credits.

An attempt to define leisure time as a natural social phenomenon. Present uses of leisure. Constructive social programs such as adult education, recreation, and communal activities are contrasted with commercialized recreation, loafing, and perverted uses of leisure time. Prerequisite, six hours of Sociology. Offered in 1931-1932 and alternate years.

- \*7. Social Theory. First semester. Two credits. A systematic study of the social philosophies of Plato, Comte, Spencer, Tarde, Ward, Giddings, Hobhouse, Small, and Ross, with their application to the social problems of modern civilization. Prerequisite, twelve hours of Sociology. Offered in 1932-1933 and alternate years.
- \*8. Social Origins. Second semester. Two credits. A course designated to indicate something of the social situation under which cultural patterns originated and the processes by which they have been transmitted. Present-day creeds, codes, ethics, values, and attitudes are analyzed. Prerequisite, six hours of Sociology. Offered in 1932-1933 and alternate years. Also given the first semester of 1931-1932.
- \*9-10. Seminar and Thesis. Two credits each semester. For seniors only. To be arranged with instructor.

In addition to the preceding courses in Sociology, the following courses will be offered as soon as demand and the growth of the department justify:

THE SOCIAL SURVEY.

THE SOCIOLOGY OF THE CROWD.

SOCIAL WELFARE PROBLEMS.

CRIMINOLOGY.

SOCIAL STATISTICS.

LEADERSHIP.

SOCIAL CASE WORK.

THE SOCIOLOGY OF MIDDLE AGE.

THE AMERICAN NEGRO.

#### **ENGLISH**

DEAN SPANTON, PROFESSOR PEASE, ASSISTANT PROFESSOR MITCHELL, Mr. VANCE, MISS CUSHMAN, Mrs. IRISH, Mr. STICKNEY, MISS STEVENSON, Mr. ROBERTS

Major: A minimum of 30 hours, exclusive of 1-2 and courses in Journalism, is required for a major. A major must include courses 27-28, 29-30, 31, two courses from 3, 5, and 6, and selected courses from 32 to 46 inclusive to make a total of at least 30 hours.

Order of Work: Courses 27-28 are prerequisite to the more advanced courses and must be taken in the sophomore year by students desiring to major in English. English History 9-10 must also be taken in the sophomore year.

General Final Examination: Seniors majoring in English are required to pass a general final examination covering all the work taken in the department.

#### RHETORIC

Freshmen who are found to be inadequately prepared for Rhetoric 1 are required to enter a sub-freshman rhetoric class, without credit.

1de. Rhetoric. Either semester. Three credits. This course is designed for elementary instruction in English composition. Students are given practice in expressing their own ideas. Attention is devoted particularly to sentence and paragraph structure, and to the writing of short expository compositions.

2de. Rhetoric. Either semester. Three credits. This course is a continuation of 1. Exposition, description, and narration are included. The student is given much practice in writing in all three, much longer expository papers being required than in Rhetoric 1. Prerequisite, 1.

- 3. DAILY THEME WRITING. First semester. Three credits. This course is planned to give the student much practice in writing and criticism. The class meets for discussion two hours a week. Conferences with the instructor replace a third class hour. Primarily for sophomores. Prerequisite, 1-2. Offered in 1931-1932 and alternate years.

  MISS MITCHELL
- 4. Essay Writing. Second semester. Two credits.

  Modern essays are studied for method and style. Each student may choose whatever types he wishes for his original work. Frequent conferences with the instructor are required. Prerequisite, 3. Offered in 1931-1932 and alternate years.
- 5-6. Short Story Writing. Two credits each semester. Narrative ease and effectiveness are the aims of this course. The work includes a survey of models and technique in the development of the short story, study of present tendencies, and constant practice in writing short stories. The practice work includes at first short papers for technical effects, and completed stories later. In the second semester emphasis is placed upon the use of the dramatic element. Offered in 1932-1933 and alternate years.

  MR. PEASE

### LANGUAGE AND LITERATURE

25-26. Introduction to Literature: Types of Prose and Poetry.

Three credits each semester.

This course stresses literary types and characteristics rather than the historical development of English literature. Types of prose are studied the first semester; types of poetry, the second semester. Prerequisite, 1-2.

MR. ROBERTS

27-28. HISTORY OF ENGLISH LITERATURE. Three credits each semester.

The course presents an introductory survey of the great English authors, the chief types of prose and poetry, and the historical backgrounds and tendencies of literary periods. This course, not 25-26, should be elected by students who are majoring in English or who plan to take other courses in literature. Prerequisite, 1-2.

MR. PEASE

\*29-30. CHAUCER. Two credits each semester.

The work includes a careful study of the best of the Canterbury Tales and a more rapid reading of other important portions of Chaucer's work. Readings, papers. Prerequisite, 27-28. Given in 1930-1931; also in 1931-1932 and alternate years.

MR. PEASE

43. HISTORY OF THE ENGLISH LANGUAGE. First semester. Three credits.

The parallel development of the English language and English history is studied in relation to linguistic sources, changes in form and pronunciation, and the historical conditions and causes leading up to the English language we know today. Prerequisite, 1-2. Given in 1930-1931 and alternate years.

MR. PEASE

31de. Shakspere. First semester. Three credits. A study of the development of Shakspere as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read. Prerequisite, 1-2.

MR. SPANTON

32. WORD STUDY. Second semester. Three credits. After a few introductory lectures on language, the work centers in the study of words—their origin, development, significance, and habits. Prerequisite, 1-2. Given in 1930-1931 and alternate years.

MR. PEASE

\*33-34. NINETEENTH CENTURY LITERATURE. Two credits each semester.

This course includes a study of the most important works of the leading British poets (except Tennyson and Browning) and essayists of the nineteenth century. Prerequisite, 27-28. Offered in 1930-1931 and alternate years.

\*36. Tennyson and Browning. Second semester. Three credits. Prerequisite, 25-26 or 27-28. Given in 1930-1931 and alternate years.

MR. SPANTON

38de. The English Bible as Literature. Second semester. Three credits.

The object of this course is to help the student to see the beauty and power of the Bible as literature; its narrative, exposition, and poetry. Prerequisite, 1-2. Given in 1931-1932 and alternate years.

MR. SPANTON

\*39-40. English Fiction: Development of the Novel. Three credits each semester.

The evolution of the novel, as a distinct type, is followed down from the time of the medieval romances. Emphasis is given to eighteenth and nineteenth century development, with selections, as time allows, from contemporary works. Prerequisite, 27-28. Given in 1931-1932 and alternate years.

MR. PEASE

\*41-42. Drama. Three credits each semester.

A general historical survey of the drama in English, combined with a study of such Continental drama as is important for its influence upon the English. The first semester carries the study through the Elizabethan period. The second semester begins with a consideration of the Restoration period and concludes with the study of contemporary writers. Prerequisite, 25-26 or 27-28. Offered in 1930-1931 and alternate years.

- 45-46de. AMERICAN LITERATURE. Three credits each semester. 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, 1-2.
- 47. RECENT BRITISH POETRY. First semester. Two credits. The best tradition of English poetry is shown to be continued in modern times from Tennyson to Masefield. The course also includes a study of Australian and Canadian verse and of recent tendencies in poetry. Special lectures are given only on the major poets. Optional work is offered in the history of versification and original exercises in verse writing. Prerequisite, 1-2. Offered in 1931-1932 and alternate years.
- 48. RECENT AMERICAN POETRY. Second semester. Two credits. The course covers American poetry from Whitman to Robinson. A study is made of the more important American poets of the last half-century and the more significant currents of modernism. The general requirements and the optional work are as in 47. Prerequisite, 1-2. Offered in 1931-1932 and alternate years.

  MR. PEASE

49-50. Greek Masterpieces in English Translation. Two credits each semester.

A study of the various forms of Greek literature and the leading epic and lyric poetry, the drama, history, and philosophy. Prerequisite, 1-2.

MR. YOUNG

51-52. LATIN MASTERPIECES IN ENGLISH TRANSLATIONS. Two credits each semester.

A study of representative Latin authors and their influence. Prerequisite, 1-2. Not offered in 1931-1932.

MR. YOUNG

60. Use of the Library. Second semester. Two credits. The work includes 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. Prerequisite, 1-2.

MISS CUSHMAN

121-122. Anglo-Saxon. Three credits each semester. Primarily for graduate students. Seniors majoring in English or foreign languages may enter the courses on permission of the instructor. The work of the first semester includes readings in Old English prose with due regard to the grammatical system and linguistic relations, and a survey of Anglo-Saxon literature. The work of the second semester includes the translation and interpretation of Beowulf, with emphasis on its relation to continental tradition and its background of Teutonic thought and custom.

MR. PEASE

80-81-82. English Composition. (For Engineering students.)

83-84-85-86. ENGLISH LITERATURE. (For Engineering students.) Courses 80-86 inclusive are given only for students in co-operative courses. For description see under English in the College of Engineering and Commerce.

### JOURNALISM Mr. Vance

15de. News Writing. First semester. Three credits. Members of this class form the reporting staff of The Buchtelite, semi-weekly student newspaper. The class meets two periods a week, and the third credit is given for laboratory work. Prerequisite, 1-2.

16de. News Writing. Second semester. Three credits. This course may be taken either before or after 15de. Members of the class report for The Buchtelite and meet two periods a week for lectures, reports, and discussions. Prerequisite, 1-2.

- \*17-18. Editing. Two credits each semester. Members of this class edit The Buchtelite, official student newspaper. Problems of headline writing, copyreading, and makeup are studied. Prerequisite, 15 or 16, or the equivalent.
- 19. HISTORY OF JOURNALISM. First semester. Two credits. Early and modern newspapers, and some of the leading journalists of America, are studied through lectures, assigned reading, and reports. Prerequisite, 1-2.
- 20de. Feature Writing. Second semester. Two credits. The writing of special feature articles for newspapers and magazines will be studied, with especial attention to the style and construction of these articles. Students will be urged to submit articles for publication. The course includes textbook study. Prerequisite, 1-2.
- 2e. Contemporary Journalism. Second semester. Three credits. Given in 1930-1931 only.
- 22e. Editing. Second semester. Two credits.

FRENCH GERMAN
(See MODERN LANGUAGES) (See MODERN LANGUAGES)

#### GREEK AND LATIN

#### Professor Young

General Final Examination: Seniors majoring in this department are required to take a general examination to test their ability to translate at sight Latin of a representative sort and their acquaintance with such informational matter as each individual would be reasonably expected to know on the basis of the work done.

An exact and idiomatic use of the English language in all courses is expected.

#### GREEK

- 1-2. Elementary Greek. Four credits each semester. No credit is allowed for the work of the first semester without that of the second. Offered in 1930-1931 and alternate years.
- 3. Plato: Selections. First semester. Three credits. Prerequisite, 1-2.
- 4. Homer's Odyssey: Selections. Second semester. Three credits. Prerequisite, 3.
- 49-50. Greek Masterpieces in English Translations. Two credits each semester.

A careful study is made of representative Greek authors and their influence. Recommended to students majoring in this department and in English.

#### CLASSICAL ARCHAEOLOGY

13-14. CLASSICAL ARCHAEOLOGY. Two credits each semester. A general survey of Greek and Roman archaeology through illustrated lectures, readings, and reports. Offered in 1931-1932 and alternate years.

#### LATIN

Major: Four units of Latin are required of all students entering freshman Latin. Thirty-two hours (including freshman Latin) constitute a major in Latin

Minor: In the case of students who choose a minor, but not a major, in foreign language, a total of 18 hours of foreign language in addition to the freshman requirement shall be regarded as satisfying both the minor and the group-elective requirement in foreign language.

- 1. CICERO: DEOFFICIIS, AND OVID: SELECTIONS. First semester. Four credits.
- 2. Terence: Fhormio, and Pliny's Letters: Selections. Second semester. Four credits. Prerequisite, 1.
- 3. Livy. First semester. Three credits. Selections covering the period of the Hannibalic Wars. Prerequisite, 2.
- PLAUTUS: MOSTELLARIA, AND TACITUS: AGRICOLA. Second semester. Three credits.
   Prerequisite, 3.
- 5. Horace: Odes. First semester. Three credits. Prerequisite, 4.
- Lucretius: DeRerum Natura, and Juvenal: Satires. Second semester. Three credits.
   Prerequisite, 4.
- 7. Horace: Satires, and Virgil: Georgics. First semester.
  Three credits.
  Not offered in 1931-1932.
- 8. Tacitus: Annals. Second semester. Three credits. Not offered in 1931-1932.
- 51-52. LATIN MASTERPIECES IN ENGLISH TRANSLATIONS. Two credits each semester.

A careful study is made of representative Latin authors and their influence. Recommended to students majoring in this department and in English. Not offered in 1931-1932.

#### HISTORY

\*Professor Thompson, Assistant Professor Gardner, Mrs. Sloan, Miss McPeake

Major: Thirty hours elected above the freshman year constitute a major in History. Those students working for a major must take the following courses: 3, 4, 7-8, 9-10, 11-12. Most of the courses in this department are year courses; students cannot enter them in the middle of the year, nor is credit given until the year's work is completed. Course 1-2 is not counted in the thirty hours for a major.

General Final Examination: All students who are majoring in history and who are candidates for a degree are required to pass a general final examination in the second semester of the senior year. The examination will cover all courses taken in the department and any additional readings, or other assignments.

- 1-2. General Survey of History. Three credits each semester. A general comprehensive view of the history of the world is given in this course, by lectures and collateral reading.
- 3. Medieval History. First semester. Three credits. The period from the fall of Rome to the second barbarian invasions is covered, extending to the sixteenth century.
- 4. THE FOUNDATIONS OF MODERN EUROPE. Second semester.

  Three credits.

  The course covers from the sixteenth century to the Congress of

The course covers from the sixteenth century to the Congress of Vienna.

- 5. The Renaissance. First semester. Two credits. Humanism and other factors dealing with this movement are studied in detail.
- 6. The Reformation. Second semester. Two credits. The course is devoted to a study of the religious forces and elements which mark this historical transition.
- 7-8de. HISTORY OF MODERN EUROPE. Three credits each semester. The first semester covers the History of Europe from 1815 to 1870. In the second semester special attention is given to present-day problems.
- 9-10. HISTORY OF ENGLAND. Three credits each semester. The first semester covers the formation of the English race and civilization, the growth of the national government, economic and social conditions, and the influence of the church. In the second semester, special attention will be given to constitutional, colonial, and present-day affairs.

<sup>\*</sup> Deceased-March 30, 1931.

AMERICAN HISTORY THROUGH THE CIVIL WAR. First semester. Three credits.

An intensive study is made of the revolt of the colonies, the foundations of the new nation, Jeffersonian and Jacksonian democracy, the new West, and problems leading to the Civil War.

12. AMERICAN HISTORY SINCE THE WAR. Second semester.
Three credits.

After a survey of the Reconstructive period a survey is made of the development of such modern problems as the civil service, finance, trusts, railroads, imperialism, and particularly the World War period.

- 17. Ancient History. First semester. Two credits. The ancient oriental empires and Greece are studied.
- 18. Ancient History. Second semester. Two credits. The work of the second semester covers the history of ancient Rome.

#### HOME ECONOMICS

PROFESSOR MAXWELL, MISS LATHROP, MISS COUNTS

From its establishment in 1914 to November 14, 1930, this department was known as the Curtis School of Home Economics. The department occupies the building known as Curtis Cottage, which was made possible by gifts from the late William Pitt Curtis of Wadsworth, Ohio, and from many citizens of Akron.

#### COURSE OF STUDY

The course in Home Economics requires four years of regular university work and is planned to meet the needs of women students. All courses combine a thorough training in those branches of arts and sciences essential to intelligent home-making with the broadest possible cultural education. However, many fields of activity other than home-making are open to women trained in Home Economics.

Therefore, the curricula in Home Economics are designed to train young women for home-making and for a remunerative vocation in which all or most of them engage for varying periods of time. Throughout the training period there are certain numbers and kinds of courses which safeguard the preparation for home-making. During the first two years of work any one of four major interests may be chosen for a field of specialization.

Group I—General. For students who desire a liberal college training with emphasis upon subjects which pertain to Home Economics. Persons interested in social betterment who wish to enter definite welfare work may combine home economics and sociology in this curriculum.

Group II—Foods and Nutrition. For students who wish to specialize in dietetics, nutrition, or teaching this phase of work in institutions of higher education, or for laboratory or research workers. Those who intend to become sanitary or food inspectors are advised to take this course.

Group III-Teachers' Curriculum. See under Teachers' College.

Group IV—Home Economics in Business. Textiles, clothing, and fine arts require a basis of the social sciences and fine arts in combination with specialized work in textiles and clothing. This course leads to different phases of commercial work in textiles and clothing. Practice to the extent of one year is required in approved stores of Akron before a degree is granted. For those who wish to become Textile Research Directors, chemistry should be substituted for social science. Vocations toward which this course leads are saleswomen, buyers, stylists, advertising women, personal shoppers, and newspaper and magazine columnists. A combination of this course with the course in Secretarial Science is possible and frequently desirable.

#### DEGREE

For completion of the four-year course in Home Economics (128 semester hours are required for graduation) the degree of Bachelor of Science in Home Economics is conferred.

Economics is conterred.							
HOME ECO	ONOMICS						
FRESHMAN YEAR	FOR ALL GROUPS						
First Semester Cr. Hrs.	0 1 0	Cr. Hrs.					
Zoology 1 4 ,	Zoology 2	4					
Home Economics 1 2 Rhetoric 1 3	Home Economics 2Rhetoric 2	2					
Art 1 2	Art 2	2					
Physical Education 1	Physical Education	1					
Public Speaking 1 3 Home Economics 3 2	Physical Education Home Economics 4 Human Biology 15	2					
Tome Economics 3	Human Biology 13	<del>-</del>					
17		18					
SOPHOMORE YEAR,							
First Semester Cr. Hrs.	Second Semester Chemistry 2	Cr. Hrs.					
Home Economics 11 2	Home Economics 10	4					
Human Physiology 9 4 English 3	Human Physiology 10 English	3					
English 3	English	3					
Electives	Electives	3					
16		16					
JUNIOR YEAR, GE							
First Semester Cr. Hrs.	Second Semester	Cr. Hrs.					
Home Economics 5	Home Economics 6	3					
Home Economics 17 3 Home Economics 15 4	Home Economics 18	4					
Economics or Sociology	Economics or Sociology	3					
Electives 3	Electives	3					
16		16					
SENIOR YEAR, GE							
First Semester Cr. Hrs. Home Economics 19	Second Semester Home Economics 20	Cr. Hrs.					
Home Economics 19	Home Economics 20	3					
History or Economics	History or EconomicsArt 22 or 21	2					
Electives8	Child Care 25	3					
	Electives	5					
16	•	16					
SOPHOMORE YEAR, FO	ODS AND NUTRITION						
Same as for G	Same as for General Course						
JUNIOR YEAR, FOOD	S AND NUTRITION						
First Semester Cr. Hrs.	Second Semester	Cr. Hrs.					
Economics or Sociology 3	Economics or Sociology	3					
Home Economics 15	Home Economics 16	4					
First Semester Cr. Hrs.  Economics or Sociology 3  Chemistry 57 4  Home Economics 15 4  Home Economics 17 3	Home Economics 16	3					
Electives3	Electives	3					
17		17					

#### SENIOR YEAR, FOODS AND NUTRITION

First Semester Home Economics 19 Food Economics 27 Child Care 25 Electives	Cr. Hrs. 3 3 3 7	Second Semester Home Economics 20 Advanced Nutrition and Dietetics Readings in Foods and Nutrition Electives	29 3
	16		16

#### SOPHOMORE YEAR, HOME ECONOMICS IN BUSINESS

First Semester	Cr. Hrs.	Second Semester	
History 1 Economics 1	3	History 2	
Home Economics 11		Home Economics 10	
English	3	English	3
History of Art	2	History of Art	2
Electives	3	Electives	3
	16		17

#### JUNIOR YEAR, HOME ECONOMICS IN BUSINESS

First Semester Cr. Hrs Home Economics 5 3 Home Economics 15 4 Home Economics 17 3 Economics 5 3 Economics 5 3 Electives 3	Second Semester   Cr. Hrs.
16	16

#### SENIOR YEAR, HOME ECONOMICS IN BUSINESS

Sociology Advanced Electives	First Semester Textiles 7	Cr. Hrs. 3 3 10	Second Semester  Textiles 8	Cr. Hrs. 3 3 3 6
		16		15

Students in this course are required to have a reading knowledge of French. See Teachers College Bulletin for outline of Teachers Course, and for description of courses offered in Art.

#### COURSES OF INSTRUCTION

1-2. Elementary Clothing. Two credits each semester. Fundamental processes of garment construction, use and care of sewing machines, and the care and repair of clothing. Simple garments are made, using hand and machine processes. The work of the second semester is based on a study of the college girl's wardrobe. A clothing budget is planned. An ensemble of cotton or linen is made, and the proper accessories assembled to complete the

costume. MISS LATHROP

3-4. Textiles. Two credits each semester. A study of standard textile fibers, with emphasis on the factors which influence style, beauty, use, and wearing quality of fabrics; simple tests for judging materials; and the selection of materials for clothing and house furnishings. MISS LATHROP 5-6. CLOTHING. Three credits each semester.

Art elements and principles are applied to dress design. Line, color, and texture for different individuals. Garments are made from wool materials. The work of the second semester includes the preparation of a dress form. Street, afternoon, and evening gowns of silk are draped on the figure. The course aims to develop originality and skill.

MISS LATHROP

7-8. ADVANCED TEXTILES. Three credits each semester.

An intensive study of textile materials with special reference to the nature of raw materials; economic, chemical and physical applications involved in their manufacture and use, methods and significance of physical tests; work of Consumers League and Bureau of Standards; researches in textiles. Fee \$2.50. Not given in 1931-1932.

MISS LATHROP

9. CHILDREN'S CLOTHING.

A study of design, selection, and construction of suitable clothing for children. Not given in 1931-1932.

MISS LATHROP

10. HISTORIC COSTUME. Second semester. Three credits.

The development of costume is traced from early times to the present. The course deals with a study of costume as an expression of the social, religious, and economic thought of the time, and the part which it plays as an inspiration for modern designing. MISS LATHROP

11. Survey. First semester. Two credits.

This is a general survey of the education of women from early times to the present. It includes a study of the development of the Home Economics movement and the opportunities, other than teaching, which are open to women trained in Home Economics. MISS LATHROP

13-14. General Foods. Four credits each semester.

A study of food in relation to composition, place in diet, selection, preservation, care, and preparation. Emphasis is placed on menu planning, meal preparation, and service. This course fulfills the science requirement for Teachers College students and may be elected by Liberal Arts students. No prerequisite. MISS MAXWELL

15-16de. Foods and Cookery. Four credits each semester.

A study of the composition, value in the diet, selection, and principles of cookery of foods. Two hours of lecture and discussion; six hours of laboratory per week. Prerequisite, Chemistry 1 and 2. Fee \$4.50 per semester. Not offered in 1931-1932.

17. Home Management. First semester. Three credits.

A study of the social aspects of food, shelter, and clothing in relation to the home. Efficient management through a study of household activities. The selection and care of equipment. Budget making based on family incomes and expenditures. No prerequisite. MISS LATHROP

18. The House and its Furnishings. Second semester. Three credits.

Various types of architecture are studied. Selection of a site, criticism of house plans, heating, lighting, plumbing. Selection of artistic and economical furnishings for the home. No prerequisite.

MISS LATHROP

19-20. NUTRITION. Three credits each semester.

The first semester includes the study of digestion and metabolism and adult requirements for energy, protein, mineral elements, and vitamins. The second semester includes infant and child nutrition. Causes and prevention of malnutrition will be emphasized. Individual cases will be studied in schools or clinic. Prerequisite 15-16.

MISS COUNTS

23-24. ELEMENTARY HOME MANAGEMENT. Three credits each semester.

Principles underlying efficient home management. Part of the first semester deals with the selection of foods for health, manufacture and purchase of foods, menu planning, methods of preservation, pure food laws, weights and measures, money value compared with food value, efficiency and cost of fuels and cooking apparatus; Child Care, presented from the viewpoint of prenatal, infant, and pre-school child and as related to mental, moral, and physical development.

The second semester work covers the house, its plan and its care. Economic and sociological phases of dress, textile fabrics, ready-to-wear clothing, methods of shopping, psychology of advertising, and clothing budgets will be considered. Fee, \$1.00 per semester.

This course is open to all women not majoring in Home Economics.

MISS MAXWELL

25de. CHILD CARE. One semester. Three credits.

The principles relating to development of the child through the prenatal, infancy, and pre-school periods. Physical, mental, social, and moral development through each period. Nutritional needs. Factors contributing to child welfare.

MISS MAXWELL

27. FOOD ECONOMICS. First semester. Three credits. A study of the cost of Foods on the market in relation to their quality and food value. Discussions of efficient buying and pure food laws. Two hours of lecture and three hours of laboratory per week. Prerequisite, 15-16. Fee, \$2.50. Not offered in 1931-1932.

28. Advanced Nutrition and Dietetics. Second semester. Three credits.

Dietaries for normal individuals in a family. The studies are detailed for various ages and occupations. Dietaries are planned for family groups, and the importance of diet in the treatment of certain diseases is emphasized. Trays are prepared. One hour of discussion, two or three hours of laboratory per week. Prerequisite, 19-20. Fee, \$2.75. Not offered in 1931-1932.

30. READINGS IN FOODS AND NUTRITION. Second semester. Two credits.

This course includes assignments in recent literature on the progress in Foods and Nutrition research. Reports are both oral and written. Advanced Nutrition and Dietetics should parallel this course. Not offered in 1931-1932.

MISS COUNTS

- 32. Purchasing Foods. Second semester. Three credits. A study of marketing from the standpoint of food purchasing, including production and distribution of food commodities, marketing costs, and factors influencing prices. Field trips are assigned weekly. Fee, \$2.50.

  MISS MAXWELL
- 57. Organic Chemistry. First semester. Three credits. A study of the principal classes of carbon compounds with special emphasis on carbohydrates, fats, and proteins. The laboratory work includes the preparation and analysis of organic compounds. Required of Food and Nutrition majors in Home Economics. Prerequisite, Chemistry 1-2. Two lectures or recitations and three laboratory hours each week. Fee, \$15.00. Given in 1932-1933 and alternate years.
- 58. FOOD CHEMISTRY. Second semester. Three credits. This course includes a study of the chemistry of typical foods from important groups; nervous, muscular, connective, and circulating tissue; salivary, gastric, pancreatic, and intestinal digestion; urine as an excretion of the body. Required of Food and Nutrition majors in Home Economics. Prerequisite, Chemistry 57. Two lectures or recitations and three laboratory hours each week. Fee, \$15.00. Given in 1932-1933 and alternate years.

EVENING COURSES: Pre-School Child Development, Problems of the Household Buyer, Food for Special Occasions, Clothing Selection.

**JOURNALISM** 

LATIN

(See ENGLISH)

(See GREEK and LATIN)

#### **MATHEMATICS**

Professor Jones, Assistant Professors Bender and Selby, Miss Lipscombe, Mrs. Leigh, Miss Goodman

Major: A total of thirty hours (including freshman mathematics) is required for a major.

Minor: Physics is strongly recommended as a minor.

General Final Examination: Students majoring in mathematics are required to pass, in the second semester of their senior year, a general final examination covering all the courses they have taken in the department.

- 1de. College Algebra. Either semester. Four credits. A review of elementary algebra, and a study of surds, linear and non-linear equations, proportion, variation, progressions, mathematical induction, binomial theorem, permutations, and combinations.
- 1e. Sub-Algebra. No credit.
- 20. Business Mathematics. Second semester. Four credits. Principles of arithmetic and algebra are applied to the problems arising in the affairs of the business man and the public official. Computations relating to sales financing, investments, taxation, and public financing are given especial attention. Freshmen must take either this course or Trigonometry for the second semester's work in mathematics. Prerequisite, College Algebra 1.
- 2de. Trigonometry. Second semester. Four credits. Angles and their measurements, the trigonometric functions, fundamental identities, reduction theorems, addition and multiplication theorems, trigonometric equations, the inverse trigonometric functions, the right and oblique triangles, and logarithms. Freshmen must take this course or Business Mathematics.
- 3-4de. Analytic Geometry. Two credits each semester. The first half of the course consists of a study of the straight line, circle, conic sections, and polar curves. The second half includes transformation of co-ordinates, higher algebraic and transcendental curves, and a brief treatment of space co-ordinates and loci. Prerequisite, 1 and 2.
- 5de. DIFFERENTIAL CALCULUS. First semester. Three credits. This course takes up the differentiation of functions of a single variable, maxima and minima, curve tracing, and simple applications to mechanics. Prerequisite, 1 and 2; course 3 must also be taken with course 5.

  MR. BENDER, MR. SELBY
- 6de. Integral Calculus. Second semester. Three credits. General and special methods of integration, definite integral, partial differentiation, and applications to geometry, mechanics, and physics. Prerequisite, 5.

  MR. BENDER, MR. SELBY
- \*7-8. Advanced Calculus. Two credits each semester. The first half of the course deals with partial differentiation, double and triple integrals, development in series, and indeterminate forms. The second half includes such topics as line, surface and space integrals, implicit functions, maxima and minima of functions of several variables, and elliptic and gamma integrals. Prerequisite, 6. Offered in 1931-1932 and alternate years.
- \*9. THEORY OF EQUATIONS. First semester. Three credits. This course takes up topics relating to the solution of equations, such as complex numbers, Newton's and Horner's methods of solving

equations, Stum's functions, determinants, symmetric functions, and elimination. Prerequisite, 5. Offered in 1931-1932 and alternate years.

MR. SELBY

- \*10. HIGHER GEOMETRY. Second semester. Three credits.

  More advanced methods of studying geometrical facts than taken up in courses 3 and 4. Prerequisite, 6. Offered in 1931-1932 and alternate years.

  MR. JONES
- \*11-12. DIFFERENTIAL EQUATIONS. Two credits each semester. The solution of the differential equations which arise in the study of geometry and physics. Prerequisite, 5 and 6. Offered in 1932-1933 and alternate years.

  MR. BENDER
- \*13-14. ASTRONOMY. Two credits each semester. A study of the celestial sphere, astronomical problems, astronomical instruments, the solar system, eclipses, the fixed stars, nebulae, and cosmogony. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.

  MR. JONES
- 15. MATHEMATICS OF INSURANCE. First semester. Three credits. A brief study of probability; laws of mortality; construction and use of life tables; life annuities; premiums, reserves and policy valuations. Prerequisite, 1 and 2. Offered in 1931-1932 and alternate years.

  MR. JONES
- 17. Higher Algebra. First semester. Three credits. Selected topics, such as number theory, convergence, divergence and summation of series, determinants, and continued fractions, are taken up in this course. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.
- 18. HISTORY OF MATHEMATICS. Second semester. Three credits. The history of the invention and development of the notions, language, symbols, and methods of elementary mathematics will be studied in this course. Prerequisite, 1 and 2. Offered in 1930-1931 and alternate years.

  MR. JONES
- 31-57. MATHEMATICS.

Corrses 51-57 inclusive are given only for students in co-operative courses. For description see under Mathematics in the College of Engineering and Commerce.

58. MATHEMATICS OF FINANCE. Second semester. Three credits. The study and solution of problems relating to simple and compound interest, annuities, amortization, bond valuation, sinking funds, and depreciation. Prerequisite, 1. This course is required of Commerce students, but may be taken by other students as an elective.

# MILITARY SCIENCE AND TACTICS (See detailed statement on page 45)

#### MODERN LANGUAGES

PROFESSOR BULGER, ASSISTANT PROFESSOR REED, MISS FANNING, MR. MATURO, MR. KELLEY

Entrance: Candidates for entrance presenting but one year of Modern Language, with a grade of 85%, may take the second year on trial. If the grade was lower than 85%, they must take the first year over, and will receive only half credit for the work.

Credit for college work in Modern Language is indicated by the following

High School credi	Course entered in college  Second year First year	Credit given { Full credit { Half credit
2 units	Second year First year	{ Full credit { No credit
3 units	Third year Second year First year	Full credit Half credit No credit
4 units	{ Third year { Second year	{ Full credit { No credit

Major: The minimum for a major in this department is 24 hours of German, French, or Spanish, including freshman work.

Minor: The required minor of 18 hours will ordinarily be in one or two other foreign languages.

In the case of students who choose a minor, but not a major, in foreign language, a total of 18 hours of foreign language in addition to the freshman requirement shall be regarded as satisfying both the minor and the group-elective requirement in foreign language.

General Final Examination: Majors in this department are required to pass a general final examination at the end of the last semester at the university. This examination covers the material of all courses taken in the department and the content matter of outside readings which are assigned to the student by the head of the department. Such readings are assigned each year, beginning with the sophomore year. The examination is both oral and written.

#### FRENCH

#### Assistant Professor Reed, Miss Fanning

1-2de. Beginning French. Four credits each semester. The work in the first semester includes a thorough study of grammar with special emphasis upon dictation and oral work. In the second semester, work in grammar is continued with the reading of two hundred or more pages of French.

3-4de. Second Year French. Three credits each semester. This course reviews grammar and stresses idioms and irregular verbs. It includes the reading of stories and plays, with a required résumé of each written in French. Prerequisite, 1-2.

5-6de. THIRD YEAR FRENCH: THE FRENCH NOVEL. Three credits each semester.

The work includes the reading and study of eight or nine leading novels of the nineteenth century. Prerequisite, 3-4.

- 7-14. ADVANCED FRENCH. Three credits each semester. This course will be chosen from the following list: 7-8, The French Drama of the 17th Century; 9-10, Modern Literature; 11-12, A Survey of French Literature; 13-14, French Literature of the 18th Century. Prerequisite, 5-6.
- 19-20. French Composition. Two credits each semester. This course is designed to aid the student to attain a facility in the use of practical idiomatic expressions and other stylistic peculiarities. Much time is devoted to the translation of English passages based on French models. Offered in 1931-1932 and alternate years.

#### **SPANISH**

### MISS FANNING, MR. MATURO

- 1-2. Beginning Spanish. Four credits each semester. This course is designed to give intensive training in composition, dictation, conversation, and the reading of simple prose.
- 3-4de. Second Year Spanish. Three credits each semester. This course includes a review of grammar, with dictation, conversation, and the reading of several texts. Prerequisite, 1-2.
- 7-8. The Spanish Drama. Three credits each semester. The first semester includes the study of the Spanish drama of the seventeenth century, followed by the reading of selected plays of the nineteenth century and the present epoch in the second semester. Collateral assignments and reports are required throughout the year, as well as dictation and resumés in Spanish. Prerequisite, 3-4 or the equivalent with a grade not lower than B. Offered in 1931-1932 and alternate years.
- 9-10. THE SPANISH NOVEL. Both semesters. Three credits each semester.

This course includes the reading of Don Quixote and representative works of Spanish novelists of the nineteenth and twentieth centuries. Prerequisite, 3-4, or the equivalent with a grade not lower than B. Offered in 1930-1931 and alternate years.

19-20. Spanish Composition. Two credits each semester. This course is open only to juniors and seniors who are majors or minors in the department of modern languages. Offered in 1932-1933 and alternate years.

#### **GERMAN**

#### PROFESSOR BULGER, MR. KELLEY

- 1-2de. First Year German. Four credits each semester. This course is designed for beginners and consists of grammar and easy readings, with practice in speaking and writing German.
- 3-4. Second Year German. Three credits each semester. In this course a review of grammar is given with advanced readings of prose and verse. Special emphasis is put upon the practice of writing and speaking German. Prerequisite, 1-2.
- 5-14. ADVANCED GERMAN. Three credits each semester. At least one of the following advanced courses will be offered: 7-8, Schiller; 9-10, Goethe; 11-12, History of German Literature; 13-14, Modern Drama; 5, German Daily Life, and 6, The Short Story. Prerequisite 3-4.
- \*54. TEACHING MODERN LANGUAGES. Second semester. Two credits. This course is required of all Modern Language majors who expect to teach. Credit is given in Teachers College and toward the state certificate. No credit is given in the Liberal Arts College. Open to juniors and seniors only. Offered in 1932-1933 and alternate years.
- 5-6e. GERMAN DAILY LIFE. Two credits each semester.

#### MUSIC

(See detailed statement on page 50)

#### PHILOSOPHY

### \*Professor Olin

Major: A combined Philosophy-Psychology major of 24 hours is offered, but no major in Philosophy alone.

General Final Examination: Seniors majoring in Philosophy and Psychology are required to pass a general final examination covering all courses taken in their major subjects.

\*3-4. Ethics. Three credits each semester.

This is a study of the ideals and standards of conduct, the development of the individual life, and the laws of moral progress. Textbooks: MacKenzie and Valentine. Prerequisite, Psychology, 21-22.

<sup>\*</sup> Retired June, 1931.

- \*5-6. Introduction to Philosophy. Three credits each semester. An elementary course in the history and scope of Philosophy, the nature of reality and knowledge, the categories of the understanding, and the relation of consciousness to the external world. Textbook: Fletcher's Introduction to Philosophy. Prerequisite, Psychology 21-22.
- \*7. Problems of Philosophy. First semester. Three credits Prerequisite, 5-6.
- 10. Logic. Second semester. Three credits. Logic deals with the science of reasoning and the methods of research. It should be taken in the sophomore year, but is open to all upper classmen.
- 8-9e. History of Philosophy, Introduction to Philosophy. Three credits each semester.

#### PHYSICAL EDUCATION

PROFESSOR FRED S. SEFTON, Director; ASSISTANT PROFESSOR BLAIR, ASSISTANT PROFESSOR SMITH, MR. LIPPS, MISS DUNCKLEY, DR. ROBART, MISS WASHBURN

All freshman students and all sophomore men are required to take two hours of physical training each week.

The physical education program is based on the progressive system, beginning with the less difficult work in the freshman year and working up to the more highly organized work in the sophomore year.

#### PHYSICAL TRAINING FOR MEN

The men's physical education program is divided into three parts: viz., a Fall outdoor season, a Winter indoor season, and a Spring outdoor season.

The work of the Fall season consists of those sports which are most popular in the Autumn, such as football modified to suit the physical conditions of the students, soccer ball, and speedball. In addition there is a series of efficiency tests aiming to ascertain the muscular ability and coordination of the student.

The Winter indoor program consists of tactics, calisthenics, apparatus work, and the popular indoor sports, such as basketball and volleyball. In addition there are special classes in boxing and in corrective exercise.

The Spring outdoor program consists of special track instruction for the student, the popular spring sports such as baseball, tennis and volleyball, and a series of efficiency tests aiming to ascertain the degree of improvement the student has made during the year.

# PHYSICAL TRAINING FOR WOMEN

There is a similar division in the physical education program for women. During the Fall season the time is given to such outdoor sports as hockey and soccer, leading up to the class tournaments at the close of the season.

From Thanksgiving on is the indoor season, during which class work in the gymnasium and various indoor sports are stressed, and there are class and intra-mural tournaments in basketball and volley-ball.

The Spring season is devoted to such outdoor sports as baseball, track, tennis, and volleyball, ending with class tournaments in baseball

#### COURSES OFFERED

1-2. Physical Training for Freshmen. Two hours a week.

One credit each semester.

A required course for all first year students, men and women.

3-4. Physical Training for Sophomore Men. Two hours a week. One credit each semester.

A required course for all second year men.

Physical Education. Evening Session. No credit.

#### PHYSICS

Professor Householder, Assistant Professor Rollefson, Mr. Fouts

Major: Students majoring in Physics are required to complete a minimum of 32 hours of Physics, 18 hours of Mathematics, and 8 hours of Chemistry. They must also take two years of foreign language, and the following group-electives: 6 hours of Literature or Speech; 6 hours of History, Political Science, or Economics; 6 hours of Psychology or Sociology. German is recommended as the foreign language. The 18-hour requirement in Mathematics includes freshman Algebra and Trigonometry, thus leaving a sufficient number of electives to enable the student so to plan his, or her, course as to obtain the best preparation for future work. Those planning to go into graduate work will want to take more science, while those planning to go into technical work will want to elect some of the more strictly applied courses in the Engineering department. Twenty hours of engineering work may be elected.

Physics 1 and 2 constitute the general introductory course, and are prerequisite to all succeeding courses. This introductory course consists of three lectures per week, supplemented by one period of laboratory work per week. It is an elementary course, open to all students; however, students majoring in other departments are urged to take it in either the freshman or sophomore year.

The general survey courses are followed by Physics 3 to 7 inclusive, which are more advanced and detailed treatments of the separate divisions of physics. These courses are followed by the much more advanced and theoretical courses, Physics 11 to 16 inclusive, which require advanced mathematics and are open

only to students who have had the preceding courses or their equivalent. These courses may be used for graduate credit. Physics 8 to 10 inclusive are described in the list of courses for instruction. Courses 51 to 56 inclusive are more technical in nature, and are given on the co-operative basis for students in the College of Engineering and Commerce.

General Final Examination: The required general final examination covering the major work will be given at the close of the week just preceding the regular final examinations in June of the senior year. Such term papers and laboratory reports as may be required for graduation must be presented and approved before the student is eligible to take the examination, which in itself will be oral.

In order to assist the student in arranging his work, the Physics course is outlined by semesters:

## FRESHMAN YEAR

FRESHMA	N YEAR
First Semester   Cr. Hrs.   Rhetoric 1     3   Human Biology 14   4   4   Physics 1   4   Mathematics 1   4   Physical and Military Training   2	Second Semester   Cr. Hrs.   Rhetoric 2
SOPHOMO	RE YEAR
First Semester         Cr. Hrs.           Physics 3         4           Mathematics 3         2           Mathematics 5         3           German 1         4           Physical and Military Training         2           Electives         2	Second Semester   Cr. Hrs.
JUNIOR	YEAR
Physics 5         First Semester         Cr. Hrs.           Chemistry 1         4           German 3         3           Electives         5 or 6	Second Semester   Cr. Hrs.   4
SENIOR	YEAR
Physics 11	Second Semester   Cr. Hrs.   Physics   12   2   2   Electives   14

1. General Introductory Physics: Mechanics. First semester. Four credits.

Three lectures and one laboratory period per week.

MR. HOUSEHOLDER AND ASSISTANTS

 General Introductory Physics: Heat, Electricity, Magnetism. Second semester. Four credits.

Three lectures and one laboratory period per week.

MR. HOUSEHOLDER AND ASSISTANTS

3. WAVE MOTION, LIGHT, AND SOUND. First semester. Four credits. Two lectures and two laboratory-recitation periods per week.

MR. HOUSEHOLDER AND ASSISTANTS

4. HEAT. Second semester. Four credits.

Two recitations and two laboratory periods per week. MR. FOUTS

5. ELECTRICITY AND MAGNETISM. First semester. Four credits. Two recitations and two laboratory periods per week.

MR. ROLLEFSON

6. ADVANCED ELECTRICITY AND MAGNETISM. Second semester. Four credits.

Two recitations and two laboratory periods per week.

MR. ROLLEFSON

7. LIGHT. First semester. Four credits. Two recitations and two laboratory periods per week.

MR. HOUSEHOLDER

8. ELECTRICAL THEORY OF MATTER. Second semester. Two credits. A review of the experimental evidence that has led to the establishment of the electron theory, with particular reference to conduction through gases and photoelectric phenomena; its development, and its use in explanation of the phenomena of everyday life.

MR. HOUSEHOLDER

9-10. ADVANCED PHYSICAL MEASUREMENTS. Two credits each semester.

This is a laboratory problem course covering the determination of some of the more important physical constants. The work will be of an individual character and will be given to emphasize the art of careful laboratory work.

11-12. Advanced Mechanics. Two credits each semester. Two lectures per week. A mathematical treatment of the subject of dynamics, with special emphasis on the use of the vector analysis. Crew and Smith's Mechanics is used as a textbook.

MR. HOUSEHOLDER

- 21-22. THERMODYNAMICS. Two credits each semester. An advanced treatment of the problems of thermodynamics consisting of two lectures per week. This course will be given in alternate years only. MR. ROLLEFSON
- 23-24. Introduction to Theoretical Physics. Two credits each

A beginning course in mathematical physics to be given alternately with Physics 21 and 22. MR. ROLLEFSON

The following courses are for students in the College of Engineering and Commerce.

51-52. Freshman Mechanics.

Three recitations and four hours of laboratory work per week.

MR. FOUTS AND ASSISTANTS

53-54. Sophomore Mechanics.

Four recitations and four hours of laboratory work per week.

MR. ROLLEFSON AND ASSISTANTS

Three recitations and four hours of laboratory work per week.

56. Wave Motion, Sound, and Light.

Three recitations and four hours of laboratory work per week.

MR. HOUSEHOLDER

EVENING COURSE: General Introductory Physics. Three credits each semester.

#### POLITICAL SCIENCE

Professor Crecraft, Assistant Professor Sherman, Mr. King

Courses in Political Science are offered to meet the following needs: (1) a better understanding of the responsibilities of citizenship and a better comprehension of government as a necessary part of a liberal education; (2) a stimulation of interest in a possible career in public service; and (3) a better preprofessional training for law, teaching, commerce and industry, and journalism.

Students majoring in political science are urged to select, among their free electives, some of the courses offered in the Commerce department, especially the following: Accounting, Statistics, Business Administration, and Elements of Public Finance. For a description of these courses, see the bulletin of the

of Public Finance. For a description of these courses, see the bulletin of the College of Engineering and Commerce.

Major: Twenty-four hours selected from any courses offered by the department exclusive of the freshman required course in Problems of Citizenship.

Minor: Eighteen hours (exclusive of group electives) in one or two departments other than the major department. Selection of minor subjects must be approved by the department.

General Final Examination: Seniors majoring in Political Science are required to take course 27 the first semester, and at some time during the second semester are required to pass a general final examination covering all the work

semester are required to pass a general final examination covering all the work they have taken in the department.

- I. ELEMENTARY COURSES—PRIMARILY FOR FRESHMEN
- 1de. Problems of Citizenship. Either semester. Four credits. A group of selected problems of citizenship with equal emphasis on social, economic, and political phases. An introductory course in political and social science, based on texts, readings, and discussions. Required of all freshmen in the Liberal Arts course. May not be taken to satisfy a major or minor requirement in political science.
- 2. AMERICAN GOVERNMENT. Either semester. Three credits. An introductory survey of the basic principles and the practical administration of the American Government. Although required only of Teachers College and Commerce freshmen, the course may

be taken by Liberal Arts students and be counted toward a major or minor requirement in political science. This is the only elective course in the department open to freshmen.

- 3. Problems of Citizenship. Three credits. For students in the College of Engineering and Commerce.
- II. INTERMEDIATE COURSES—PRIMARILY FOR SOPHOMORES

  At the beginning of his sophomore year all courses in the intermediate group are open to the student.
- 4. Comparative Government. Second semester. Two credits. This course is to introduce the student to the essential features of the government and politics of foreign lands. Open to all upper classmen.

  MR. SHERMAN
- 5-6de. MUNICIPAL GOVERNMENT AND ADMINISTRATION. Three credits each semester.

This course emphasizes municipal government the first semester, and municipal administration the second. Open to all upper classmen.

MR. SHERMAN

7. AMERICAN POLITICAL PARTIES. First semester. Two credits. A general survey of political parties in the United States, including their structure, composition, problems, and services. Open to all upper classmen.

MR. KING

#### III. ADVANCED UNDERGRADUATE COURSES

10de. Elements of Law. Second semester. Two credits. A survey of, and an introduction to, the study of law, covering such topics as kinds of law, personal and property rights, crime, domestic relations, contracts, agency, torts, procedure, and remedies. Offered in 1932-1933 and alternate years.

MR. CRECRAFT

- 14. Public Administration. Second semester. Two credits. This course is intended to give an understanding of the strictly administrative work of the federal and state governments. It is given every other year, alternating with Legislative Procedure. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science. MR. CRECRAFT
- 19. CONSTITUTIONAL LAW. First semester. Three credits. A study of the U. S. Constitution based on the case book method. Text: Evan's Cases on Constitutional Law, Second Edition. Prerequisite, Problems of Citizenship together with another of the intermediate or elementary courses in political science. MR. CRECRAFT
- 20. GOVERNMENT AND BUSINESS. Second semester. Three credits. Government, from the point of view of its relation to business and occupational interests. A general survey of all that government does to promote and control business life. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science, or a course in commerce.

  MR. CRECRAFT

13. GOVERNMENT AND SOCIAL WELFARE. First semester. Three credits.

The part of government in promoting social welfare. A study of the most important legislative, administrative, and judicial measures which have a direct bearing on the care of defective, delinquent, and dependent classes of society. Prerequisite, Problems of Citizenship together with an intermediate course in political science, an elementary course in same, or a course in sociology.

MR. CRECRAFT

- 21. POLITICAL THEORY. First semester. Two credits.

  A study of the content and nature of political thought from the ancients down to the present day. Special emphasis on contemporary theories of government. Prerequisite, Problems of Citizenship together with another of the elementary or intermediate courses in political science.

  MR. KING
- 22. MUNICIPAL CORPORATIONS. Second semester. Two credits. The legal position of the city; relation of city to state; powers, duties, and liabilities of city officers. A case book course in public law. Prerequisite, Problems of Citizenship together with some one additional course in political science from the elementary or intermediate group. This course alternates with Municipal Finance. Offered in 1931-1932 and alternate years.

  MR. CRECRAFT
- 24. Municipal Finance. Second semester. Two credits. A study of municipal taxation, municipal expenditures, and municipal indebtedness, stressing the point of view of financial administration. Prerequisite, Problems of Citizenship together with some one additional course from the elementary or intermediate group. Offered in 1930-1931 and alternate years.

  MR. SHERMAN
- 25-26. International Relations. Three credits each semester. (Course not divisible.)

  The political and legal aspects of international relations, international policies and organization first semester; international law the second. Prerequisite, Problems of Citizenship together with an elementary or intermediate course in political science.

  MR. CRECRAFT
- 27. Senior Seminar. First semester. Three credits. This course is required of all seniors majoring in political science. It is intended to prepare the student for his general final examination in his major subject. Readings, reports, and discussions. The general final examination is given at some time during the second semester.

  MR. CRECRAFT

#### **PSYCHOLOGY**

PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD, ASSISTANT PROFESSOR PACKARD

Major: A combined Philosophy-Psychology major of 24 hours is offered, but no major in Psychology alone.

General Final Examination: Seniors majoring in Philosophy and Psychology are required to pass a general final examination covering all courses taken in their major subjects.

- 21. General Psychology. First semester. Three credits. This is a course to prepare students for a general understanding of the feelings and emotions, motives and reactions, of themselves and their fellow beings, and to prepare them for more advanced and specialized courses.
- 22. APPLIED PSYCHOLOGY. Second semester. Three credits. Applications of psychological principles to human behavior; studies of individual differences and their applications to professional and industrial fields and to individual adjustments; psychological analysis of unsocial conduct and its underlying causes. Prerequisite, 21.

Courses 21 and 22 are required of all students taking a major in Philosophy and Psychology.

- 9. EXPERIMENTAL PSYCHOLOGY. First semester. One credit. Laboratory experimentation in the field of reactions to various sensory stimuli. Prerequisite, 21.
- 10. Experimental Psychology. Second semester. One credit. Continuation of Course 7. Development of technique of experimentation; more complex reactions. Prerequisite, 21.
- 11. EXPERIMENTAL PSYCHOLOGY. First semester. One credit. The measurement of rates of learning, motor learning, learning of mazes. Prerequisite, 21.
- 12. EXPERIMENTAL PSYCHOLOGY. Second semester. One credit. Learning of complex material, foreign language, non-sense material, logical associations. Prerequisite, 21.

Courses 9-10 and 11-12 are of such nature as to prepare for more advanced work in the field, as well as to acquaint the student with the experimental information of the present day.

\*7. PSYCHOLOGY OF PERSONALITY. First semester. Three credits. A study of the nature of personality, the distribution of traits, personality types, the significance of character and intelligence in creating personality, the dynamics of behavior, and the problem of measuring personality. Prerequisite, 22.

MR. WOOD

\*23. Mental Hygiene. First semester. Three credits. The following subjects are studied: the problems of mental hygiene as they affect the individual in industry and business and in his social relations; mental attitudes of the individual, with their psychological basis; the student attitude as a hindrance or an asset to efficient mental effort. Prerequisite, 22.

\*102. Social Psychology. Second semester. Three credits. This is a study of the individual as a member of the social group; individual causes for unsocial conduct; the individual as he affects those of the group; superstitions, taboos, castes, folk ways, and their effects upon developing or inhibiting the activities of the individual. Open only to seniors and graduate students. Prerequisite, 22. MR. HAYES

\*105. Genetic Psychology. First semester. Three credits. The basis of this course is a study of the evolution of mind as we see it evidenced in the various orders. Problems in the comparative intelligence of the various animal levels with the level of human intelligence, and problems of the inheritance of capacities and types of mental reactions, serve as the library problems for investigation. Open only to seniors and graduate students. Prerequisite, 22 and Zoology 1-2. Not offered in 1931-1932. MR. HAYES

THE PSYCHOLOGY OF RELIGION. First semester. **\***114. credits.

A study of the fundamentals of religion under such topics as the nature of religion, religion-individual or social, changing conceptions of religion, moral birth or the achievement of a new self, revivals and their contributions, God and immortality, prayer, mysticism, the Church. Prerequisite, 21-22. Open only to seniors and graduate students. Not offered in 1931-1932. MR. WOOD

R. O. T. C. (See MILITARY TRAINING)

> SOCIOLOGY (See ECONOMICS and SOCIOLOGY)

SPANISH (See MODERN LANGUAGES)

#### SPEECH

PROFESSOR HAYWORTH, ASSISTANT PROFESSOR McNabb, MISS McEbright, MISS DYE

Major: 24 hours including 1 and 3. Students majoring in dramatics are re-

quired to take Stage Costuming given by the Art Department.

General Final Examination: Information regarding the final comprehensive examination which all students majoring in this department must pass in their senior year may be obtained from the head of the department.

1de. Public Speaking. Either semester. Three credits. A general course in practical public speaking.

MR. HAYWORTH, MISS MC EBRIGHT

3. Introduction to Speech Science. Either semester. Three credits.

A study of the psychology and anatomy of the organs used in speech; the cultivation of better habits of speech; a survey of speech correction; English phonetics. Required in Teachers College.

- 9de. Radio Speaking. First semester. Three credits. Practice in speaking over the microphone. Preparing material for broadcasting, including announcing, radio plays, sound effects, advertising, program building and preparation of continuity. Prerequisite, 1 or 3.

  MR. HAYWORTH
- 12. Advanced Public Speaking. Second semester. Three credits. The problem of public speaking is divided into various types of speaking and each is taken up individually, such as speeches of announcement, introduction, welcome, after-dinner speaking, sales talks, inspirational addresses. During the last six weeks the student is allowed, for the most part, to prepare types of speeches he may find most useful. Prerequisite, 1 or 3.

  MR. HAYWORTH
- 13-14. Speech Composition. Two credits each semester. Emphasis is placed on the fine details of speaking, such as speech construction, language, and style. Examples of good speaking will be studied. Prerequisite, 1 or 3. Offered in 1931-1932 and alternate years.

  MR. HAYWORTH
- 17-18. THE ORATION. Three credits each semester.

  A study of the classic masterpieces of oratory. Prerequisite, 1 or 3.

  MISS MC EBRIGHT
- 19. Debate. First semester. One credit.

  A general survey of the principles of argumentation as they are applied to enlightened intercollegiate debating; practice in argumentative speaking; and a survey of the question to be used in intercollegiate debates for the current year.

  MISS DYE
- 21de. STAGECRAFT. First semester. Three credits. The development of the stage, kinds of scenery, methods of production, lighting, scene design, and construction of models.

MR. MC NABB

22. Make-Up. Second semester. Three credits. Thorough knowledge of all kinds of theatrical make-up, and proficiency in the ability to make-up one's self and others is expected. Readings, demonstrations, lectures, and laboratory work.

MR. MC NABB

23-24. ACTING. Three credits each semester. Readings in the principles of acting; the preparation of different types of roles; theory and practice in acting with a cast.

MR. MC NABB

25-26. PLAY WRITING. Two credits each semester. A study of the principles of dramatic composition, and the writing of short plays.

MR. MC NABB

29-30. Seminar. One or two credits each semester. Each student pursues any study acceptable to the instructor. If possible, however, the entire group studies one general problem, a different phase being assigned each member.

MR. MC NABB

32-33de. Interpretation. Three credits each semester. Memorized readings and reading from the printed page. Dialect, humorous, and dramatic readings. Prerequisite, 1 or 3.

MISS MC EBRIGHT

42de. Speech Correction. Second semester. Three credits. A study of the nature and treatment of such functional speech defects as stuttering, lisping, baby talk, foreign accent, and dialect, and of organic defects, such as cleft palate, paretic cases, and malocclusion. Prerequisite, 3.

81-82de. Phonetics. Three credits each semester. A study of the physiology of vocalization and of the sounds used in all languages, together with the laws of phonetic change and the nature of dialectal differences, with attention to modern European languages, and emphasis upon a study of American pronunciation. A graduate course for students of English, Speech, and Modern Languages. The consent of the instructor is required for admission.

MR. HAYWORTH

- 91-92. Public Speaking. For Engineering students only. For description see Engineering and Commerce bulletin and Engineering section of general catalog.
- 2e. Voice-Speech. Two credits each semester.

10e. Business Men's Public Speaking. Two credits each semester.

43e. Speech Correction. Second semester. Three credits.

ELIMINATION OF FOREIGN ACCENT. Evening session. No credit.

11e. Business Women's Public Speaking. Two credits each semester.

#### COMBINATION COURSES

# 1. AT THE UNIVERSITY OF AKRON 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 WESTERN RESERVE UNIVERSITY THE ARTS-LAW COMBINATION COURSE

This course comprises a total of six years, three at the University of Akron and three at the Law School of Western Reserve University. At the end of four years the Bachelor's degree is conferred by the University of Akron for the satisfactory completion of 128 semester hours of work. At the end of six years the student may become a candidate for the degree of Bachelor of Laws at Western Reserve University.

The requirements in Buchtel College of Liberal Arts for the A. B. degree under this plan are: three years' residence; 101 semester hours completed at the University of Akron with an average grade of at least 85%, such work to include all freshman, major, minor and group-elective requirements for the A. B. degree; and sufficient credit from the Law School of Western Reserve University to make a total of 128 semester hours.

# 3. WITH OTHER PROFESSIONAL OR TECHNICAL SCHOOLS

The University of Akron is also willing to give the opportunity for combination courses with other approved professional or technical schools requiring at least three years of Liberal Arts work for entrance. The approval of such courses rests with the dean of Buchtel College and 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 semester hours at the University of Akron, including all required majors, minors, and group-electives; and the completion of a total of 128 semester hours for graduation.

Students are warned against haphazard work in the University of Akron with the idea that a course chosen at random may be combined with any professional school to which their inclination may later direct them. The choice of the school with which the combination is desired should not be delayed beyond the close of the sophomore year. To be considered a candidate for a degree under the plan of combination courses, a student must make all arrangements with the dean of Buchtel College at or before the close of his junior year. The dean and the committee on classification are at all times ready to assist students in making combinations with reputable professional and technical schools.

# COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., Dean

#### GENERAL INFORMATION

The Directors of the 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. In January, 1926, a department of Secretarial Science was created.

Akron is a manufacturing center in whose industries there is a constant demand for men with engineering training who will interest themselves in the problems of factory production and management rather than those of engineering design and construction. In order to furnish such training, the College of Engineering and Commerce offers a course in Industrial Engineering which includes both engineering and commerce subjects.

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 divisions, one of which is at work and the other in attendance at the University. For example, A who is in division A, attends classes at the University for nine weeks while B, who is paired with A and who is in division B, is at work. Then they change places, and B attends the University for nine weeks while A is at work. This necessitates the giving of all university work twice—once for each division.

Five years of eleven months each are required to complete the course. Freshman engineers spend the first semester at the University full time, after which twenty-two weeks of each year are spent in the classroom.

While a student is at work he is subject to all 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 conduct 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 this type of vocational education was selected as being the latest and the one best adapted to the city's needs; therefore no other courses in Engineering are offered.

#### **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 is considered such a vital part of the co-operative program that the student is expected to alternate between his classroom work in college and his practical work in industry according to a prescribed schedule. Any student who has deviated from this schedule without written permission from the Co-ordination Department will not be recommended for a degree.

Each student's work assignment is an individual problem. Scholastic records, work reports, conferences, and shop visits are all utilized by co-ordinators in an effort to give each student the type of practical experience which best suits his particular needs.

While at work, co-operative students are kept in constant touch with the college by means of home study courses, work reports, and co-ordinators' shop visits. The home study courses consist of weekly assignments in engineering problems which preserve continuity in the study habit. Weekly work reports are prepared in diary form and contain a daily account of the student's practical experience. These reports provide a constant check upon the student's progress on his outside employment.

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

#### **WAGES**

The object of requiring outside work is to give the student practical experience and not to enable him to earn money. The student's earnings are not sufficient to pay his expenses. The student is frequently called upon to change practice jobs where the change means a decrease in salary.

Engineering 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, Industrial Engineer, Bachelor of Science in Business Administration, and Bachelor of Science in Secretarial Science, will be granted to those students who satisfactorily complete the required work of the respective courses of study. In addition to his diploma, each co-operative 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 two years to complete the basic course on the co-operative or part-time plan. All freshmen are urged to attend the basic camp at the end of the freshman year and satisfactory arrangements have been made in the summer school for such attendance.

Students pursuing advanced R. O. T. C. are allowed to substitute military training (not over 12 co-operative hours of credit) for courses in the curriculum. These courses shall be selected by a committee composed of the Dean, head of the department in which the student is classified, and the professor of co-ordination.

#### **ADMISSION**

The following supplements the statement of general entrance re-

quirements made on introductory pages.

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.

## ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The requirement for unconditional entrance is 15 units.

The specific requirements for entrance to this college are as follows:

English	Engineering 3 units 2½ units ½ unit	Commerce and Secretarial 3 units 2½ units
American History and Civics	1 unit	<ul><li>1 unit</li><li>1 unit</li><li>2 units</li></ul>
Electives (not more than 3 units in vocational subjects)	7 units	5½ units

#### ENTRANCE REQUIREMENTS FOR TWO-YEAR COURSE IN SECRETARIAL SCIENCE

The specific requirements for entrance to the two-year course in Secretarial Science are as follows:

English		
Geometry	1	unit
or Foreign Language	2	units
U. S. History and Civics		
Science (Physics, Chemistry, or Biology)	1	unit
Electives7 or	8	units

Minimum total credits required ...... 15 units Of the elective units accepted, six units may be in vocational subjects distributed as follows:

If 6 units are offered, at least 4 should be commercial. If 5 units are offered, at least 3 should be commercial. If 4 units are offered, at least 2 should be commercial.

Students enrolled in the two-year Secretarial Course may transfer to other departments of the University with the permission of the University Examiner and the Deans of the respective colleges concerned, but only after all entrance requirements have been satisfied for the course to which transfer is desired.

# ESTIMATED EXPENSE OF FRESHMAN YEAR

#### FIRST SEMESTER

TuitionFees	\$56.00	Non-Resident *\$ 90.00 56.00
Books and Drawing Instruments	40.00	40.00
Total	\$96.00	<b>\$186.00</b>
SECOND SE	MESTER	
TuitionFeesBooks	\$48.50	Non-Resident *\$ 90.00 48.50 8.00
Total	\$56.50	\$146.50
SUMMER S	SESSION	
TuitionFeesBooks	\$ 2,00	Non-Resident \$ 25.00 2.00 5.00
Total	\$ 7.00	\$ 32.00

Board and room can be obtained for approximately \$10 per week. \*The tuition is \$60.00 for co-operative students when attending the University half time.

### DEPARTMENTS OF INSTRUCTION

Letters prefixed to course numbers indicate that these courses are given in the respective colleges or departments as follows:

A.—College of Liberal Arts.
C.—Commerce.
C. E.—Civil Engineering.
E. E.—Electrical Engineering.
M. E.—Mechanical Engineering.
I. E.—Industrial Engineering.
S.—Secretarial Science.

The general arrangement of courses on the following pages is according to this order:

Engineering: Civil Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering, General Courses for Engineering students.

COMMERCE: Business Administration, General Courses for Commerce students.

SECRETARIAL SCIENCE.

MILITARY AND PHYSICAL TRAINING.

Music.

# ENGINEERS' WORK CALENDAR

1931	$\mathbf{s}$	M	$\mathbf{T}$	$\mathbf{w}$	$\mathbf{T}$	F	s	1932	$\mathbf{s}$	M	$\mathbf{T}$	$\mathbf{w}$	T	F	S
APR.					9	10	11		11	12	<b>13</b>	14	15	<b>16</b>	17
	12	13	14	15	16	17	18		18	19	<b>20</b>	21	<b>22</b>	<b>2</b> 3	24
	19	20	21	22	23	24	25		<b>25</b>	<b>26</b>	27	28	<b>29</b>	<b>30</b>	31
				29				NOV.	1	2	3	4	5	6	7
MAY							_		8						14
MAI				13											
				20											
				20 27				DEC.							
*******		20	40	41	40	47	ου	DEC.	49 6	3U 7	6	4	10	11	19
JUNE		1	Z	3	4	10	9		19	11	15	16	17	10	10
	7	8	9	10	11	12	13		5U 19	91	20	33	24	25	26
	14	15	16	17	18	19	20		27	21	20	20	21	20 1	20
								JAN.							
JULY							4	JAN.	1 A	11	19	19	14	15	16
	5	6	7	.8	9	10	11		17	10	10	3V 19	91	33 TO	10
	12	13	14	15	16	17	18		24	25	25	27	21	20	20
				<b>22</b>											
				29				FEB.	31	1					1
AUG.	2	3	4	5	6	7	8		7	8				12	
	9	10	11	12	<b>13</b>	14	15								
	16	17	18	19	<b>2</b> 0	21	22	2512							
	23	24	<b>25</b>	<b>26</b>	27	28	29	MAR.	28	29			_		-
SEPT.	<b>30</b>	31	1	2	3	4	5	,	6	7	8	9	10	11	12
	6	7	8	9	10	11	12		13	14	15	16	17	18	19
	13	14	15	16	<b>17</b>	18	19		20	21	22	23	24	25	26
	20	91	99	99	21	25	26		21	28	29	30	31	- 1	Z
OCT.	27	28	29	<b>30</b>	1	2	3	APR.	3	4	5	6	7	-8	9
				7	8	9	10		10	11	<b>12</b>	<b>13</b>	14		

Dates in light face type indicate work periods for Division B.

Dates in bold face type indicate work periods for Division A.

# CALENDAR FOR CO-OPERATIVE ENGINEERS 1931-32

# Division A

April 13 to July 18, 1931	In Industry
July 20 to August 15	In School
August 17 to September 12	Vacation
September 14 to November 14	In School
November 16 to January 30, 1932.	In Industry
February 1 to March 19	In School
March 21 to March 26	Vacation
March 28 to April 9	In School

# Division B

April 13 to June 13, 1931	In School
June 15 to June 20	Vacation
June 22 to July 18	In School
July 20 to November 14	In Industry
November 16 to December 19	In School
December 21 to January 2, 1932	Vacation
January 4 to January 30	In School
February 1 to April 9	In Industry

# **ENGINEERING**

### OUTLINE OF COURSES FOR FRESHMEN

The freshman courses listed below are the same for all departments of engineering. All freshmen attend the University full time (18 weeks) during the first semester, and half time (9 weeks) during the second semester. The other 9 weeks of the second semester

are spent in engineering practice.

Students entering in February may overtake September freshmen by remaining in class full time for two semesters.

Students will be granted credit for only one summer military camp. This camp should be attended during the summer following the freshman year.

# FRESHMAN YEAR

#### FIRST SEMESTER

	First 9 weeks	Second 9 weeks
	Cr. Hrs.	Cr. Hrs.
Military Training	2	2
Physical Training	1	1
Orientation Co-ord. 1-2		1
Mathematics 51 (no credit first 9 weeks)	(5)*	5
English Composition 80-81	4.	4
Physics 51	4	4
Elementary Engineering Drawing 1-3	2	4
Surveying C. E. 1	3	

#### SECOND SEMESTER

F	irst or Second 9 weeks Cr. Hrs.
Military Training	2
Physical Training	1
Mathematics 52	5
Physics 52	
Projection Drawing M. E. 4	4
English Composition 82	
Co-ordination 22	2

#### SUMMER SESSION

	Hrs.	per	week
Elective		6	
Surveying C. E. 4		14	
Inspection Trips, Co-ordination 71		2	

# CIVIL ENGINEERING

The 22 hours for each Summer Session are equal to 10 semester credit hours (Co-operative basis).

### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

## SOPHOMORE YEAR

SOPHOMO	KE YEAR
First Semester Cr. Hrs. Military Training 2 Physical Training 1 Mathematics 53 4 Physics 53 6- Descriptive Geometry M. E. 8 6 Public Speaking 91 2 Engineering Problems, Co-ord. 31 2  SUMMER	Second Semester   Cr. Hrs.
Structural Drawing C. E. 10	14
Structural Drawing C. E. 10	2
PRE-JUNIO	
First Semester Cr. Hrs.	Second Semester Cr. Hrs.
Chemistry 32 6 6 Mathematics 56 4 Power Plants M. E. 21	Bacteriology 80
SUMMER	SESSION Hrs. per week
Railroads C. E. 20 Reinforced Concrete C. E. 22 Concrete Laboratory C. E. 24 Inspection Trips, Co-ordination 73	10 8 4 2
JUNIOR	YEAR
First Semester Cr. Hrs.  Highways and Airports C. E. 30 5 D. C. Theory E. E. 5 6 D. C. Laboratory E. E. 7 4  Design of Concrete Structures C. E. 26 7  Engineering Problems, Co-ord. 51 2	Second Semester   Cr. Hrs.
SUMMER	SESSION Hrs. per week
Physics 56 Engineering Geology C. E. 32 Inspection Trips, Co-ordination 74 Elective	
SENIOR	YEAR
First Semester Cr. Hrs.	Second Semester Cr. Hrs.
Industrial Engineering I. E. 2	Accounting C. 28 6 Water Supply C. E. 38 6 Economics A. 24 5 Engineering Design C. E. 40 2 English Literature 86 2 Engineering Problems, Co-ord. 64 2

The above courses comprise the subjects required for the Degree of Civil Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

### CIVIL ENGINEERING

## PROFESSOR DURST, ASSISTANT PROFESSOR BULGER

- 1. Surveying. First semester. Three credits.

  Correct use of the tape, level, and transit. A study of compass surveying, computing areas and note keeping. Making of maps and profiles.

  MR. DURST
- 3. ELEMENTS OF STRUCTURAL DESIGN. First semester. Six credits. Stresses in simple roof and bridge trusses are analyzed. The theory of reinforced concrete is illustrated by problems involving the design of slabs, beams, and columns.

  MR. BULGER
- 4. Surveying. Summer session. Fourteen hours per week. Surveying and computation of areas, tests and adjustments of instruments, stadia and plane table work and contour mapping. At least one Polaris observation is made. Most of the work is done away from the campus. Prerequisite, 1.

  MR. DURST
- STRUCTURAL DRAWING. Summer session. Fourteen hours per week.

Students are taught some of the conventional methods of representing structural shapes. Exercises on the detailing of riveted joints, beams, girders, columns and roof trusses. Prerequisite, Descriptive Geometry.

MR. GRIFFIN

12-14. Roofs and Bridges. Six credits first semester; two credits second semester.

The calculation of stresses in several types of roof trusses for dead, snow and wind loads are made analytically and checked by graphics. Stresses are calculated under dead and live loads.

MR. BULGER

- 16. STRENGTH OF MATERIALS. Second semester. Six credits. Classroom work is given in tensile, compressive, and shearing stresses, riveted joints, torsion, bending moments, stresses and deflections of beams. A study is made of end conditions and formulas for columns. Prerequisites, Physics and Calculus.

  MR. BULGER
- 18. MATERIALS LABORATORY. Second semester. Three credits. Steel tests in compression, tension and torsion. Compression tests of brick, concrete, wood, and cast iron. Beams of steel and wood are tested. A 200,000-pound Olsen Universal testing machine, a 100,000-pound Riehle vertical screw testing machine and a 60,000-inch-pound Riehle torsion machine are used. Prerequisite, 16. MR. BULGER
- 20. RAILROADS. Summer session. Ten hours per week.

  An intensive course in railroad construction and surveying. Field and office work in simple, compound, and spiral curves. Text: Searles and Ives. Prerequisite, 4.

  MR. DURST

- 22. Reinforced Concrete. Summer session. Eight hours per week. Instruction in the properties of plain and reinforced concrete, the design of mixtures, and the theory of stresses in reinforced concrete. Practice in the design of beams and columns. Text: Urquhart and O'Rourke. Prerequisite, 16.

  MR. BULGER
- 24. CONCRETE LABORATORY. Summer session. Four hours per week. The standard laboratory tests on cement, sand, and concrete are conducted in accordance with A. S. T. M. standards. Experimental investigations are made. Actual manufacture of cement is studied at a cement plant.

  MR. DURST
- 26. Design of Concrete Structures. First semester. Seven credits.

Practice in designing various concrete structures such as buildings, beam and slab bridges, and retaining walls. Text: Urquhart and O'Rourke. Prerequisite, 22.

MR. BULGER

- 28. Design of Steel Structures. Second semester. Seven credits. Practice in designing and computing costs of steel structures such as mill and office buildings, warehouses, and bridges. Prerequisite, 16. Text: Ketchum's Structural Engineers Hand Book.

  MR. BULGER
- 30. HIGHWAY AND AIRPORTS. Second semester. Five credits. Construction, cost, and advantages of various types of hard surfaced highways. City paving and street designing. Traffic is studied by the use of traffic census. Bituminous material is tested. Airport runways and airport development. Text: Agg's Roads and Pavements, and Government Bulletins.
- 32. Engineering Geology. Summer session. Six hours per week. A survey of dynamic, structural, and economic geology. The relation of geology to the engineer and his work. Classroom work is supplemented by an excellent collection of Ward's minerals, rocks, coals, etc., and by several other collections. Text: Ries and Watson.

  MR. DURST
- 34. Sewerage. First semester. Six credits. The first part of this course takes up sewer design. Each student is required to design a complete sewer system. Sewage disposal is taken up in the second part, including a comparative study of the various types of plants, and the visiting of several plants. Text: Metcalf and Eddy. Prerequisite, Hydraulics, M. E. 75.

36. Engineering Design (Airplane Structures). First semester. Two credits.

MR. DURST

The purpose of this course is to extend the students' knowledge of stress analysis and strength of materials.

MR. BULGER

38. Water Supply. Second semester. Six credits.

After a review of formulæ, methods, and practice, each student is required to design a complete water system. An inspection trip to the Akron Pumping Station and Treatment Plant at Kent is arranged. Text: Babbitt and Doland. Prerequisite, Hydraulics, M. E. 75.

MR. DURS

40. Engineering Design. Second semester. Two credits. Special problems in design are selected. This course gives the student an opportunity to do extra work along the particular line in which he wishes to specialize.

MR. BULGER

Mu1-2e. Surveying. Three hours each semester. No credit.

Mu5-6e. Strength of Materals. Two hours each semester. No

Mu10e. Reinforced Concrete. Second semester. Two hours. No credit.

### ELECTRICAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

#### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

## SOPHOMORE YEAR

SOPHOMO	RE YEAR
First Semester   Cr. Hrs.	Second Semester   Cr. Hrs.
SUMMER	SESSION Hrs. per week
Mathematics 55 Machine Drawing M. E. 14 Mechanical Engineering Laboratory M. E. Inspection Trips, Co-ordination 72	24 10 4 2
PRE-JUNIO	OR YEAR
First Semester Cr. Hrs.	Second Semester   Cr. Hrs.
SUMMER	SESSION Hrs. per week
Physics 56	10 4 6 2
JUNIOR	YEAR
First Semester Cr. Hrs. Adv. Electrical Theory E. E. 11	Second Semester Cr. Hrs.  Economics A. 24

	SESSION	Hrs. per week
Advanced Electrical Theory E. E. 20		8
SENIO	R YEAR	
First Semester Cr. Hrs.	Second Semester	Cr. Hrs.
Thermodynamics M. E. 82 5	Hydraulics M. E. 75	5
Adv. Elec. Theory E. E. 28	Elec. Power Transmission Radio Communication E. E	
Industrial Engineering I. E. 2 6	Special Electrical Probs. E.	
Engineering Problems, Co-ord. 67 2	Accounting C. 28 Engineering Problems, Co-o	

The above courses comprise the subjects required for the Degree of Electrical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

## ELECTRICAL ENGINEERING

## PROFESSOR WALTHER, MR. SMITH

- 5. DIRECT CURRENT THEORY. First semester. Six credits. Elementary electrical engineering. A study of the principles of electricity and magnetism, electric and magnetic circuits, direct current generators and motors, and storage batteries.

  MR. SMITH
- 6. ALTERNATING CURRENT THEORY. Second semester. Six credits. Elementary electrical engineering and a study of alternating electromotive force and current, resistance, inductance, and capacity in alternating current circuits, and the theory of alternating current generators, motors, instruments, and transformers.

  MR. SMITH
- 7. DIRECT CURRENT LABORATORY. First semester. Four credits. This course includes elementary exercises in electricity and magnetism, various practical tests on direct current machines, and supplements the theoretical work given in 5.

  MR. SMITH
- 8. ALTERNATING CURRENT LABORATORY. Second semester. Four credits.

Elementary experimental study of alternating current circuits, and various practical tests on alternating current machines, supplementing the theoretical work given in 6.

MR. SMITH

9-11-12-20-28. Advanced Electrical Theory. First and second semesters and the preceding and intermediate summer terms. Five credits each semester, and four and twelve credits for summer terms.

A continuation of 6. More thorough study of the theory and construction of electrical machines and appliances and a large number of problems.

MR. WALTHER

10-13-14-22. ADVANCED ELECTRICAL LABORATORY. First and second semesters and preceding and following summer terms. Six credits first semester, two credits second semester, six and eight credits for summer terms.

This is a continuation of 8 and includes more advanced experimental study of direct and alternating circuits and equipment, and supplements the theoretical work given in 9-11-12-20.

MR. WALTHER, MR. SMITH

- 41. ELECTRIC POWER TRANSMISSION. Second semester. Three credits. A study of transmission and distribution of electrical power. The economic, mechanical, and electrical principles involved are considered for both underground and overhead systems. Prerequisite, E. E. 28.

  MR. WALTHER
- 45. RADIO COMMUNICATION. Second semester. Four credits. This course covers the theory of medium and high frequency circuits, vacuum tubes and other radio equipment. Two recitations and four hours of laboratory work per week. Prerequisite, E. E. 12.

MR. SMITH

61-62. Special Electrical Problems. Six credits first semester, four credits second semester.

Designed to teach the seniors in electrical engineering to work independently. Special exercises are assigned such as advanced laboratory experiments or design and construction of special equipment.

MR. WALTHER

31-32e. Industrial Electricity. Three hours per week. No credit.

ELEMENTS OF RADIO. Three hours per week. No credit.

### MECHANICAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

## SOPHOMORE YEAR

First Semester	Cr. Hrs.	Second Semester	
Military Training	2	Military Training	
Physical Training	1	Physical Training	
Mathematics 53	4	Mathematics 54	4
Physics 53	6	Physics 54	6
Descriptive Geometry M. E.	8 6	Physics 55	<u>5</u>
Public Speaking 91	2	Public Speaking 92 Engineering Problems, Co-or	2
Engineering Problems, Co-ord	. 31 2	Engineering Problems, Co-or	d. 32 2
	SUMMER	SESSION	Hrs. per week
Mathematics 55			6
Machine Drawing M. E. 14.		,	10
Mechanical Engineering Labor	ratory M. E.	24	4
Inspection Trips, Co-ordinatio	n 72	,	2

## PRE-JUNIOR YEAR

First Semester Cr Mathematics 56 Chemistry 32 Elementary Power Plants M. E. 21 Mechanism M. E. 31 English Literature 85 Engineering Problems, Co-ord. 41	6 5 5	Second Semester Mathematics 57 Chemistry 33 Strength of Materials C. E. Materials Laboratory C. E. English Literature 86 Engineering Problems, Co-or	6 16
Physics 56 Steam Power Plants M. E. 44 Machine Design M. E. 54 Inspection Trips, Co-ordination 73	***************************************		Hrs. per week 10 5 5 2
. <u>J</u>	UNIOR	YEAR	
First Semester Cr Metallurgy 34 Mechanism Drawing M. E. 32 D. C. Electricity E. E. 5 D. C. Laboratory E. E. 7 Economics A. 23 Engineering Problems, Co-ord. 55	3	Second Semester Steam Power Plants M. E. Machine Design M. E. 55 A. C. Electricity E. E. 6 A. C. Laboratory E. E. 8 Economics A. 24 Engineering Problems, Co-or	
Machine Design M. E. 56			Hrs. per week
_	SENIOR		
First Semester Heating & Ventilating M. E. 71 Thermodynamics M. E. 82 Industrial Engineering I. E. 2 Elective 5 Engineering Problems, Co-ord. 65	4 5 6 to 7	Second Semester Hydraulics M. E. 75 Special Problems M. E. 88 Gas and Oil Engines M. E. Accounting C. 28 Engineering Problems, Co-or	38 5 d. 66 2
The above courses comprise the	subjects r	equired for the Degree of M	echanical En-

The above courses comprise the subjects required for the Degree of Mechanical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

## MECHANICAL ENGINEERING

PROFESSOR GRIFFIN, ASSISTANT PROFESSOR UPP, MR. WILSON

- 1 and 3. ELEMENTARY ENGINEERING DRAWING. First semester.
  Two credits first nine weeks, four credits second nine weeks.
  This course trains the student in freehand sketching, lettering, and mechanical drawing. Special attention is given to the use and care of drawing instruments.

  MR. GRIFFIN, MR. WILSON
- 4. Projection Drawing. Second semester. Four credits. The representation of objects by showing the proper views. Assigned problems in orthographic projection, isometric, and oblique drawing, and the conventional methods of drawing bolts, nuts, and screw threads.

  MR. GRIFFIN, MR. WILSON
- 8. Descriptive Geometry. First semester. Six credits. The fundamental theory and the solution of problems concerning the graphical representation of points, lines, planes and surfaces. Prerequisites, 1, 3 and 4.

  MR. WILSON

- 9. Descriptive Geometry. Second semester. Two credits. This course, a continuation of 8, consists of the graphical solution of practical problems pertaining to surfaces and solids.

  MR. WILSON
- 14. Machine Drawing. Summer session. Ten hours per week. Modern drafting-room methods of making machine drawings. Students make freehand sketches of machine parts, detail and assembly drawings, tracings, and blue prints. Prerequisite, Drawing 1, 3, and 4.

  MR. GRIFFIN, MR. WILSON
- 21. ELEMENTARY POWER PLANTS. First semester. Five credits. A survey of the fundamental theory and design of some of the important power producing units such as steam boilers, steam, gas and oil engines, and their accessories. Prerequisite, Mathematics 52 and Physics 52.

  MR. GRIFFIN
- 24. MECHANICAL ENGINEERING LABORATORY. Summer session.
  Four credits.
  The collibration and the use of instruments and apparatus such as

The calibration and the use of instruments and apparatus such as pressure and vacuum gauges, thermometers, steam and gas engine indicators and oil testing apparatus.

MR. UPP

31. MECHANISM. First semester. Five credits. Various means of transmitting and modifying machine motions and the determination of the relative displacement, velocity, and acceleration of different machine parts. Prerequisite, Mathematics 54.

- 32. MECHANISM DRAWING. First semester. Two credits. Students make layout drawings of various methods of transmitting and modifying motion by means of links, cams, gears, and other common machine parts. Prerequisite M. E. 31.

  MR. UPP
- 38. Gas and Oil Engines. Second semester. Five credits. Fundamentals involved in the theory, design, and operation of internal combustion engines are studied. Special attention to automotive, airplane, and oil engines. Prerequisite, M. E. 82. MR. UPP
- 44-45-46. Steam Power Plants. Summer session and first and second semesters. Five credits each for summer session and first semester; three credits for second semester.

Combustion, steam boilers, properties of steam, and methods of burning coal and oil are studied during the summer and the first semester. In the second semester a study is made of steam engines, steam turbines, and their accessories with some laboratory exercises.

MR. UPP

54-55. Machine Design. Summer session and second semester. Five credits for summer session and four credits for second semester.

Fundamental principles involved in the design and operation of machinery, with problems on the design of riveted joints, keys and shafting, belting, chains and sprockets, gears, bearings, couplings, and other machine parts. Prerequisite, C. E. 16.

MR. WILSON

56. MACHINE DESIGN. Summer session. Twelve hours per week. In this course the student applies the theory taught in 54-55 and makes a complete design and drawing of an assigned machine.

MR. GRIFFIN, MR. WILSON

61-62. MECHANICAL ENGINEERING LABORATORY. Summer session and first semester. Eight credits for summer session and two credits for first semester.

The work in the summer consists of tests on internal combustion engines and the use of the electric dynamometer. Experimental work in the first semester is devoted to hydraulics, steam engine and steam turbine tests, and the operation of accessories.

MR. UPP

- 71. HEATING AND VENTILATING. First semester. Four credits. This course presents the fundamental principles which apply in various systems of heating and ventilation and the methods of their construction.

  MR. GRIFFIN
- 75. Hydraulics. Second semester. Five credits. Some topics studied are water pressure, stability of simple structures subjected to water pressure, the flow of water and its measurement and the fundamental principles of water pumps and motors. Prerequisite, Mathematics 54 and Physics 54.

  MR. GRIFFIN
- 82. Thermodynamics. First semester. Five credits.

  Transformation of heat into mechanical energy is studied with special reference to steam boilers, engines and turbines, internal combustion engines and refrigerating systems. Prerequisite, Mathematics 57, Physics 55 and M. E. 45.
- 88. Special Mechanical Engineering Problems. Second semester. Five credits.

Each student works out a design or laboratory problem under supervision. The student is required to turn over to the department all data, drawings, etc., in the form of an engineering report.

MR. GRIFFIN, MR. UPP

- 1-2e. Engineering Drawing. Three hours a week. No credit.
- 12-13e. Machine Drawing. Three hours a week. No credit.

# INDUSTRIAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

## SOPHOMORE YEAR

The above courses comprise the subjects required for the Degree of Industrial Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

### THE UNIVERSITY OF AKRON

### INDUSTRIAL ENGINEERING

### PROFESSOR ADENDORFF

- 1. Production Methods. Second semester. Six credits. Modern production methods of the woodshop, foundry, and machine shop are developed. Textbook used.
- 2. Industrial Engineering. First semester. Six credits. A brief history of industry leading up to the period of mass production and the development of aggregation, standardization, specialization and the division of labor. The scientific management movement. Fundamentals of industrial organization. Wage systems and bonus payments, management control, labor turnover, office management, administrative principles, sales engineering. Textbook used.
- 3. Production Methods. Second semester. Three credits. Modern production methods more especially relating to the rubber industry. Time, motion study and production problems.
- 4. Personnel Relations. Second semester. Three credits. This course is designed to consider the problems of the personnel department in industry. Textbook used.
- 5de. Industrial Management Problems. First semester. Three credits.

Industrial problems relative to plant, buildings, equipment, materials, organization, labor, wages, production control, quality control and co-ordination.

- 6. Human Engineering. First semester. Three credits. A course helping the student to know and understand his own values, and to give a scientific basis for selecting men and women for vocations. Lectures and recitations on executive ability, personal power, effective effort, stimulating and controlling others, personality, art in management, discipline, the executive's adaptability, coloration. Textbook used.
- 7. Industrial Engineering Seminar. Second semester. Two credits.

This course takes up a study of industrial engineering publications and the writing and discussion of papers on allied subjects.

### GENERAL COURSES FOR ENGINEERING STUDENTS

The letter C prefixed to a course number indicates that the course is given in the Commerce Department; M. E., C. E., E. E., and I. E., in Mechanical, Civil, Electrical and Industrial Engineering Departments; A, in the Liberal Arts college; e, in the Evening Session; de, in both day and evening sessions.

#### BIOLOGY

### Assistant Professor Fox

80. Bacteriology and Sanitation. Second semester. Three credits.

A study of micro-organisms and their specific relations to the engineer and his problems. Water purification and sewage reduction receive special attention. Sufficient laboratory work is given to enable the student to solve problems of a practical nature.

## **CHEMISTRY**

#### Assistant Professor Schaefer

- 32. Engineering Chemistry. First semester. Six credits. Substances and properties, chemical change, combining proportions, atomic theory, valence, water, molecular weights, energy and chemical change, chemical equilibrium, acids, bases and salts and ionization. Laboratory work consists of experiments in these subjects.
- 33. Engineering Chemistry. Second semester. Six credits. The second semester is a continuation of 32. Practically the entire semester is devoted to a study of solid, liquid and gaseous fuels, their use, efficiencies and the thermo chemistry of combustion. Attention is given to the combustion of coal. Laboratory work consists of the analysis of industrial gases and the determination of the calorific value of fuels.
- 34. METALLURGY OF IRON AND STEEL. First semester. Six credits. Recitations and lectures on the manufacture, properties and the uses of iron and steel. Laboratory work in heat-treating of steel and microscopic examination of metals and alloys. The steel and non-ferrous alloy requirements of the aircraft industry are studied.

## CO-ORDINATION

Courses 22-68, inclusive, are home study courses. During each working period, engineering students are given weekly assignments consisting of practical problems in mathematics, physics, economics and English as well as special problems in their particular fields.

1-2. ORIENTATION. First semester. One credit.

This course helps the entering student to decide what branch of engineering he wants. Lectures by prominent engineers are alternated with the showing of industrial pictures.

MR. GILMOUR

- 22. MECHANICS PROBLEMS. Second semester. Two credits.

  Trigonometry is applied to practical problems in mechanics. Review is given in the resolution and composition of forces and velocities. Prerequisites, Mathematics 51 and Physics 51.

  MR. GILMOUR
- 31-32. Mathematics and Physics Problems. Two credits each semester.

The problems in these courses involve trigonometry, algebra, concurrent and non-concurrent forces, and center of gravity. Prerequisite, Mathematics 52-53, and Physics 52-53.

MR. GILMOUR

- 41-42. Selected Readings. Two credits each semester. Weekly assignments are given in reading from a selected list of books of varied content. The course broadens the point of view of the engineering student.

  MISS RAW
- 51-52. Engineering Problems. Two credits each semester. Problems which review the work given in C. E. 16 and C. E. 26, and which also illustrate topics not taken up in those courses. Prerequisite, Mathematics 56, Physics 54, and C. E. 16. MR. BULGER
- 53-54. Electrical Engineering Problems. Two credits each semester.

A reading course with suitable problems such as electric wiring, telephone practice, armature winding, etc., intended for students in electrical engineering who have completed E. E. 5. MR. WALTHER

- 55-56. Special M. E. Problems. Two credits each semester. This course consists of problems in applied mechanics and mechanism. Prerequisites, M. E. 21, and M. E. 31.

  MR. UPP
- 57. INDUSTRIAL ENGINEERING PROBLEMS. First semester. Two credits.

The student is given a series of problems as to labor in industry and merchandising for the purpose of determining guiding factors in dealing with such problems.

MR. ADENDORFF

58. INDUSTRIAL ENGINEERING PROBLEMS. Second semester. Two credits.

The student is given problems relating directly to the personnel department of an industry so as to familiarize him with some of the internal conditions met with in industry.

MR. ADENDORFF

61-64. ADVANCED C. E. PROBLEMS. Two credits each semester. For civil engineering seniors. Short problems are given in such subjects as concrete design, sewerage, and structural design.

MR. DURST

65-66. Advanced M. E. Problems. Two credits each semester. For mechanical engineering seniors. A series of problems relating to steam power plant engineering and machine design.

MR. UPP

67-68. ELECTRICAL ENGINEERING PROBLEMS. Two credits each semester.

Open only to electrical engineering seniors. The student makes a thorough study of some application of electrical engineering according to his selection, and submits a comprehensive report in the nature of a thesis each semester.

MR. WALTHER

71-72-73-74. Inspection Trips. Summer session. Two credits. These trips include visits to prominent industries in Akron and adjacent cities such as Barberton, Massillon, Canton, and Cleveland. The student is required to provide his own transportation and must submit comprehensive written reports.

MR. DURST, MR. GRIFFIN, MR. WALTHER

#### **ECONOMICS**

#### Assistant Professor Anthony

A.23-24. Economics for Engineers. Five co-operative credits each semester.

The basic principles of economics. Production, consumption, distribution, money and credit, transportation and trade, and some modern economic problems.

### **ENGLISH**

## MISS RAW, MISS STEVENSON

80-81. English Composition. Either semester. Four credits each nine weeks.

Practice is given in writing technical descriptions, explanations, and professional letters, and in informal argumentation. Correctness in sentence structure, punctuation, and spelling is insisted upon. Outside reading.

- 82. English Composition. Either semester. Four credits. Steady practice is given in report writing and longer technical articles. A brief survey in literature. Outside reading.
- 83-84. English Literature. Summer session. Six credits each term.

Essays on the contemporary thought and modern short stories are studied for their scientific, cultural, and recreational value. Supplementary reading. Courses given alternate summers. Prerequisite, 82.

85-86. English Literature. Two credits each semester. The development of the novel since 1890. The lives and works of modern realists are studied. Supplementary reading. Prerequisite, 82.

87. English Composition. Second semester. Three credits. A course in advanced composition, business letters, abstracts, engineering reports, and articles for technical publication. Prerequisite, 82.

## **MATHEMATICS**

PROFESSOR JONES, ASSISTANT PROFESSOR BENDER, ASSISTANT PROFESSOR SELBY, MISS LIPSCOMBE, MRS. LEIGH

51. Trigonometry. Five credits each semester.

Angles and their measurements; the trigonometric function; fundamental identities; reduction, addition and multiplication theorems; trigonometric equations; inverse trigonometric functions; logar-

ithms; right and oblique triangles.

MR. BENDER, MR. SELBY, MISS LIPSCOMBE, MRS. LEIGH

52. Algebra. Five credits each semester.

This course includes a review of elementary algebra, and takes up the study of surds, linear and non-linear equations, proportions, variation, progressions, binomial theorem, permutations and combinations.

MR. BENDER, MR. SELBY, MISS LIPSCOMBE, MRS. LEIGH

- 53. ANALYTIC GEOMETRY. First semester. Four credits. This course takes up such topics as loci, the straight line, circle, conic sections, polar curves, transformation of co-ordinates, parametric curves, and a few facts concerning space loci. Prerequisite, 51-52.

  MR. BENDER, MR. SELBY
- 54. DIFFERENTIAL CALCULUS. Second semester. Four credits. Average and instantaneous rates, the differentiation of the ordinary algebraic and transcendental functions, implicit functions, differentials, maxima and minima, and applications to geometry and physics. Prerequisite, 53.

  MR. BENDER, MR. SELBY
- 55. Integral Calculus. Summer session. Six credits. In this course the technique of the integration of the functions usually found in the applications of the calculus to geometry, physics, and engineering is developed. Prerequisite, 54.

  MR. JONES
- 56-57. Integral Calculus. Four credits each semester. Development in series, partial differentiation, double and triple integrals, applications to finding length of arcs, areas, volumes, center of gravity, pressure, moment of inertia, radius of gyration, work, motion, also applications to engineering problems, solution of simple differential equations, derivation of formulas. Prerequisite, 55.

MR. JONES

#### PHYSICS

Professor Householder, Assistant Professor Rollefson, Mr. Fouts.

51. Freshman Mechanics. Either semester for co-operative students. Four credits. (Eight co-operative hours.)

An elementary course in statics including the study of forces in equilibrium, frictional forces, work, power and energy, and the elements of hydrostatics. No student is permitted to enter this course unless he has had, or is taking, freshman mathematics, and no one failing in the first semester of mathematics will be allowed to continue this course. Two recitations and two two-hour laboratory periods weekly.

MR. HOUSEHOLDER

52. FRESHMAN MECHANICS. Second semester. Five credits. An intensive review of the principles of equilibrium and their application to problems involving simple trusses and hoisting devices and the study of friction, work, energy, power, and related topics. Prerequisite, Physics 51 and Trigonometry. Three recitations and two two-hour laboratory periods per week.

MR. FOUTS

53-54. Sophomore Mechanics. Six credits each semester. A continuation of Physics 51 covering translatory and rotatory motion with the effect of forces and torques in producing them, moment of inertia, elasticity, vibratory motion. Kinematics, kinetics, moment of inertia, elasticity, simple harmonic motion, sound, magnetism and electricity. Students must have completed Physics 52 and have had or be taking the calculus. Four recitations and two two-hour laboratory periods per week.

55. Heat. First semester. Five credits.

The fundamental concepts of the theory of heat and its measurements, with special emphasis on their applications in engineering. Three recitations and two two-hour laboratory periods per week. Prerequisites, Physics 53.

MR. FOUTS

 WAVE MOTION, LIGHT, AND SOUND. Second semester. Five credits.

An elementary course in wave motion and its applications to the study of sound and light. Particular emphasis is put upon the engineering phase of the subject. Prerequisite, Physics 54. Three recitations and four hours' laboratory work per week.

MR. HOUSEHOLDER

#### **SPEECH**

91-92. Public Speaking. Two credits each semester.

A course in practical public speaking, including some textbook study, some written work, and considerable impromptu and extempore speaking.

MR. HAYWORTH

13

12

## COMMERCE

### BUSINESS ADMINISTRATION

The Department of Commerce offers professional training to young men and women who plan to enter the fields of industry, trade, or transportation. The course in Business Administration aims to develop and apply those general fundamentals of economics and administration which are common to all businesses. The University of Akron, being situated in a great industrial and trade area, is particularly qualified to offer training in the fields of accounting, finance, management, marketing, advertising, and merchandising. By means of inspection trips, field problems, and lectures on business, the student is kept in touch with the actual developments in these various departments of commerce.

Completion of the Business Administration course requires four years of academic work and eighteen weeks, or the equivalent, of supervised employment. During his course of training the student will spend nine weeks in industrial work and a second period of nine weeks, following the junior year, in the field of the student's specialty. For example, those choosing accounting for a major will be employed at accounting work. During each of these work periods the student will be guided and instructed by his instructors and at the conclusion of each period he will submit reports covering his experiences. Students may select their own employment in so far as it meets the approval of the department staff. All earnings from the work will, of course, go to the student.

## GRADUATION AND DEGREE

Candidates for graduation must present 128 credit hours with the required number of quality points. All students are also required to submit two experience reports, covering their business employment, and a senior thesis upon some specially assigned subject or business problem which will be developed in the seminar course which each senior takes in the field of his major interest.

The degree of Bachelor of Science in Business Administration will be granted to those students who satisfactorily complete the prescribed course in Business Administration.

The following requirements are outlined by years for the student's

convenience:	
FRESHMAN	J YEAR*
Froblems in Citizenship or Modern	Second Semester   Cr. Hrs.
SOPHOMOR	RE YEAR
First Semester Cr. Hrs. Chemistry, Physics, or Biology 4 Economics A. 1 3 Accounting C. 23 3 Business Administration C. 61 3 Military Training 1 Physical Training 1 *Accounting majors should take Accounting this point.	Second Semester   Cr. Hrs.
JUNIOR	YEAR
English Literature 3 Statistics C. 57 4 Business Law C. 41 2	Second Semester   Cr. Hrs.
SENIOR	YEAR
	Second Semester Cr. Hrs. Government and Business A. 20 3 Seminar in Major Subject
If Modern Language is elected, it must be	taken in both semesters. In addition to

the eight hours listed, six additional hours of the same language must be taken to secure credit toward graduation.

Electives consist of three classes: Electives in the Major, Commerce Electives, and General Electives. Electives in the Major, amounting to 14 credit hours, including Seminar, are to be elected by the student from one of the various Majors. Commerce electives, amounting to 6 credit hours, may be selected from any of the major fields or any advanced course given within the department. General electives, amounting to 10 credit hours, may be elected by the students in any department within the University, provided such electives would be acceptable in the Liberal Arts College toward a degree.

## OPTIONAL MAJORS IN COMMERCE

In order to enable students to elect advanced and intensive courses in one of the major fields of Commerce, several Optional Majors in Commerce have been outlined.

These majors are planned to give the students working knowledge in some special branch for which there exists a demand for men with intensive and professionalized training. It is not the aim of the University to finish students in these lines of endeavor, but rather to prepare them with a wide general and thorough knowledge of these fields upon which they can surmount actual experience and further study at first-hand in the school of actual business.

Five fields of specialization are available to the students in Commerce, namely, Accounting, Finance, General Business, Industrial Management, and Marketing and Advertising. At the beginning of the Junior year, after each student has two years' work mainly in the cultural, factual, and elementary business administration courses, he will be requested to elect a field of specialization. The election of a major at the commencement of the Junior year enables the student to direct his energies more effectively during that year and to begin intensive work in his chosen field.

The courses required for or accreditable toward each major are outlined. Each student will select 14 hours of credit, including two credit hours for Seminar, from one of the listed majors:

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ACCOU	NTING MAJOR	1
Courses Accounting 31 and 32 Cost Accounting 33 Advanced Cost Accounting 34 Auditing 35-36 Income Tax 40 Accounting Seminar 122	Credit Hours 6 3 3 6 6 3 2	Prerequisites Accounting 21 and 22 Accounting 21 and 22 Cost Accounting 33 Accounting 31 and 32 Auditing 35
	NCE MAJOR	
Courses Security Market 74 Investments A. 6 Public Finance 76 Insurance Banking Practice	Credit Hours 3 3 3 3 3 3 3 3 3 3	Prerequisites Economics 2 A. 10 and C. 73 C. 73 Economics 2 A. 10
Problems in Finance 78 Finance Seminar 172	3	A. 10 and C. 73
ADVERTISING A	ND MARKETIN	IG MAIOR
Courses Sales Administration 86 Salesmanship 83e Retailing 88e Marketing 81 Advertising Campaigns 94 Consumers Demand 85 Commercial Art A. 14-15 Marketing Seminar 182	Credit Hours 3 2 2 3 3 3 3 4 4 2	Prerequisites C. 81 Sophomore C. 81 Economics 2 C. 92 C. 81
_	EMENT MAJO	
Courses Cost Accounting 33 Purchasing 95e Production Methods I. E. 3 Personnel Management 64 Industrial Management Problems I. E. 5 Management Seminar 162	Credit Hours 3 2 3 3 3 2 2	Prerequisites 9 hours Accounting C. 61 C. 61 C. 61 Production Methods
GENERAL 1	BUSINESS MA	JOR
Courses Cost Accounting 33 Purchasing 95e Problems in Finance 78 Advanced Statistics 58 Sales Administration 86 Personnel Management 64 Transportation 53 General Business Seminar 141	Credit Hours	Prerequisites 9 hours Accounting Economics 2 C. 73 C. 57 C. 81 C. 61 Economics 2

## **COMMERCE**

Professor Leigh, Assistant Professors Anthony and McKee, Mr. Van Metre, Mr. Tinklepaugh, Mr. Park

SPECIAL LECTURERS: E. J. Thomas, Assistant Factory Manager, Goodyear Tire & Rubber Co.; R. R. Gross, Works Manager, Firestone Tire & Rubber Co.; B. H. Hollinger, Comptroller, Firestone Tire & Rubber Co.; S. B. Kramer, Production Control Department, Goodyear Tire & Rubber Co.; C. F. Marshall, Purchasing Agent, The Seiberling Tire & Rubber Co.; J. P. Woodlock, Specialized Sales Department, The B. F. Goodrich Company.

1. Plant Trips. First semester. One credit.

In order to give entering Commerce students a familiarity with organization and operation of trade and industry, a series of visitations is made to representative industries. Outline studies are made and special reports prepared.

- 3. INDUSTRIAL STUDIES. Summer. No credit.
  All students during the summer following the freshman or sophomore years will work nine weeks in industry. In order to be guided and directed during this practice period, they will submit special investigations and an experience report covering the outlines which will
- 4. JUNIOR INDUSTRIAL STUDIES. Summer. No credit. During the summer following the junior year, all Business Administration students will be required to secure employment for a period of at least nine weeks in the field of their major interest. Special investigations and an experience report will be required.
- \*12. Economic History of the United States. Either semester.
  Three credits.

A short study is made of those features in England which have influenced the industrial life in the United States. Exploration and settlement, land policies, population growth, growth of commerce, crises, industrial combination, development of banking institutions and railroad systems, tariff, labor unions, and government regulation. Required of all Commerce students.

MR. ANTHONY

- \* 14. Economic Geography. Second semester. Three credits.

  This introductory course develops a conception of environmental elements such as climate, land forms, soils, mineral resources, and vegetation, and shows their influence upon economic activity. It analyzes physical factors which constitute the basis of trade, population movements, and international strife. Required of all Commerce students.

  MR. VAN METRE
- \*21-22de. Accounting. Three credits each semester.

  The details of business records. Recording of important transactions such as the acquisition of assets and their depreciation, incurring of expenses, and making purchases and sales, are considered. The balance sheet and statement of profit and loss, their construction, and use. Required of all Commerce sophomores.

MR. MCKEE, AND OTHERS

23de. Managerial Accounting. First semester. Three credits. This course summarizes, develops and analyzes accounting procedure. Financial statements are studied intensively. The general purpose is to develop a concise working knowledge of more advanced accounting used by production, sales and administrative executives in determining administrative, credit, and expansion policies. Prerequisite, Accounting 31.

MR. MCKEE, AND OTHERS

\* but a AB

be given.

28. Accounting. First semester. Six co-operative credits. This course, for advanced engineering students, covers the forms used by a foreman or a superintendent in a factory and enables the engineer to interpret such forms as profit and loss statements, balance sheets, production statements and store records.

MR. MCKEE, AND OTHERS

31-32de. Accounting. Three credits each semester. This is a continuation of 21-22 which is a prerequisite. In addition to the text, graded problems are used to illustrate the balance sheet and the profit and loss statement, analysis of profits, application of funds, capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc.

MR. MCKEI

- 33de. Cost Accounting. First semester. Three credits.

  Designed to give an insight into general methods of collecting costs of materials, labor, and burden of incorporating them into the books of account; various methods of distributing burden costs and methods of cost control. Prerequisite, 32.

  MR. MCKEE
- An intensive course in cost accounting. The student is led into the particular processes of cost technique and detail. Investigations and surveys are made, particular industries and the systems are designed and cost rates and budgets are adapted to these industries. Given in alternate years. Prerequisite 33.
- J 35de. AUDITING. First semester. Three credits. Elementary problems of auditing, the preparation of accounts, the examination of the books of account, the nature of audits, and the general method of procedure. A complete audit is undertaken step by step and a report is constructed. Prerequisite, 32. MR. MCKEE
- Jac. Advanced Auditing. Second semester. Three credits. Investigations are made of special branches of industry such as banks, municipalities and public utilities. The specific details of audits are elaborated with a view of fully equipping the student with the modern methods of audit procedure and analysis. Given alternate years. Prerequisite, 135.

  MR. MCKEE
- J 37-38e. Accounting Problems. Three credits each semester. Designed for students who intend to enter the accounting profession. Problems cover such topics as partnerships, corporations, executors, trustees, consolidated statements, capital requirements and actuarial science. Open to seniors and to others with the consent of the instructor. Prerequisite, 31-32.

  MR. MCKEE

MR. VAN METRE

140

and alternate years.

**‡39.** Accounting Systems. First semester. Three credits.

Accounting problems of wholesalers, automobile companies, industries, clubs, etc. Actual accounting systems are devised. The course is designed for accounting majors and presupposes a thorough background in accounting.

MR. MCKEE

1100ME TAX. Second semester. Three credits.

This course acquaints the student with the history, laws, and administration of the Income Tax regulations and decisions. The law is applied to specific problems and income tax returns are made and filed.

MR. MCKEE

122. ACCOUNTING SEMINAR. Second semester. Maximum two

Required of all students qualifying for degrees with a major in accounting. Each student makes a thorough study of some problem approved by the faculty. Credit is dependent upon the quality of work done.

\* 41-42de. Business Law. Two credits each semester.

The origin of commercial law, the operation and discharge of contracts, the law of sales, agency, and negotiable instruments, partnerships and corporations are studied, giving attention to the statutes which form the working machinery for economic activity. Open to Commerce sophomores and to others with the consent of the instructor.

MR. PARK

1 53. Transportation. First semester. Three credits. The American transportation system from the points of view of the economist, the shipping public, and the transportation administrator. The part played by transportation in the production, exchange and distribution of wealth, service, rate making, valuation, and federal regulation. Prerequisite, Principles of Economics. Given in 1932-33

55. RISK BEARING AND INSURANCE. Second semester. Three credits. The risks in our economic order, and the methods, devices, and institutions which deal with them. Special attention to the risk bearing activities of such institutions as speculative exchanges and insurance companies. Insurance is emphasized. Prerequisite, Principles of Economics. Given in 1932-33 and alternate years.

7. Statistics. First semester. Four credits.

The student is taught to apply the scientific method to business and social problems. Emphasis is on the use of surveys, accounting, analyses, group tests, and statistical data. Prerequisite, Principles

of Economics. Given in 1931-32 and alternate years. MR. VAN METRE

58. Advanced Statistics. Second semester. Three credit hours. A brief summary of the work covered in 57 is followed by advanced work on index numbers of prices and physical volume, measure-

ment of trend, linear, multiple and partial correlation, analysis of time series, and probabilities and normal error. Each student works on a special statistical problem. Given in 1931-32 and alternate years.

MR. VAN METRE

 General Business Seminar. Second semester. Maximum, two credits.

This course is required of all students qualifying for degrees with a major in General Business. Each student is required to make a thorugh study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

- 61de. Business Administration. First semester. Three credits. A survey course in which the business establishment is considered as a unified concern composed of various departments such as finance, production, distribution, and accounting. The managerial viewpoint is taken throughout. Class work is supplemented by problems and trips. Required of all Commerce sophomores. MR. LEIGH
- 162de. Business Management. Second semester. Three credits. The problems of management in delegating authority and coordinating activities, standardization, determination of administrative, sales, production, personnel and financial policies, and administrative control and executive leadership. Problems and case studies. Prerequisite, 61.

  MR. LEIGH
  - 164. Personnel Management. Second semester. Three credits. This course covers job analysis, selection and maintenance of a labor supply, placement and promotion, elimination of risks, co-operation between employers and employees, and employee participations in ownership or management. Prerequisite, 61. Given in 1931-32 and alternate years.
  - 68. Problems in Business Policy. Second semester. Three credits. A problem course in management policies, dealing with organization, plant expansion, labor, control and distribution policies. The problems are drawn from real business situations and are aimed to make the student exercise initiative and resourcefulness. Required of all Commerce seniors.

    MR. LEIGH

MANAGEMENT SEMINAR. Second semester. Maximum two credits.

Required of all students qualifying for degrees with a major in management. Each student makes a thorough study of some problem meeting the approval of the faculty. Credit is dependent upon the quality of the work done.

72. THE FEDERAL RESERVE SYSTEM AND MONEY POLICIES. Second semester. Three credits.

A comprehensive study of the Federal Reserve system, the discount policy, the need and working of a centralized banking system, and methods of stabilizing credit during the fluctuations of the business cycle. Prerequisite, Money and Banking A.10.

MR. VAN METRE

73. Business Finance. First semester. Three credits. A basic and comprehensive course in finance. The financial structure and operation, the uses and sources of funds, the relation of the business executive to his bank, and the safeguarding of credit are studied. The financial needs and operation of both large and small businesses are equally stressed. Prerequisite, Money and Banking A.10.

MR. VAN METRE

74. Security Markets. Second semester. Three credits.

Markets and their influence on the price of securities, elements of security, appraisal and methods of computing net earnings, amortization, rights and conversions, will be studied. Various forms of securities will be considered. Prerequisite, Business Finance 73.

Given in 1931-32 and alternate years.

MR. VAN METRE

\*\*776. PUBLIC FINANCE. Second semester. Three credits.

Principles that should guide the city, state, or nation in raising and expending revenue. Sources of revenue, principles of taxation, governmental securities, fields of expenditure, and control of expenditures, are examined. Prerequisite, Principles of Economics and one course in Finance. Given in 1930-31 and alternate years.

MR. VAN METRE

- 78. Problems in Finance. Second semester. Three credits. Corporate organization in modern business, legal organization, instruments of finance, promotion, underwriting, capitalization, earning, expenses, surplus, manipulation, insolvency, receivership, reorganization and regulation. Working capital problems and control will be emphasized. Prerequisite, 73. Given in 1932-33 and alternate years.

  MR. VAN METRE
- 179
  172. FINANCE SEMINAR. Second semester. Maximum, two credits. Required of all students qualifying for degrees with a major in Finance. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.
- § 81. Marketing. First semester. Three credits.

  Functions of marketing, middlemen and their place in the market structure, retail types and policies, consumer and producer cooperation, market finance, associative activities, cost of marketing, prices and price factors. Open to juniors and pre-juniors. Pre-requisite, Economics A.1-2.

  MR. LEIGH

83e. Salesmanship. Two credits each semester.

The economics of selling. The selling price, the preparation of sales talks, and planes. Laboratory practice in the analysis of sales need and the presentation of sales talks.

and the presentation of sales talks.

85. Consumer Demand. Second semester. Three credits.

Principles underlying consumption as an aid toward marketing and advertising. What demand is, how elastic it is, how it can be modified or guided, the economics of style and fashion, the effect of consumer's income and credit, and the measuring of demand. Prerequisite, Economics A.1-2. Given in 1931-32 and alternate years.

MR. LEIGH

- 86. SALES ADMINISTRATION. Second semester. Three credits. Problems of marketing from the administrative standpoint. Problems of product and market analysis, demand creation, distribution, salesmen, sales campaigns, statistics, and summaries for managerial control. Prerequisite, 81.
- 188e. Retailing. Second semester. Two credits.

  A study of the development, types, and significance of the various retail institutions. The best practices of merchandising, display, and retail selling as well as the co-ordination of consumer needs and retail buying are considered.
- 1 89. Problems in Sales Policies. Second semester. Three credits. An advanced course covering the selection, training, compensation, management, and control of the sales force, and co-operation of the house, the salesmen, the advertising department, and the dealers. Methods of correlating the sales and production departments and of analyzing the market are given particular attention. Prerequisite, 86.
  - 92. Principles of Advertising. Second semester. Three credits. The problems and scope of advertising and its place in business, human aspects of the market, appeals, presentation of appeals, media, and special fields of advertising. Class work is supplemented by special problems. Open to pre-juniors and juniors.

    MR. LEIGH
- 1 94. Advertising Campaign. Second semester. Three credits. The principles established in the elementary course are more intensively treated and the student works out an advertising plan, completes layouts and copy, and launches a campaign for a particular product. Proper media are selected, the campaign scheduled, and promotional activities drawn up. Prerequisite, 92.
- / 95e. Purchasing. First semester. Two credits. Fundamentals of purchasing. Organization of the purchasing department and the systematization of the purchasing routine; the

determination of material need; providing the adequate sources of supply; the procurement of the right price and the relation of purchasing to stores.

182. Advertising and Marketing Seminar. Second semester. Maximum, two credits.

Required of all students qualifying for degrees with a major in Advertising and Marketing. Each student makes a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

## GENERAL COURSES FOR COMMERCE STUDENTS

Commerce students are required to take Economics 1-2, Money and Banking A.10, and the courses in Political Science listed hereafter. Additional courses in Economics may be elected from those described.

The letter A prefixed to a course number indicates that the course is given in the College of Liberal Arts. The letter T refers to the Teachers College.

### ART

## MISS CABLE

T.14-15. Commercial Art. Two credits each semester. Principles of advertising in connection with page arrangement, magazine, newspaper, and poster layout. Standard forms of lettering and adaptation of material to reproducing processes.

### **ECONOMICS**

## Professor Davis

A.1-2. Economics. Three credits each semester.

This course is the foundation for all other courses in Commerce. It considers production, consumption and distribution of wealth; labor problems; money and banking, international trade and exchange; economic crises; transportation; agricultural problems; social programs; public receipts and expenditures. Required of all Commerce students.

A.3-4. Foreign Trade and Foreign Exchange. Three credits each semester.

Recent tendencies in the foreign trade of the United States, principles of comparative cost, balance of trade, ocean shipping, handling and financing trade, bills of exchange, import and export credits, gold movements and the influence of investment and speculation, international creditor and debtor aspects, and governmental interference. Prerequisite, 6 hours of Economics.

A.10. Money and Banking. Second semester. Three credits. The principles and functions of money, credit and banking, credit instruments, credit and banking institutions, with especial attention to the Federal Reserve System. Prerequisite, 3 hours of Economics.

A.6. Investment. Second semester. Three credits. The nature, principles, classification and technique of investment; real estate loans; national, state and municipal bonds; investment analysis; railroad, public utility, industrial and financial institution securities. Prerequisite, 6 hours of Economics.

### **MATHEMATICS**

#### Mrs. Leigh

58. MATHEMATICS OF FINANCE. First semester. Three credits. A study of simple and compound interest, annuities, depreciation, amortization, bond valuation, building and loan associations, the elements of the mathematics of life insurance. For Commerce students. Prerequisite, College Algebra A.1.

### POLITICAL SCIENCE

### PROFESSOR CRECRAFT

- A.3. PROBLEMS OF CITIZENSHIP. Either semester. Three credits. This is a survey of a group of selected problems of citizenship with equal emphasis placed respectively upon social, economic, and political problems. It is an introductory course to the social and political sciences, based on text books, readings, and discussions.
- A.2. AMERICAN GOVERNMENT. Either semester. Three credits. This course gives the student an introductory survey of the basic principles, the practical administration, and the interstate relations of the American Government.
- A.20. Government and Business. Second semester. Three credits. This course is intended to acquaint students with the relation of government to business. Necessity for regulation, methods of control, regulating bodies, government ownership, competition, control of corporations, trusts and labor organizations, government promotion, public activities of business organizations, a national business policy, and activities of governmental agencies and departments. Open to juniors.

## SECRETARIAL SCIENCE

Two courses of study are offered in Secretarial Science, a fouryear course (128 semester hours) leading to the degree B.S. in Secretarial Science, and a two-year course (64 semester hours) for the completion of which a certificate is granted.

The four-year curriculum is designed for those who wish to prepare themselves for the higher grade secretarial and office positions without spending more than four years beyond the high school in preparation. In recognition of the fact that a broad background is invaluable in the upper levels of business, one-half the course is required in academic subjects which provide an introduction to the most important fields of human knowledge and furnish the student with the most essential elements of a standard college education. The required technical subjects provide the needed gateway into the business world, so that at graduation the student is prepared to enter his chosen field. The elective subjects which complete the course may be adapted to the needs of each individual, but must be chosen so that, in addition to the required major in Secretarial Science, there will be a minor of at least eighteen hours, including Freshman courses, in one field or in two related fields.

The two-year curriculum is designed for those with a capacity for something higher than mere routine stenographic or clerical work, but who prefer not to spend more than two years on the college level in preparation. Technical subjects naturally constitute a larger proportionate part of this curriculum than of the four-year.

Those who have had shorthand and typewriting before entrance will begin these courses in college at such point as their degree of proficiency permits, and approved electives, preferably academic subjects, will be taken in place of the shorthand and typewriting omitted in the college course.

Credit for college work in either shorthand or typewriting is indicated by the following table:

High School credits	Course entered in college	Credit given
1 year	Second semester First semester	{ Full credit { No credit
2 years	{ Second year { First year	{ Full credit { No credit

Men enrolled in the four-year course must meet the requirements

of the Reserve Officers Training Corps.

Those who enter with advanced standing may be excused from Problems of Citizenship or Human Biology, for which more advanced courses will be substituted.

It is recommended that practical experience be secured during the summer vacations if possible. The Bureau of Student Employment is frequently able to place students in suitable positions. During the college year a limited number of student assistantships are available in the administrative offices of the University. Those who do parttime work should lighten their schedules accordingly.

Men who enter with advanced standing may, with the consent of the dean, be excused from Secretarial Duties and from the advanced course in Shorthand and Typewriting.

The academic subjects listed below are described in the Buchtel

College section of the general catalog and in the Buchtel College Bulletin, listed alphabetically by departments. The letter "C" indicates a course in Commerce; the letter "S" Secretarial Science. Sixteen semester hours (recitation hours per week) constitute the normal load.

## OUTLINE OF TWO-YEAR CERTIFICATE COURSE

FIRST	YEAR
First Semester   Cr. Hrs.	Second Semester Cr. Hrs. Rhetoric (English 2) 3 Secretarial Duties S. 2 3 Human Biology 4
(Political Science 1)       4         Physical Training       1         Shorthand S. 21       3         Typewriting S. 31       2	Physical Training         1           Shorthand S. 22         3           Typewriting S. 32         2
SECOND	YEAR
First Semester         Cr.         Hrs.           Business Correspondence S. 13         3           Accounting C. 21         3           Physical Training (Men)         1           Shorthand S. 23         3           Typewriting S. 33         2           Approved Electives         1 to 3	Second Semester   Cr. Hrs
OUTLINE OF FOUR-YE	AR DEGREE COURSE
GENERAL REQ	QUIREMENTS
ACADEMIC Cr. Hrs.	NON-ACADEMIC Cr. Hr
English (Rhetoric 6. Literature 6) 12 Laboratory Science	Secretarial Duties S. 1-26 Business Correspondence S. 133 Office Management S. 103
Problems of Citizenship 4 Mathematics (College Algebra) 4 Economics 6	Shorthand         15           Typewriting         9           Accounting C. 21-22         6           Business Law C. 41-42         4
History	Physical Training 2 Free electives approved for the B. S. degree 16
Minimum Academic64	64
SUGGESTIVE OUT	LINE BY YEARS
FIRST	YEAR
First Semester Cr. Hrs.  Rhetoric (English 1)	Second Semester   Cr. Hr Rhetoric (English 2)
Physical Training 1	Physical Training 1

SECOND	YEAR		
	Second Semester	Cr.	Hrs.
3	Shorthand S. 22		
	Typewriting S. 32		2
3	Economics 2		3
4	Laboratory Science	'	4
4	Electives	· '	4
	YEAR		
Cr. Hrs.	Second Semester	Cr.	Hrs.
3	Sociology or Psychology		3
3			
			-
		Cr.	Hrs.
	Business Law C. 42		2
5			
	Cr. Hrs.  3  2  3  4  THIRD  Cr. Hrs.  3  2  3  3  5  FOURTH  Cr. Hrs.  3  3  5  7  7  8  8  8  8  8  8  8  8  8  8  8	3	Cr. Hrs.         Second Semester         Cr.           3         Shorthand S. 22         2           2         Typewriting S. 32         3           3         Economics 2         4           4         Laboratory Science         4           4         Electives         THRS           Cr. Hrs.         Second Semester         Cr.           3         Shorthand S. 24         2           2         Typewriting S. 34         3           3         Accounting C. 22         3           3         History         3           3         Electives         5           FOURTH YEAR         Cr. Hrs.         Second Semester         Cr.           3         Shorthand S. 26         Cr.           3         Typewriting S. 36         Office Management S. 10           3         Business Law C. 42         42

## SECRETARIAL SCIENCE

MR. DOUTT, MISS FLINT, MISS TENNEY

- 1. Secretarial Duties. First semester. Three credits. This fundamental course, required of all freshmen in Secretarial Science, acquaints the student with the origin, nature, and scope of secretarial work, and the duties performed in a modern office; the handling and answering of mail; securing of information; preparation of itineraries, budgets, speeches, reports, and documents; proofreading; and the writing of minutes.

  MISS TENNEY
- 2. Secretarial Duties. Second semester. Three credits. Instruction is given in all of the major filing systems and in the use of the chief types of office machines.

  MISS TENNEY
- 3e. Secretarial Duties. First semester. Three credits.
- 6. Office Organization. Second semester. Three credits. An analysis of the modern business office and its historical development, including such matters as the functions of the office; disposition of space; light, heat, and ventilation; furniture, equipment, and mechanical devices in the office; departmental organization; and various types of records. Open to all upper classmen.
- 10. Office Management. Second semester. Three credits. Problems of the modern business office from the managerial viewpoint, including office planning, departmental organization, personnel, standardization of tasks. For juniors and seniors only. MR. DOUTT
- 11e. Business English. Either semester. Two credits.
- 13de. Business Correspondence. First semester. Three credits. In applying the principles of English composition to business letter writing, both theory and practice are emphasized. Such business correspondence as sales letters, collection letters, applications for positions, adjustment letters, and business reports are written, examined, and criticized. Prerequisite, Rhetoric 1-2.

  MR. DOUTT

21de. Shorthand. First semester. Three credits.

This course is designed to give beginners in the Gregg system a thorough introduction to shorthand theory.

MISS FLINT

22de. Shorthand. Second semester. Three credits. The second semester completes Gregg theory and begins practice in dictation. While no attempt is made to secure speed, emphasis being on accuracy and development of vocabulary, at the end of the year the student should be able to take a wide variety of dictation at a moderate rate and to read notes accurately. Prerequisite, 21.

23-24de. Shorthand. Three credits each semester.

Dictation practice begins with simple letters and articles, and proceeds gradually through a wide variety of increasingly difficult material, designed to develop speed, to convey a broad understanding of business terminology, and to provide contact with the best forms of English expression. Prerequisite, Shorthand 22 or equivalent.

MISS FLINT

26de. Shorthand. Second semester. Three credits.

The vocabulary is further extended by practice in reporting shortcuts, court reporting phrases, and technical words. Shorthand plates are read and practiced. Congressional records, testimony, and jury charges are used for dictation. The development of speed is stressed. Prerequisite, Shorthand 24.

MISS FLINT

31-32de. Typewriting. Two credits each semester. Thorough instruction in the touch system of typewriting and the care and use of the machine; drawing up various business forms; drills in spelling, capitalization, and punctuation; use of carbon paper; simple tabulations; etc.

MISS TENNEY

33-34. Typewriting. Two credits each semester. The transcription of letters, articles, speeches, and reports is followed by the taking of dictation directly on the machine. Practice in legal work, difficult tabulations, and preparation of stencils. Methods of arranging letters, reports, manuscripts, and various documents. Prerequisite, 32.

36. Typewriting. Second semester. One credit.

The rapid transcription of articles, reports, and testimony is stressed. Various secretarial projects are given, such as writing original letters, sending telegrams, and making appointment schedules. Prerequisite, 34.

MISS FLINT

39. Typewriting. Either semester. Two credits. While this course is of the same grade as S31, it has been especially planned to present the essentials of touch typewriting to those who can devote only one semester to the subject. The preparation of business reports is emphasized. Open to Engineering and Commerce students with credit and to all other students without credit.

MISS FLINT, MISS TENNEY

## THE TEACHERS COLLEGE

W. J. Bankes, A. M., Dean, 1930-31 A. I. Spanton, A. M., Acting Dean, 1931-32

### GENERAL INFORMATION

The Teachers College was established in 1921 in co-operation with the Akron Board of Education, replacing the former Perkins Normal School of Akron. Teachers College, until the close of the academic year 1930-31, was supported by both educational systems. For its faculty it draws upon the teaching staff of both the Public Schools and 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 engaged in the Public School service, and the study of educational problems.

In general, the Teachers College is expected to achieve three purposes. The first of these is the affiliation of teacher training with the various colleges of the University, a situation which gives opportunity to all teachers in training to receive academic preparation along with the professional training.

Teacher training is based upon a broad 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 first year in the Akron Public Schools is try-out year. Graduation does not insure appointment to a teaching position in Akron. Selection is made on the basis of excellence in scholarship, professional training, personality and character.

The second purpose is to increase very considerably the opportunities for continued training for teachers already in service. Evening and Saturday courses are offered for those who wish them. It is hoped many will take courses leading to degrees 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.

## ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The requirement for unconditional entrance is 15 units.

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

English Mathematics (Algebra 1, Plane Geometry 1)	3 uni 2 uni 2 uni
Foreign Language History	1 uni

The mathematics requirement is 11/2 units of Algebra for Vocational and Industrial Arts Courses.

Foreign language is not required for Commercial, Vocational Education, or Industrial Arts Education Courses.

Deficiencies in foreign language must be removed before the student is eligible to junior rank.

### COURSES OF STUDY AND DEGREES

Teachers College trains teachers for all departments of the public school system. Those who finish four years, 128 semester hours in training, receive the Bachelor of Education degree. Graduate courses are open to any student who holds a Bachelor's degree from an accredited institution. The Master's degree is granted upon the completion of thirty hours of graduate work.

### THE COMPREHENSIVE EXAMINATION

All seniors are required to pass a general final examination covering the courses they have taken in their major subject.

## STUDENT TEACHING

The student teaching in all courses is done in the public schools in regular school rooms under the supervision of training teachers. Each student must teach for a semester under regular assignment and is held responsible for results of pupils for the semester. Under such supervision the student teacher really becomes an apprentice in teaching.

## OUTLINE OF COURSES

Teachers College is accredited by the State Department of Education for training teachers in the high school, kindergarten, and elementary fields of education and in the special fields of music, art, physical education, industrial arts, vocational education, commerce, and home economics.

For all degrees in Teachers College except the course for music supervisors, the following subjects are required:

## BASIC REQUIREMENTS FOR B. E. DEGREE

Cr	edits
English	12
Science, (Biology, Botany, Physics, Chemistry, or General Foods)	8
History, Sociology, Economics and Political Science Psychology, including General Psychology—3 hours and Educational	12
Psychology, including General Psychology—3 hours and Educational	
Psychology—3 hours	10
Health and Physical Education, (including R. O. T. C. requirements	
for men)	10
Education, including Methods, Principles of Education, and Student	
Teaching	30

Students will select the particular fields of specialization for their electives sufficient to make a total of 128 hours.

### KINDERGARTEN-PRIMARY COURSE

Those training for Kindergarten-Primary teaching must pass a music test during the first year of the course.

The following subjects must be included either in Basic Requirements or electives:

	edits
Observation	2
Kindergarten Curriculum	. 3
History and Philosophy of Kindergarten	. 2
Play Materials	ō
Songs and Games	
Primary Methods	
Child Care	. 3
Kindergarten-Primary Music	. 6
Kindergarten-Primary Art	6
Story Telling	
Literature for Primary Grades	3
Speech	્રુ
Guidance	. 2

## COURSE FOR ELEMENTARY TEACHERS

In this field of training, students will select the particular grades for which they wish to train, and specialize in these grades. The course must include the following:

Cred	its
Observation	3
Story Telling	3
Children's Literature	3
Art	ž
Public School Music, (Sight Singing and Methods)	2
	Š
Methods	ğ
Geography	6
Speech	3

## ART COURSE

In addition to the Basic Requirements as outlined, students will elect at least 42 credit hours in Art.

# \* COMMERCIAL COURSE

In addition to the Basic Requirements, electives in the commercial subjects may be distributed in preparation for teaching in the commercial departments of high school and college.

### HOME ECONOMICS

The electives in this field for those who desire to teach may be taken so as to prepare for regular teaching positions in the schools.

### INDUSTRIAL ARTS COURSES

In addition to the Basic Requirements, industrial arts students will include the following subjects in their curriculum:

	curta
Black Board Drawing	2
Design	
Industrial Drawing	
Mathematics	8
Major in Industrial Arts	
Observation and Student Teaching	12
Educational and Vocational Guidance	2
Organization and Administration Vocational Education	
History and Philosophy Vocational Education	2
Principles of Education	
Methods in Teaching Industrial Arts Subjects	3
Methods in Teaching Industrial Arts Subjects	•

Women students may select their majors from the industrial arts division of Home Economics.

## VOCATIONAL EDUCATION COURSES

These courses lead to the B. E. degree and a Smith-Hughes certificate.

In addition to Basic Requirements as outlined, the following must be included:

	redits
Industrial Relations	
Industrial Drawing	6
Occupational Analysis	2
Organization Industrial Materials	4
Free Hand Drawing	
Mathematics	
Shop Management	
Trade Major	
Observation and Student Teaching	2
Educational and Vocational Guidance	2
Philosophy of General Continuation School	
Organization and Administration of Vocational Education	
History and Philosophy of Vocational Education	
Principles of Education	
Timelples of Education	0

Women may elect, in addition to their trade major, 22 hours from the Department of Home Economics instead of the subjects listed above.

### MAJOR IN HEALTH AND PHYSICAL EDUCATION

In addition to the Basic Requirements, 42 hours of health and physical education must be included in this field of training. This permits the student to specialize in health, physical education, and coaching.

specialize in health, physical education, and coaching.

The 42 hours in health and physical education should be distributed to the various semesters approximately as follows:

DIDOT VEAD

FIRST			
First Semester Cr. Hrs.  Physical Education 1	Second Semester   Cr. Hrs.		
SECOND	YEAR		
First Semester Cr. Hrs. Physical Education 3	Second Semester   Cr. Hrs.		
THIRD YEAR			
First Semester Cr. Hrs.  Normal Diagnosis and Prescription of Exercise 15	Second Semester Cr. Hrs. Corrective Exercise 20 1 Organization and Administration of Physical Education 22 2 School Health 30 2 Theory and Practice of Interscholastic and Intramural Athletics 3 Physical Education 6 1 Swimming 7 1		

### MINOR IN HEALTH AND PHYSICAL EDUCATION Principles, Organization and Administration of Physical Education..... Physical Education 1, 2, 3, 4 Theory and Practice of Interscholastic and Intramural Athletics Health Education .....

COURSES FOR HIGH SCHOOL TEACHERS

In addition to the Basic Requirements, those preparing to teach in high school will elect a major of 24 hours and a minor of 18 hours.

In determining majors and minors, subjects may be grouped as follows: English, including public speaking, literature; history, including political science; social science, including economics, sociology, ethics, philosophy, logic; biological science, including physiology, botany, zoology, agriculture; physical science, including chemistry, physics; earth science, including geology, physiography; home economics, including all related subjects; commercial subjects, including all related subjects; mathematics; French; German; Spanish; Latin; Greek; physical education; manual arts, including all related subjects; music.

Prerequisites in any group are the following high school units: English (including public speaking), 3; history (including political science), 2; home economics, 1; manual training (including vocational industrial work), 1; commercial subjects, 2; mathematics, 2; French, 2; German, 2; Greek, 2; Spanish, 2; Latin, 4; Social sciences (including economics, sociology, community civics, occupations), 1; biological science (including physiology, botany, zoology, agriculture and general science), 1; physical science (including chemistry, physics and general science), 2; earth science (including geology, physiography and general science), 1. Five semester hours of collegiate credit in any subject may be offered in lieu of each unit of the high school prerequisite in that subject.

Those who plan to teach in Akron high schools should take five years of work

in college. Two degrees may be secured in the five years.

All students should advise with the following persons regarding their work according to the fields in which they expect to teach: Art, Mrs Barnhardt; Elementary curriculum, Dr. Evans; High School curriculum, Dr. Kuhnes; Home Economics curriculum, Miss Maxwell; Industrial and Vocational Education cation curriculum, Mr. Greenly; Kindergarten-Primary curriculum, Miss Kemler; Music curriculum, Miss Rider; and Physical Education curriculum, Mr. Smith or Miss Dunckley.

MINOR IN ART Credi	ts
Structural Art 1 2	1
Design 22	
Design 32	2
Free Sketch 6	
Still Life 17	
Still Life 18	
Pose 19	
Costume Design 11	
Home Planning 13	
History of Art 25	,
History of Art 26	,
	•
MINOR IN MUSIC Credi	
Sight Singing, Ear Training and Elementary Harmony	•
History and Appreciation 4	
Special Methods and Practice Teaching	,
Ensemble (Glee Club, Orchestra, Chorus and Band) and Applied	
Music	
Conducting	•

SPECIALIZED COURSES FOR PLATOON AND DEPARTMENTAL SCHOOLS

Students will be permitted to specialize in any field of platoon or departmental work. The student will major in the particular activity or department selected and satisfy the basic requirements for the degree. This will permit students to devote approximately one year's work to specialization in chosen fields.

COURSE FOR MUSIC SUPERVISORS AND SPECIAL TEACHERS

The letter "A" preceding a course number indicates that the course is listed in the Liberal Arts College and described in the bulletin of that college.

FIRST Y	YEAR
First Semester   Cr. Hrs.	Second Semester   Cr. Hrs.
16 SECOND	16
SECOND   First Semester   Cr. Hrs.	Second Semester   Cr. Hrs.
THIRD	YEAR
First Semester   Cr. Hrs.   3   3   2   2   2   2   2   2   2   2	Second Semester   Cr. Hrs.
FOURTH	YEAR
First Semester Cr. Hrs.  Principles of Education 9 3  Brass and Wood Instruments 11 1  Observation and Participation 25 2  Conducting 12 2  Orchestration 9 3  Music Composition 7 2  Elective 3	Student Training 24 6 Problems of Student Teaching 26 2 Elective 6

Students completing this course will receive the B. E. degree. Students may elect music as a minor with other majors for junior and senior high school teaching.

Prerequisite for entrance to four-year course is fourth grade examination in organ, piano, violin or any instrument, which will be given during Freshman Week of the first term.

All voice students will be required to attend and participate in Glee Club practice and activities. All students of violin and other string instruments will be required to attend and participate in Orchestra rehearsals and activities. The same applies to the Band for those students who play brass and wood wind instruments.

Instead of piano and voice as outlined in the course, students may elect a major and minor. The election may be made from a complete list of musical instruments.

# STATE REQUIREMENTS

There are minimum standards as laid down by the State Department of Education which all students must meet in order to receive the State certificate. These minimum requirements must be met in all instances. Students will do well to study these requirements so that no difficulty will arise for any student when application is made for the State Certificate.

TABLE OF PROFESSIONAL CREDITS

F	ype of Certifica Required Credit Semester hours	8	SUBJECTS	_
SPECIAL	ELEMENTARY	нісн есноог	NOTE: At the left, in the respective columns are entered the required number of credits in the several professional subjects.	
3	3	3	Educational Psychology V	- 3
3	3	3	Principles of Teaching (or Education)	- 3
2	2	2	Administration, Organization, or Management	- 2
2 or 4	6	2	Methods of Teaching as specified below:	_
	1			
		7.0		•
	1			
2 or 3	2 or 3	2 or 3	Observation and Participation	
5 or 4	5 or 4	5 or 4	Student Teaching	_
	3		Public School Music	_
	2	1	Physical Education	
	2		Art	_
(5 or 7)	(3)	(7)	Elective Subjects: Limited to the total number of hours indicated in the parentheses, and Individually to the number of hours at the left of the several subjects:	-
3	3	3	Introduction to Teaching	_
3	3	3	General Psychology	_
3	3	3	History of Education	_
3	3	3 3	Tests and Measurements	-
24	31	24	Total Required and Offered  Note:—Additional credits to meet the total requirements for any type may be presented in any of the subjects listed above as required, not including, for elementary, music, physical education, and art.	•

11/2

## GRADUATE COURSES

The Teachers College offers graduate courses leading to the following degrees: Master of Education (to candidates holding the B. E. degree), Master of Arts in Education (to candidates holding the A. B. degree), and Master of Science in Education (to candidates holding the B. S. degree).

Graduate work is characterized by quality as well as quantity. The degree is granted on the basis of a high level of attainment in a certain field rather than for the collection of a specified number of credit hours.

Attainment is to be judged by (1) the thoroughness of the candidate's acquaintance with his field, (2) his knowledge of the methodology of his field, and (3) his initiative and independence.

The applicant for admission to graduate study must satisfy the Admissions Committee that all required secondary school and college credits have been secured and that the candidate has completed all the requirements for a Bachelor's degree from a college of recognized standing. The Committee on Graduate Study reserves the right to require any applicant for graduate work to prove that he has a satisfactory background for such work by taking and passing such examination or examinations as the committee may prescribe.

The student will register with the chairman of the Graduate Committee, who will assign the student to some member of the department in which he intends to work.

Total credit of thirty semester hours of course work (may include thesis not to exceed six hours) is required of all candidates. At least twenty semester hours of this work must be done at the University of Akron. No work done more than five years previous to the date of granting the degree will be accepted in fulfilling the semester hour requirement. Eighteen hours of the work shall be in the major field.

No credit will be given graduate students for work done in courses regularly recognized as freshman or sophomore courses. Only half credit will be given for work done in undergraduate courses ordinarily considered junior. Work done in courses ordinarily considered senior will receive full credit. No credit will be given in such courses unless a distinctly high grade (at least "B") of work is done and additional work in excess of that expected of the class is done under the guidance of the instructor. Not more than six credit hours of work attained in undergraduate courses may be presented for the degree.

Not later than a semester previous to the period at which the work for the degree will presumably be finished, the student must file with the chairman of the Committee on Graduate Study a notice of his intention to apply for the degree.

Each candidate must prepare a thesis upon a subject in his major field of study. Credit (not in excess of six hours) for this thesis may be included in the thirty credit hours presented for the degree.

Two copies of the thesis, bound in accordance with University requirements, must be presented to the chairman of the Graduate Committee before the Commencement at which the candidate hopes to receive his degree. One of these shall be placed in the library, the other given to the head of the department in which the thesis was written.

Each candidate must pass a final examination on his thesis and his fields of graduate study.

A graduation fee of ten dollars must be paid by the candidate before the degree is conferred.

These regulations governing graduate work were adopted in May, 1931, and become effective for all students entering upon graduate study in the fall of 1931 and thereafter. For regulations governing work for the Master's degree in Teachers College prior to the fall of 1931, see previous bulletins.

# ACADEMIC DEPARTMENTS

Students in Teachers College are assigned to classes in the Liberal Arts College for academic work in the various departments such as Mathematics, History, Political Science, Sociology, English, Speech, Foreign Language and the Sciences. Arrangements for assigning students desiring commercial subjects to the College of Engineering and Commerce have also been made. This affiliation makes it possible for students in Teachers College to prepare for teaching any academic or commercial subject and, at the same time, satisfy the State requirements for professional training. For description of academic or commercial subjects, see General Catalog or bulletins of respective colleges. Such subjects required in Teachers College courses are numbered as in the General Catalog of the University. Electives may be made from any of these departments.

# DEPARTMENTS OF INSTRUCTION

Art	49
Education	52
Geography	
Home Economics	
Industrial Arts	
Kindergarten-Primary Training	
Music	
Physical Education	63
Psychology	
Vocational Education	

# SUBJECTS OF INSTRUCTION

The letters de following the course number indicate that the course is given in both Day and Evening Sessions; e indicates Evening Session only.

# ART

# ASSISTANT PROFESSOR BARNHARDT, MISS CABLE

General Final Examination: Seniors are required to pass a general final examination on all the work taken in their major subject.

- Ide. STRUCTURAL ART. Either semester. Two credits.
  A study of the basic principles of Art: design, color, composition.
  - 2. Design I. Second semester. Two credits. Historic ornament and its relation to present-day design. Problems in composition from geometric, flower, animal, figure, and abstract forms. Symbols of design. Prerequisite, 1.

3de. Design II. First semester. Two credits. A study in modern design. Prismatic color theory is studied, and application made to the several types of design for which it is adapted. Prerequisite, 2.

4de. Crafts I, Textiles. Second semester. Two credits. Application of design to textiles by different processes. Prerequisite, 3.

- 5. Crafts II. First semester. Two credits. Application of special designs to industrial problems. Prerequisite, 3.
- 6. Free Sketch. Second semester. Two credits. A thorough study of perspective, and application of its principles. Quick sketches to stimulate observation and rapid graphic expression. Memory drawing.
- 7de. Etching and Woodblock Illustration. First semester.

  Two credits.

  Technique of day point and chemical etching. Cutting and printing.

Technique of dry point and chemical etching. Cutting and printing of wood and linoleum blocks. Prerequisite, 6.

8. METHODS IN TEACHING ART. Either semester. Two credits. A study of the aims and objectives of Art education, and their practical adaptation to local needs. Prerequisite, the completion of the required course for Art teachers.

9de. CLAY MODELING I. First semester. Two credits. Modeling in relief and the round from the abstract and natural forms. Simple pottery forms. Prerequisite, 2 and 6.

10de. Modeling II. Second semester. Two credits. Modeling from the head and the human figure. Group composition. Work in clay, plaster, and wood. Prerequisite, 9.

- \* 11. Costume Design. First semester. Two credits. A study of the history of costume from the standpoint of line and color, and its adaptation and relation to modern dress. Costume suited to the individual. Prerequisite, 2.
  - 12. STAGE COSTUME. Second semester. Two credits. Costume and its environment. Period and national costumes. Psychology of color and color relation. Adaptation of costume to definite stage sets, lighting considered. Prerequisite, 11.
- 13. Home Planning I. First semester. Two credits. A study of types of houses. Planning a definite house. History of furniture. Application of principles of design and color to home furnishings. Prerequisite, 2.

- ★ 14. Home Planning II. Second semester. Two credits. A study of rugs and textiles, ceramics, metals, from the standpoint of history, of color, and of design. Prerequisite, 13.
  - 15de. ELEMENTARY ART. First semester. Two credits. A study of children's special interests and abilities. The use and source of reference material, the choice and use of suitable laboratory materials. The presentation of lessons in picture study. The correlation of Art with other studies in the curriculum. Prerequisite, 1.
  - 16. Marionettes. Second semester. Two credits. History of Marionettes. Choosing plays for elementary and secondary grades and adults. Development and production of a play. Making marionettes and stage sets. Making puppets, masks, shadow show material. Prerequisite, 11.
  - 17. Still Life I. First semester. Two credits. A study of composition, relation of forms, values, and color harmony, developed through the mediums of charcoal, pencil, crayon, oil, and water color. Prerequisite, 6.
  - 18. STILL LIFE II. Second semester. Two credits. Continuation of Course 17. Prerequisite, 17.
  - 19de. Pose I. First semester. Two credits. Drawing from the model. A careful study of form and its relation to the underlying structure of bones and muscles. Prerequisite, 18.
  - 20de. Pose II. Second semester. Two credits. Pictorial and decorative treatment of the human figure. Portrait heads. Color rendition. Prerequisite, 19.
  - 21. ILLUSTRATION I. First semester. Two credits. A study of principles underlying imaginative drawing. Creative work in different mediums. Prerequisite, 20.
  - 22. ILLUSTRATION II. Second semester. Two credits. Study of methods of reproduction, and their practicability. Development of two projects. Prerequisite, 21.
  - 23de. COMMERCIAL ART I. First semester. Two credits. Basic principles of lettering, layout, color and illustration applied to projects and practical problems. Prerequisite, 2 and 6.
  - 24de. Commercial Art II. Second semester. Two credits. Advanced course. A study of the technique of reproduction, and of drawing for definite problems in advertising. Prerequisite, 23.

- ₹ 25de. HISTORY OF ART I. First semester. Two credits. A comprehensive history of European painting, sculpture, and architecture, from the earliest time to the Italian Renaissance.
- \* 26de. HISTORY OF ART II. Second semester. Two credits. The history of European and American painting, sculpture, and architecture, from the Renaissance to the present time.

# **EDUCATION**

DEAN BANKES, PROFESSOR KUHNES, ASSISTANT PROFESSORS EVANS AND HOOVER, MISS KEMLER

General Final Examination: Seniors are required to pass a general final examination on all work taken in their major subject.

3de. HISTORY OF EDUCATION IN THE UNITED STATES. Either semester. Three credits.

The origin and development of educational institutions within the United States, emphasizing the social, religious, economic, and political factors involved.

MR. EVANS

6. EDUCATIONAL TESTS AND MEASUREMENTS. Either semester.
Two credits.

Designed to acquaint teachers with the necessity, use, and construction of new-type tests, the distribution of test scores, and the interpretation of test results.

MR. EVANS

- 7. EDUCATIONAL SOCIOLOGY. Second semester. Three credits. The data and principles derived from a study of social relationships are applied in educational problems. Offered as a two-hour course at night, first semester.

  MR. SNYDER
- 9. Principles of Education. Either semester. Three credits. An application to the direction of learning of the pupil of the principles of learning, aims of instruction, and the different recitation modes.

  MR. KUHNES
- 11. Story Telling. First semester. Three credits. The selection, preparation, and telling of stories for children. Designed for all who would interest children through story hour. Also given as a two-hour course at night.

  MISS KEMLER
- 12. Story Telling. Second semester. Three credits. A continuation of the work of 11, with special emphasis on classification, adaptation, invention, and grouping of stories. Also given as a two-hour course at night.

  MISS KEMLER
- 13. Creative Teaching in High School. First semester. Two credits.

A detailed study of directed learning of high school pupils. Application of principles to specific subject-matter. MR. SNYDER

15de. School Management and Administration. First semester. Two credits.

Designed to acquaint teachers with problems relating to non-instructional responsibilities such as attendance, records, discipline, promotion, community relationship, and professional improvement. Offered in the evening the second semester.

MR. EVANS

17. THE JUNIOR HIGH SCHOOL. Two credits.

The development of the junior high school idea; its special functions and administrative organization; the problems of counseling guidance, and student activities; curriculum development and reconstruction; problems of technique and the administration of instruction. Not offered in 1931-1932.

MR. EVANS

20. Technique of Curriculum Construction. Second semester.
Two credits.

An investigation of the materials of instruction. Scientific studies are used in conjunction with philosophically determined objectives in determining what to teach, and brought to bear upon the problems of curriculum-making. Students will be assisted in making adaptations to their special interests.

MR. EVANS

25. OBSERVATION AND PARTICIPATION. Either semester. Three credits.

All students are required to take this course the semester next preceding their Student Teaching. Its purpose is to prepare students for entering upon their duties as cadet teachers. Observation of teachers at work and participation in school room practices make up part of the actual work of the semester.

MR. KUHNES, SECONDARY; MR. SNYDER, INTERMEDIATE;
MISS KEMLER, PRIMARY

- 24. Student Teaching. Either semester. Six credits. Student teaching is done in the public schools of Akron in the various grade and high schools. A full semester is given to this subject. Certification of credits to the Registrar states the grade and subjects taught.
- PROBLEMS OF STUDENT TEACHING. Either semester. Two credits.

A conference course on classroom management and methods in the subjects taught in student teaching. Texts and references on management and methods will be studied. Required of all students doing student teaching.

MR. KUHNES, SECONDARY; MR. SNYDER, INTERMEDIATE;
MISS KEMLER, PRIMARY

32. Science: Content and Method. Second semester. Two credits.

Materials; aims; methods; content. Special emphasis upon science in the elementary school.

MR. SNYDER

- 33. PRIMARY METHODS. First semester. Three credits.
- A study of modern educational theory relative to the development and training of the young child, with emphasis on the kindergartenprimary unit, equipment, daily program, study seatwork, and self-expression through language, handwork, and dramatic play.

MISS KEMLER

- 34. PRIMARY METHODS. Second semester. Three credits. A continuation of 33, with emphasis on the technique of instruction in the primary school. The activity curriculum, with reference to the school subjects in relation to experiences, activities, and interests of children. Approach to reading and numbers and their development in the first three grades.

  MISS KEMLER
- 35. READING: CONTENT AND METHOD. First semester. Three credits.

Underlying principles of the teaching of reading, dealing with the development of reading abilities in children from the earliest through the more mature stages. Given as a two-hour course at night, second semester.

MISS KEMLER

36. LANGUAGE: CONTENT AND METHOD. Either semester. Two credits.

A study of the principles of teaching language in grades one to six, emphasizing self-expression, oral and written accuracy, appreciation, and remedial work.

MISS KEMLER

- 37. ARITHMETIC: CONTENT AND METHOD. Either semester. Two credits.
- Subject matter for grades one to six, principles of teaching, special methods and devices, course of study, and remedial work.

MISS KEMLER, MR. SNYDER

- 38. CHILDREN'S LITERATURE. Second semester. Three credits. A study of children's interests, appreciation lessons, creative returns, poetry, stories, and books for children from kindergarten through the sixth grade.
- 39. HISTORY: CONTENT AND METHOD. First semester. Two credits.

Historical materials; aims; values; motivation; visualization; appreciation; lesson types; biography; methods; reading lists by grades; reports.

MR. SNYDER

## GRADUATE COURSES IN EDUCATION

PROFESSOR KUHNES, ASSOCIATE PROFESSOR EVANS

101e. Modern Tendencies in Education. First semester. Two credits.

A discussion of the outstanding tendencies in modern educational theory and practice.

MR. KUHNES

107. Educational Tests and Measurements for Secondary Schools. Two credits.

The necessity of testing in high school, improvement of examinations; tests for various subjects; interpretation of results and statistical computations for determining test reliability. Not offered in 1931-1932.

- 109. Secondary School Administration. Two credits. A course to acquaint the student of Education with the origin, meaning and function, financial support, organization and management of the American secondary school. Not offered in 1931-1932.
- 112e. Public School Administration. Second semester. Two credits.

A fundamental course in educational administration. Some of the topics considered are: selection, promotion, training and salaries of teachers; budget making and accounting; attendance, classification, and progress of pupils. Offered on Saturday.

MR. EVANS

- 113e. EDUCATIONAL PHILOSOPHY. First semester. Two credits. The educational aims and ideals as determined by the educational process, the nature of mind and the ideals of the race. MR. KUHNES
- 114e. Supervision of Student Teaching. Second semester. Two credits.

A study of current practices and specific methods of supervision and direction of student teaching.

MR. KUHNES

- 117e. Supervision of Instruction. First semester. Two credits. The principles and scientific investigations which are related to the improvement of teaching. The work of the principal as supervisor will be stressed. Offered on Saturday.

  MR. EVANS
- 118e. EDUCATIONAL STATISTICS. Second semester. Two credits. This course deals with the statistical terms and concepts needed in order to interpret present-day literature. Teachers who construct new-type tests will be helped in validating their procedures. Designed for teachers, administrators, and research students.

MR. EVANS

122e. HISTORY OF THE PHILOSOPHY OF EDUCATION. Second semester. Two credits.

A study of the contributions of great thinkers, from Socrates to the present, to the development of an educational philosophy. Prerequisite, Educational Philosophy. MR. KUHNES

## **GEOGRAPHY**

# Assistant Professor Packard, Mr. Snyder

1de. Principles of Geography. First semester. Three credits. A study of natural environment in relation to life. Offered as a two-hour course at night during the second semester. MR. SNYDER

GEOGRAPHY OF NORTH AMERICA. First semester. credits.

Natural resources and climatic features as they influence life forms, industries, cities, and chief historic events in North America.

MR. SNYDER

## HOME ECONOMICS

PROFESSOR MAXWELL, MISS LATHROP, AND MISS COUNTS

3-4. Textiles. Two credits each semester.

A study of standard textile fibers, with emphasis on the factors which influence style, beauty, use, and wearing quality; judging materials; the selection of materials for clothing and house furnish-MISS LATHROP

13-14. General Foods. Four credits each semester.

The selection and preparation of foods; contributions to an adequate diet; individual needs for energy food; those for building tissue and regulating body processes. Meals will be planned and served. Open to women not majoring in Home Economics. Fee \$4.00. Two hours of lectures and discussions, six hours of laboratory each week.

25de. CHILD CARE. One semester. Three credits. The principles relating to development of the child through the prenatal, infancy, and pre-school periods. Physical, mental, social, and moral development through each period. Nutrition needs. Factors contributing to child welfare. MISS MAXWELL

For other courses offered in Home Economics see under Home Economics in College of Liberal Arts.

# INDUSTRIAL ARTS EDUCATION

ASSISTANT PROFESSOR GREENLY, MR. MOORE

- 1-2. Woodworking. Three credits each semester. A course in tool processes in which bench work is stressed. Projects for junior and senior high schools. Nine hours per week.
- 9-10. METAL WORKING. Three credits each semester. Working knowledge of fundamental tool processes. Sheet metal projects are developed. Nine hours per week.
- 17-18. Printing. Three credits each semester. A course in printing given in the school print shop. Nine hours per week.
- 19. ELECTRICAL SHOP. First semester. Four credits. A course in electrical shop work given in an electrical shop of the public schools. Twelve hours per week.
- 21. FIELD PROJECT. First semester. Four credits. Each student in his senior year will work out a project suitable to his major subject in shop teaching.
- 23-24. Organizing Instruction Material for Industrial Arts Teaching. Two credits each semester.

  Development and compilation of material to be used in classroom instruction. Lesson planning, working out operation sheets, information sheets, and job sheets for various industrial arts activities. Akron—4:00 to 6:00 P. M. Wednesday.

  MR. MOORE

# KINDERGARTEN-PRIMARY EDUCATION

(Not to be offered in 1931-1932)

- 1. PLAY MATERIALS. Second semester. Two credits.

  Materials, tools, purposes, and techniques in the use of clay, blocks, sand, paper, wood, roving, cloth, odds and ends. A study of standards for judging work, and equipment for indoor and outdoor play.

  MISS KEMLER
- 2. Songs and Games. Second semester. Two credits. A study of rhythmic responses of young children from spontaneous rhythmic movements to organized rhythmic plays and games. A study of rote singing, singing games, finger plays, kindergarten orchestra, appreciation, and materials.

  MISS KEMLER
- 3. HISTORY, PHILOSOPHY AND TECHNIQUES OF KINDERGARTEN-PRIMARY EDUCATION. First semester. Three credits. Historical development of the kindergarten-primary unit, with emphasis on basic principles underlying early childhood education, equipment, and curriculum content based on children's needs and interests. Two recitations and two hours' observation weekly.

MISS KEMLER

## **MUSIC**

Professor DeLeone, Director, Assistant Professor Ende, Mr. Chapman, Miss Rider, Mr. Strassner

General Final Examination: Seniors are required to pass a general final examination on all work taken in their major subject.

The work in music is open to election by members of all college classes. It includes a recitation course in the study of music, meeting twice a week through the year, and participation in Glee Club, Band, or Orchestra, two hours each week.

All students desiring to participate in the classroom work in music, or in Orchestra, Band or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester. Students who desire to take no studies except music must fulfill the regular requirements for college entrance.

The University offers eighteen scholarships in organ, piano, violin, and voice for students who are taking the Music Supervisors course, and to other students in music who are especially qualified and gifted. The scholarships are competitive and the selection is made by the Music Faculty. This procedure offers a splendid opportunity for students to further their musical education.

Opportunity is also offered for private instruction in piano under Professor DeLeone, in organ under Mr. Ende, in violin under Mr. Chapman, and in voice under Mr. Strassner. For information concerning fees consult Professor DeLeone, director of Music.

MEN'S GLEE CLUB. Both semesters. One credit each semester.

Women's Glee Club. Both semesters. One credit each semester.

ORCHESTRA. Both semesters. One credit each semester.

BAND. Both semesters. One credit each semester for students not in R. O. T. C.

#### THEORY COURSE

ASSISTANT PROFESSOR ENDE, MISS RIDER, MR. STRASSNER

Students must take the Theory course in conjunction with Organ, Piano, Violin, or Voice in order to receive credit for the work.

#### FIRST YEAR

1-2de. ELEMENTARY HARMONY. Two credits each semester. Intervals; scales; triads; inversions of triads. Cadences; sequences; chords of the seventh and inversions; passing and auxiliary tones; simple modulations. Harmonization of melodies and basses. Keyboard work covering paper work. Prerequisite, the ability to play hymns.

# SECOND YEAR

3-4. ADVANCED HARMONY. Two credits each semester.

Leading-tone chords of the seventh and inversions; secondary chords of the seventh and inversions; chords of the ninth, eleventh, and thirteenth. Chromatically altered chords; augmented chords; sus-

pensions; ornamental tones; modulation; the pedal; the old modes. Harmonization of melodies and basses. Keyboard work covering paper work. Prerequisite, 1-2.

#### THIRD YEAR

- ¥ 5-6. COUNTERPOINT. Two credits each semester. General laws of harmonic and melodic progression. Simple two-part counterpoint in the five orders. Simple three-part counterpoint, introducing various combinations. Trios for strings and for organ. Four-part writing for voices, for strings, and for organ, with imitations. Prerequisite, 3-4.
  - 8. FORM AND ANALYSIS. Second semester. Three credits. The homophonic and polyphonic forms with analysis of small and large examples of each; the symphonic poem; cylical form. Prerequisite, 3-4.

#### FOURTH YEAR

- \* 7. Music Composition. First semester. Two credits.

  Original creative work based on the simpler homophonic and polyphonic forms. Prerequisite, 1 to 8, inclusive.
- 9. ORCHESTRATION. First semester. Three credits. The theory of instrumentation; strings; brass; wood wind; percussion. Score reading and practical work. Prerequisite, 1-2, 3-4.
  - 11. Brass and Wood Wind Instruments (Band). First semester. One credit.

Practical knowledge of instruments. Position; tuning; score reading; interpretation. Developing of the ability to encourage and to develop others.

- 12. CONDUCTING. Second semester. Two credits. Practical work before Glee Club, Orchestra, Band in the art of conducting. Special emphasis will be placed also on the methods of organization and discipline.
- 13e. RHYTHM BAND. First semester. Two credits. A course in conducting rhythm with emphasis on the toy orchestra. Construction of a number of instruments is included.

# PUBLIC SCHOOL MUSIC Assistant Professor Ende, Miss Rider

17-18. KINDERGARTEN AND PRIMARY MUSIC. One credit each semester.

First semester: kindergarten and first grade; rhythm; song material; teaching of rote songs; care of the voice; treating monotones. Second semester: second and third grades; toy symphony orchestra; art songs; observation songs; ear work; method of teaching sight-reading. Prerequisite, 31.

19-20. Public School Music. One credit each semester. First semester: grades one to four; teaching of rote songs; correct use of the voice; material for oral tonal dictation; music reading;

key signatures; studies in rhythm; how to teach sharp chromatics; two-part singing. Second semester: grades five to eight; triads; teaching of the minor scales; how to teach flat chromatics; three-part singing. Prerequisite, 31-32.

21-22de. Public School Music Methods. Two credits each semester.

First semester: material of kindergarten and primary grades; methods of teaching music appreciation. Second semester: material of intermediate and upper grades; methods of teaching; music appreciation. Prerequisite, one year of Theory, and 31-32. (For those majoring in Public School Music.)

31-32. SIGHT SINGING AND EAR TRAINING. Two credits each semester.

First semester: material for first three grades; drill on intervals; key signatures; drill on simple rhythms; major scale; normal minor scale; sharp chromatics; sequences. Second semester: Material for grades four to six; chords; dotted beat note; triplets; duplets; flat chromatics; harmonic minor; melodic minor; two-part songs; three-part songs.

33-34. Second Year Sight Singing and Ear Training. Two credits each semester.

First semester: Unison songs; two-part songs; three-part songs; one and two voice dictations; tone relationships of major and minor modes; chromatic problems; song analysis. Second semester: Two-part songs; three-part songs; four-part songs; cadence forms; chord progressions; sequences; four-voice dictations. Prerequisite, 1-2 and 31-32.

35-36de. HISTORY AND APPRECIATION OF MUSIC. Three credits each semester.

Alien musical systems; mediaeval music; the epoch of vocal counterpoint; the development of monophony; Bach, Handel, Gluck; the perfection of the sonata form. The transition to the romantic style; the great nineteenth century romanticists; opera in the nineteenth century; other nineteenth century composers; recent and contemporary composers. Outside readings and reports. Fully illustrated.

37. Organization in Public School Music. First semester. Two credits.

A study of the relationship among principals, teachers and supervisors through which good results may be secured. The elementary school curriculum; outlining work for teachers; grade meetings; visiting work; checking and reporting results. Voice teaching and classification; organization of chorus and orchestra; material for cantatas and operettas; arranging music schedules for high school.

## PIANO Professor De Leone

#### FIRST YEAR

1-2. Piano. Two credits each semester.

Major and minor scales, arpeggios, broken chords with rhythm and in different forms; The Little Pischna; Hanon; Loeschorn, Op. 66; Czerny, Op. 299, selected; Heller, 50 Selected Studies; Bach-Reinecke, 12 Little Preludes; Clementi and Kuhlau Sonatinas, selected; selected compositions from the classics and contemporary masters. Two half hour lessons weekly.

#### SECOND YEAR

3-4. PIANO. Two credits each semester.

Major, minor, and chromatic scales, arpeggios, broken chords continued; Pischna; Loeschorn, Octave Studies; Czerny, Op. 740, selected; Bach, Two and Three-Part Inventions; Easier Sonatas of Haydn, Mozart, Beethoven; compositions selected from Chopin, Valses and Mazurkas; Mendelssohn's Songs Without Words; Grieg and MacDowell, Op. 390. Two half hour lessons weekly.

#### THIRD YEAR

5-6. PIANO. Two credits each semester.
Scales, major and minor in double 3rds and 6ths; advanced forms of arpeggios and broken chords, also special exercises; Kullak, Octave Studies; Cramer, 50 Selected Studies; Bach, selected from French and English Suites; Sonatas by Beethoven and others; Chopin, selected from Nocturnes, Impromptus, Preludes. Two half hour lessons weekly.

#### FOURTH YEAR

7-8. PIANO. Two credits each semester. Special work in advanced technique; Clementi, Gradus Ad Parnassum; Moscheles, Op. 70; Bach, Well-Tempered Clavichord; Chopin, Etudes, Op. 10 and 25; Schumann, Etudes Symphoniques; Repertory selected from Liszt, Rubenstein, MacDowell, and contemporary masters.

Requirement for graduation—a public recital of a program from memory or a concerto with second piano or orchestra accompaniment.

## VIOLIN Mr. Chapman

# FIRST YEAR

1-2. VIOLIN. Two credits each semester. Gruenberg, Scales and Chords, Book II; Mazas, Melodious and Progressive Studies, Op. 36, Books I and II; supplemented with selected solos, duets, and parallel studies. Two half hour lessons weekly throughout the year.

#### SECOND YEAR

3-4. VIOLIN. Two credits each semester.

Scales and Chords, Book II, Gruenberg; 24 Studies Op. 80, Books I and II, Hans Sitt; Kreutzer, 42 Studies; supplemented with solos, duets, and parallel studies.

#### THIRD YEAR

5-6. VIOLIN. Two credits each semester.

Scales and Chords, Book II; Kreutzer, 42 Studies continued; Fiorillo, 36 studies; DeBeriot, Concertos 7 and 9.

FOURTH YEAR

7-8. VIOLIN. Two credits each semester.

Fiorillo continued; Rode, 24 Studies; Mendelssohn, Concerto; Introduction and Capriccio, Saint-Saens; Sixth Sonata, E major, Bach.

Requirement for graduation—a public recital of a program from memory or a concerto with second piano or orchestral accompaniment.

VOICE

#### Mr. Strassner

#### FIRST YEAR

1-2. Voice. Two credits each semester.

Principles in the proper production of tone for both speaking and singing. Reading and reciting of poetry for the development of imagination as the basis of expression. Selected vocalises involving the study of intervals, major and minor scales and arpeggios. Suitable songs and ballads for diction and interpretation. Two half hour lessons weekly throughout the year.

#### SECOND YEAR

3-4. Voice. Two credits each semester.

Continued drill on tone according to the needs of the individual student. More advanced vocalises such as Concone, Lamperti, and others. Art songs by classic and modern composers. Must take part in student recitals and ensemble singing.

## THIRD YEAR

5-6. Voice. Two credits each semester.

Continued technical studies and embellishments. More emphasis on style and expression. More advanced vocalises by Bordogni, Concone, Sieber, and others. More difficult songs by composers of the Classics. Recitals and ensemble singing.

# FOURTH YEAR

7-8. Voice. Two credits each semester.

Repertoire—Selected recitatives and arias from oratorio and grand opera. Complete role in one or more oratorios. Classics of various schools sung in the original language. Ensemble singing. Supervised teaching and pedagogy. Public graduation recital from memory.

## ORGAN

#### ASSISTANT PROFESSOR ENDE

FIRST YEAR

1-2. ORGAN. Two credits each semester.

Stainer, The Organ; Buck, Pedal Phrasing Studies; Carl, Master Studies for the Organ; Bach, Eight Little Preludes and Fugues; easy compositions; registration; hymn playing. Two half hour lessons weekly throughout the year.

SECOND YEAR

3-4. Organ. Two credits each semester.

Nilson, Pedal Studies; compositions by Bach, Mendelssohn, Rheinberger, Guilmant, and others; registration continued. Two half hour lessons weekly throughout the year.

THIRD YEAR

5-6. Organ. Two credits each semester.

Nilson, continued; more advanced compositions by Bach, Mendelssohn, Rheinberger, Guilmant, and others; works selected from the American, English, French, and Italian organ schools. Two half hour lessons weekly throughout the year.

FOURTH YEAR

7-8. Organ. Two credits each semester.

Bach, Sonatas; Handel, Concertos; the greater works of Bach and Franck; compositions by Ruebke, Thiele, and Liszt; Symphonies by Widor and Vierne; selected works from the modern schools; choir accompaniment. Requirement for graduation—a public recital of a program or a concerto with orchestra accompaniment.

## PHYSICAL EDUCATION

Professor Sefton, Assistant Professors Blair and Smith, Miss Dunckley, Mr. Lipps, Miss Washburn

General Final Examination: Seniors are required to pass a general final examination on all work taken in their major subject.

FRESHMAN AND SOPHOMORE COURSES

1-2. Physical Education. One credit each semester. Instruction and practice in physical education for the first four grades in the elementary school. Two hours per week. The practice includes both outdoor and indoor work. The first semester is prerequisite to the second.

MR. LIPPS

3-4. Physical Education. One credit each semester. Instruction and practice in physical education for the last four grades of the elementary school. Two hours per week. The practice includes both outdoor and indoor work. Prerequisite, 1-2.

9-10. PLAY AND GAMES. One credit each semester.

Theory of play and practice of games with emphasis on how to teach them. The first semester is devoted to games of low and middle organization; the second to games of higher organization and minor sports. For both men and women.

MR. LIPPS

MR. LIPPS

## THE UNIVERSITY OF AKRON

- 11. FOLK GAMES. First semester. Two credits.

  One-hour lectures are given once each week on characteristics and customs of various countries and theories of rhythmical games. Emphasis is placed on singing games and games of dramatization of simple rhythmical games and action games. Four hours per week.

  MISS DUNCKLEY
- 12. Folk Games. Second semester. Two credits.

  One-hour lectures are given once each week on theories of technique of more advanced dancing and dancing nomenclature. More advanced rhythmical work is given in practice, more stress placed on rhythm and execution of more complicated dances. Part of the practice time is devoted to action games. Four hours per week. Prerequisite, 11.

  MISS DUNCKLEY
- 17. First Aid and Massage. First semester. One credit. First Aid: bandaging, general injuries, fractures and dislocations, wounds, burns, scalds, sunstroke, frost bite, freezing, drowning, electric shock, poisoning and care for sick and injured; athletic conditioning, special injuries for each branch of athletics and treatment, hydrotherapy, common ailments and supplies; adhesive tape and its use; practical work and the making of a first aid kit. Massage: strokes, physiological objectives, joint movements, systems, deformities, when and when not to use; special and general massage; value to physical directors in everyday work.
- 19. APPLIED ANATOMY. First semester. Four credits.

  Methods of studying muscular action; important muscles of the upper limb, shoulder girdle, shoulder joint, elbow, forearm, wrist and hand, lower limb, hip joint, knee joint and foot; muscles of the trunk, spinal column, breathing and upright posture, and teamwork among muscles; gymnastic movements; sports, industrial occupations; use and abuse, effects and suggestion of muscular activities.

  MR. SMITH
- 27. HISTORY OF PHYSICAL EDUCATION. First semester. Two credits.

Types of physical education—Sparta, Athens, Roman era, Teutonic Invaders, Asceticism, Cathedral schools, Renaissance, Reformation; physical education leaders of Sweden, Denmark, Germany, England, and the United States; systems abroad and at home, history, effects.

MR. LIPPS

5-6. Physical Education, Theory and Practice Combined.
One credit each semester.

This course is designed to give women practice in more advanced work in all phases of physical education including advanced gymnastics, advanced theory and practice of Indian clubs, wands, and

162

dumbbells, practice of apparatus work and stunts and rhythmic work. This is to prepare for work for high school grades. Three hours per week. For women only. Prerequisite, 3-4.

MISS DUNCKLEY

- 5-6. Physical Education Practice. One credit each semester. First semester: Value of tumbling, how to teach it, rolling, balancing, stunts, pyramids and group work, pointers and programs for exhibitions; apparatus work, nomenclature, parallel bars, bunch, horse, rings, horizontal bar, and combinations; apparatus and its place in the program. Second semester: Light apparatus, wands, Indian clubs, dumbbells, methods, demonstration and participation. For men only. Prerequisite, 3-4.

  MR. SMITH
- 7. Swimming. Second semester. One credit.

  Non-swimmers learn to swim; intermediate swimmers acquire new strokes; advanced swimmers improve their technique; mastery of life-saving, diving, water stunts, programs, methods of teaching beginners, and water front administration; administration of tests; program building.

  MR. SMITH, MISS DUNCKLEY
- 8. APPLIED PHYSIOLOGY. Second semester. Four credits. This introductory course, in a practical way, endeavors to emphasize the fundamentals; to present the basic elements and data concerning the structure and function of the human body in an orderly and logical sequence. Unsettled questions and lengthy lists of living experimenters have been left out and in their place frequent suggestions for the practical application of the theories advanced are stressed. Prerequisite, 19.

  MR. SMITH
- 23. Principles of Coaching. First semester. Three credits. Lectures on football and basketball theory and technique. First aid treatment of sprains, bruises, and other common sport injuries. Men only. Prerequisite, 9-10.

  MR. BLAIR
- 24. Principles of Coaching. Second semester. Three credits. Lectures on theory and technique of baseball, track, field athletics, soccer, tennis and volleyball. Practice in bandaging. Preparation for the Red Cross examination. Men only. Prerequisite, 9-10.

MR. BLAIR

13. Principles of Coaching for Junior Women. First semester.
Three credits.

Lectures on theories and technique and principles of hockey, soccer, and basketball. First aid treatment of sprains, bruises, and other common sport injuries. Prerequisite, 9-10.

MISS DUNCKLEY

- 14. Principles of Coaching for Junior Women. Second semester. Three credits.
- Lectures on theories, technique, and principles of volleyball, base-ball, tennis, and track. Practice in bandaging. Preparation for the Red Cross examination. Prerequisite, 9-10.

  MISS DUNCKLEY
- 15. PRESCRIPTION OF EXERCISE. First semester. One credit. The work covers recognized needs of remedial work, normalcy in the human, health and physical diagnosis, causes of defects and their detection, influence of posture on physical and mental growth, body types and type characters. Prerequisite, 19.

  MR. SMITH
- 20. Corrective Exercise. Second semester. One credit.

  Technique of examination, organization, methods, schedule of exercise, and demonstration of correct exercises for each divergency.

  Prerequisite, 19.

  MR. SMITH
- 21-22. Organization and Administration of Physical Education. Two credits each semester.
- Objectives of physical education, principles of selection; classification of activities according to their values and adaptation to age, groups and sex; organization of material with reference to facilities, time allotment and objectives and the arrangement into well-balanced lessons. Lectures and recitations. For Juniors only.

  MR. SEFTON
- 26. Student Teaching. Either semester. Twelve credits. Student teaching is done in the public schools of Akron in the various grade and high schools. A full semester is given to this subject. Certification of credits to the Registrar states the grade and subjects taught.
- 29-30de. School Health. Two credits each semester. The first semester deals with school sites, drainage, sanitation; beautifying; efficiency; school buildings, lighting, heating, sanitation; school furniture, seat equipment; gymnasium, size, care; school health problems, detection, remedies. The second semester's work deals with teaching health needs, programs, organizations, tests, materials.

# **PSYCHOLOGY**

PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD, ASSISTANT PROFESSOR PACKARD, MR. SNYDER

General Final Examination: Seniors are required to pass a general final examination on all work taken in their major subject.

Ide. General Psychology. Either semester. Three credits. A course for the preparation of students for a general understanding of the feelings and emotions, motives and reactions of themselves and their fellow beings, and to prepare them for more advanced and specialized courses.

MR. HAYES

- 3de. Educational Psychology. Either semester. Three credits. For students who wish to meet state certification requirements and who have had no training in educational psychology. Attention particularly to the native equipment of children and to the learning process. Prerequisite, 1.

  MR. wood
  - 4e. Psychology of The Exceptional Child. Second semester. Two credits.

Case studies of deviates; methods of treatment; methods of diagnosis; neural instability, precocity, backwardness, and feeblemindedness. Prerequisite, 1.

- \*\* 5de. Child Psychology. First semester. Two credits. Pre-school child and early elementary grades; original tendencies; play attitudes and educational application; application of instinctive urges in training and control. Prerequisite, 1.
  - 8e. Psychology of Elementary School Subjects. Second semester. Two credits.

A study of the psychological problems that deal with the formation of habits that give skill in their acquirement and all the factors that influence those habits. An attempt will be made to relate the elementary subjects to the sociological needs of pupils and communities. Offered on Saturday. Prerequisite, 1.

MR. WOOD

- 9. Experimental Psychology. First semester. One credit. Laboratory experimentation in the field of reactions to various sensory stimuli. Prerequisite, 1. MR. HAYES
  - 10. Experimental Psychology. Second semester. One credit. Continuation of course 9. Development of technique of experimentation; more complex reactions. Prerequisite, 1. MR. HAYES
  - 11. Experimental Psychology. First semester. One credit. The measurement of rates of learning, motor learning, learning of mazes. Prerequisite, 1.

    MR. HAYES
    - 12. Experimental Psychology. Second semester. One credit. Learning of complex material, foreign language, non-sense material, logical associations. Prerequisite, 1.

      MR. HAYES

# GRADUATE COURSES IN PSYCHOLOGY PROFESSOR HAYES, ASSOCIATE PROFESSOR WOOD

102. Social Psychology. Either semester. Three credits. The psychological bases of customs, social groups, mobs, superstitions, social control, clubs, castes, publics and other social controls. Prerequisite, 1 and 3. Offered in evening, first semester, as two-hour course.

MR. HAYES

103de. Advanced Psychology. First semester. Two credits. A general intensive survey of the fields of psychology especially for graduate students who are majoring in psychology or philosophy. Prerequisite, at least seven hours of Psychology.

MR. HAYES

106de. Abnormal Psychology. Second semester. Two credits. This 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. Prerequisite, at least seven hours of Psychology.

MR. HAYES

108e. PSYCHOLOGICAL SYSTEMS. Second semester. Two credits. The various theories, definitions and conceptions of psychology will be studied. Some library work will be required in the field of psychic causation and the theories of the subconscious. Prerequisite, at least seven hours of Psychology.

MR. HAYES

109de. Psychology of Adolescence. Either semester. Two credits.

Problems of pre-adolescence and the adolescence, physical and psychic changes, problems of differentiation in junior and senior high school age. Social and moral changes. Prerequisite, 1 and 3.

MR. WOOD

114e. PSYCHOLOGY OF RELIGION. Second semester. Two credits. An attempt will be made to support the position that religion is a normal part of human development. The phenomena of religious experience will be put on the same scientific footing as the phenomena of the other ranges of experience. No brief will be made for any form of religious faith or for any form of anti-religious doctrine. Prerequisite, at least seven hours of Psychology.

MR. WOOD

117e. The Psychology of Character Traits. First semester. Two credits.

An attempt is made to attack the problems of character training systematically and without the usual disastrous mixing of sentimentality and artificiality. Ideals and situations, trait actions and specific individual development are the subjects which receive particular attention. Prerequisite, at least seven hours of Psychology.

MR. WOOD

# RESEARCH

104. Research Problem. Credit by arrangement. This course is open to graduate students and is in addition to the thesis. Only those who have received permission from their major professor and whose problem is approved, may receive credit. A fee of \$5 is charged.

120e. Principles and Technique of Research and Investigation. First semester. Two credits.

The purpose of this course is to introduce graduate students to the principles and practice of research and assist them in locating problems for Masters' theses. Meaning and purpose of research; study of typical researches; bibliographies; questionnaires and other instruments; organizing data; preparation of scientific papers. Offered in evening.

MR. EVANS

# VOCATIONAL EDUCATION Assistant Professor Greenly

- 2. OCCUPATIONAL ANALYSIS. Second semester. Two credits. A comparative study of methods of occupational analysis for curricular purposes. Development of a standard technique to determine content of courses for vocational and special continuation classes. Analysis may be made of any occupation for which there is educational demand, such as architecture, auto mechanics, carpentry, dress making, machinist trade, plumbing, retail selling, telegraphy, etc. Akron—Thursday, 4:00 to 6:00 P. M.
- 4. EDUCATIONAL AND VOCATIONAL GUIDANCE. Second semester. Two credits.

An introductory course in guidance as an integrating influence in education. Youth must be oriented to social organization—a function as many phased as education itself. Guidance must be more than vocational, although the life career motive is the organizing factor. Canton—Monday, 10:00 to 12:00 P. M.

15de. Shop Management. First semester. Two credits. A study of housing conditions and factors governing the installation of equipment. Problems of shop maintenance, the securing of equipment and supplies, and the conduct of the shop. The reaction of equipment on the vocational program. Attention to the educational abilities and preparation of students. Variations in course content to meet students' abilities. Forms will be developed recording student progress, ordering supplies, reporting to administrative officers, etc. Akron—4:00 to 6:00 P. M., Thursday, Hower Trade School.

25. Organization of Instruction Material. First semester. Two credits.

Sources of course content; principles governing modern curriculum construction; effective arrangement of teaching content; application of governing principles. East Liverpool—10:00 to 12:00 A. M., Wednesday.

29. Methods of Teaching Occupational Subjects. First semester. Two credits.

Various methods of instruction in occupational subjects are studied and evaluated in terms of analysis and organization of curricular content and psychological principles are developed. Teaching devices are examined. Exemplary teaching plans are required and their use explained and constructively criticised. Cleveland—Friday, 4:00 to 6:00 P. M.

27. HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION. First semester. Two credits.

A brief survey of the development of Vocational Education. Its place in a democracy. Apprenticeship under the Guild System. Social and economic factors that have affected apprenticeship. Types of organization to meet present-day economic and social conditions. Theories underlying state and federal aid for Vocational Education. Canton—10:00 to 12:00 P. M., Monday. Akron—4:00 to 6:00 P. M., Monday, Perkins School. Youngstown—3:00 to 5:00 P. M., Tuesday.

32. INDUSTRIAL AND EDUCATIONAL Co-ORDINATION. Second semester. Two credits.

A consideration of the procedure necessary to arrive at the problems of the employed youth; type of information that may assist in instruction; attention to organizing, systematizing, and filing information; investigation of the nature of individual and group conferences with employed youth; co-ordination as the special problem of harmonizing all efforts to promote the educational welfare of working youth. Youngstown—Tuesday, 3:00 to 5:00 P. M.

# **EVENING AND SATURDAY COURSES**

Further information concerning Evening and Saturday courses which are offered throughout the year may be secured from the Acting Dean, or from the Director of the Evening Session.

THE EVENING SESSION 169

# THE EVENING SESSION

LOWELL L. HOLMES, M. A., Director

## GENERAL INFORMATION

All colleges of the University offer courses in the Evening Session. Credit is given toward a degree for regularly prescribed college subjects. Candidates for a degree must satisfy the entrance requirements of the University.

Besides offering the prescribed subjects leading to degrees, the various colleges have developed the following certificate courses which require approximately thirty-six hours of college work:

BUCHTEL COLLEGE OF LIBERAL ARTS: Writer's Course; Pre-

Legal Course.

College of Engineering and Commerce: Municipal Engineering, Industrial Electricity, Machine Design and Power, Industrial Production, Management, Accounting, Association Courses in Advertising, Real Estate, Purchasing, Private Secretarial and General Office.

# ACADEMIC CREDIT

College credit will be given on the basis of one credit hour for the completion of 15 clock hours of recitation work. Each hour of recitation should require two hours of library and home preparation to maintain college standards.

At the end of each semester the Registrar will mail the record of grades to the last known address of the student. On request, these records will be mailed to other colleges to apply toward a degree, or to the State Department of Education for certification, or to the student's employer.

# STUDENT'S SEMESTER LOAD

Students holding full-time positions will be permitted to take six semester hours of work (90 hours of recitation) during any semester. Additional hours must be approved in writing by the Director. Teachers employed in the Akron Public Schools must have special permission to register for more than four credit hours in one semester.

## 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. No student will be admitted to class work for credit after classes have been in session two weeks.

REGULAR: The requirement for regular admission is graduation from an accredited four-year high school and a quality of high school work equal to the passing grade of that school plus one-third the interval between the passing grade and 100.

Students who have had college work elsewhere must have transcripts sent to the University Examiner, by the institutions from which transfers are made, if advanced standing is desired, or if a plan of study is to be made.

Special: Those who are over 21 years of age may be admitted

as special students not candidates for degrees.

IRREGULAR: Students having a greater part of their undergraduate work at another college or university and who wish to return to that institution for a degree are classified as irregular students. It is advisable for the institution granting the degree to specify the subjects required for completion of the work for the degree.

Further information concerning admission may be found in the bulletins of the various colleges and the General Information Bulletin.

# **EXAMINATIONS**

A final examination is given in each subject for which credit is given. In examinations, as in class and home work, account is taken of the student's use of English, the form of the paper in general and the organization of material.

## GRADING SYSTEM

93-100 inclusive	Excellent	A
	Good	
77-84 inclusive	Fair	C
70-76 inclusive	Poor	D
D 1 70	Conditioned	Е
Below 70		F
Incomplete	(	I

"Conditioned" means that although the semester's work is not of passing grade the deficiency may be made up without repeating the course in class. Yailure to remove the deficiency satisfactorily by the close of the student's next semester in the University shall convert the grade to F. No higher grade than "D" shall be given for the removal of a "Condition."

The grade "conditioned" may be given only for the first semester's work in a subject continuing through two or more semesters.

"Incomplete" means that the student has done passing work in the course, but some part, for good reason, has not been completed. Failure to make up the omitted work satisfactorily within the first 6 weeks of the student's next semester in the University shall convert the grade to F.

# ATTENDANCE AND COLLEGE CREDIT

When a student has been absent from class twice as many hours as the subject offers credit in each semester, he may be dropped from the class upon recommendation of his instructor. Recommendation of the instructor and the approval of the Director are necessary for reinstatement.

## **DEGREES**

Students seeking credit toward degrees either at the University of Akron or any other university should see the University Examiner to make sure that their entrance credits meet the requirements. Each candidate for a degree at the University of Akron must declare his intention to graduate at the time of registration in the fall prior to the June graduation exercises. Each candidate shall comply with all rules and regulations of the college granting the degree.

# CONFERENCES BY APPOINTMENT

The Director will be available for consultation with students and prospective students each Wednesday evening after September 8, and at other times by appointment. The Deans of the Colleges or their representatives will interview by appointment students who are planning to take degrees in their respective colleges. Those wishing interviews on or after September 8 should apply at the Evening Session office.

# FEES AND EXPENSES

All fees are payable at the Secretary's office before the student enters classes.

# MAINTENANCE FEE

Evening Session, per semester:	
Resident Students:	
For 1 or 2 credit hours\$12.	00
For 3 credit hours18.	00
For 4 credit hours24.	00
For 5 gradit hours	M

Non-resident Students:

For 1 or 2 credit hours \_\_\_\_\_\_\$12.00 For 3 or more credit hours, per credit hour \_\_\_\_\_\_6.00

Evening Session Institute Lectures:
For a two evening course \$2.00

For more than a two evening course, in addition to the \$2.00, 50c per evening.

# GRADUATION FEE

Bachelor's degree	\$ 5.00
Master's degree	 0.00

## MISCELLANEOUS FEES

A fee of \$5.00 will be charged students who have not completed registration, classification and payment of fees before September 28 for the first semester, and February 8, for the second semester.

After a student has been classified a charge of \$1 will be made for any change in his program which is not made at the instance of the University authorities.

In evening courses involving laboratory work a fee of \$3.00 shall be charged for each hour of laboratory work in excess of the num-

ber of credit hours for those courses.

#### WITHDRAWALS

Necessary withdrawals on account of sickness or other cause entirely beyond the control of the student will be taken care of as the individual cases arise. Application for adjustment of fees and rules covering same may be obtained at the Director's office.

#### STUDENT ACTIVITIES

THE HILL-TOP EVENING STAR. The members of the Journalism classes publish this official organ of the Evening Session. It appears monthly during the college year and is distributed without charge to Evening Session students. Contributors are not limited to those taking the Journalism classes, but the greater benefit may be obtained by enrollment.

THE MANUSCRIPT CLUB encourages writing as a vocation through the production, improvement, and mutual criticism of manuscripts. Admission is given upon evidence of ability in writing. The club is sponsored by the Writers' Certificate Course and active membership is open to those who have taken three semesters of the course. An initial fee of \$2.00 will establish a working fund for publication of worthy manuscripts; additional fees will be charged as determined by members. The club is under the general direction of Professor Pease. Prominent writers are invited to speak and to lead discussions. Meets semi-monthly, Wednesday evenings, 8:00-9:30.

THE EVENING SESSION STUDENTS' ASSOCIATION promotes social and cultural activities among the students. The Student Senate, the directing force of the Association, is elected in a most democratic manner. Each semester at the first meeting of every class, each student gives a brief introduction of himself. During the second week the class elects two representatives. The first meeting of the representatives is held October 16 of the first semester and February 19 of the second semester, when seven senators are elected from the representatives to form the senate and elect officers to carry on the semester's business.

THE EVENING THEATRE is open to all students of the Evening Session who are interested in dramatics. An Evening Theatre Institute covering all phases of dramatics, including casting, directing, play production, stagecraft, lighting, acting and business management will be given. The Theatre gives one major production each semester and numerous short plays throughout the year. For details consult Professor Hayworth, or the Evening Session office.

STUDENT CLUBS. The following clubs of the University are open to membership for students of the Evening Session who fulfill certain requirements. For complete details see the clubs' advisers, who are as follows: Art Club—Professor Barnhardt; Biology Club—Professor Kraatz; Evening Theatre—Professor Hayworth; Commerce Club—Professor Leigh; French Club—Professor Reed; Spanish Club—Miss Fanning; Home Economics Club—Miss Lathrop; Manuscript Club—Professor Pease.

# **EVENING SESSION CALENDAR 1931-32**

First Semester							SEC	OND	Sem	ESTE	CR.			
1931			Da	ys						$\Gamma$	ays			1932
Month	M.	T.	W.	Th.	F.	S.	Week	M.	T.	W.	Th.	F.	S.	Month
Sept.				24	25	26					4	5	6	Feb.
Oct.	28	29	30	1	2	3	1	8	9	10	11	12	13	
	5	6	7	8	9	10	2	15	16	17	18	19	20	
	12	13	14	15	16	17	3	22	23	24	25	26	27	
	19	20	21	22	23	24	4	29	1	2	3	4	5	March
	26	27	28	29	30	31	5	7	8	9	10	11	12	
Nov.	2	3	4	5	6	7	6	14	15	16	17	18	19	
									Spr	ing .	Vaca	tion		
	9	10	11	12	13	14	7	28	29	30	31	1	2	April
	16	17	18	19	20	21	8	4	5	, 6	7	8	9	
	23	24	25	Th	anks	giving	9	11	12	13	14	15	16	
Dec.	30	1	2	3	4	5	10	18	19	20	21	22	23	
	7	8	9	10	11	12	11	25	26	27	28	29	30	
	14	15	16	17	18	19	12	2	3	4	5	6	7	May
	C	hris	tmas	Va	catio	n								
Jan.	4	5	6	7	8	9	13	9	10	11	12	13	14	
	11	12	13	14	15	16	14	16	17	18	19	20	21	
	18	19	20	21	22	23	15	23	24	25	26	27	28	
	25	26	27	28	29	30	16	30	31	1	2	3	4	June

# REGISTRATION

Main Lobby—Buchtel Hall—University Campus
East Buchtel Ave., at College Street

	THURSDAY	FRIDAY	Saturday
*First Semester	Sept. 24	Sept. 25	Sept. 26
*Second Semester	Feb. 4	Feb. 5	Feb. 6
	12 to 9 p.m.	12 to 9 p.m.	9 a.m. to 9 p.m.

Students who cannot be present in person should use mailing blank on last page of this bulletin.

Payment of fees in full must accompany all registrations by mail and unless they bear a post mark of midnight, September 26 or February 6, they must include the late registration fee of \$5.00.

Members of the faculty of each college will be present for consultation. Pre-registration can be arranged by appointment. Telephone, Blackstone 4124.

Class work and late registration begin September 28 and February 8.

No registrations will be accepted after October 10 and February 20.

# \*SCHEDULE OF CLASSES

# BUCHTEL COLLEGE OF LIBERAL ARTS

Cr. Days Hours Room Instructor
2 W. 5:50-7:50 O 25 Kraatz t 2 Th. 5:50-7:50 O 25 Plowman 2 M. 5:50-7:50 O 25 Fox 2 Th. 5:50-7:50 O 23
2 T. 8:00-10:00 K 22 Cook 2 W. 8:00-10:00 K 22 Simmons 2 Th. 8:00-10:00 K 22 Haas 2 M. 8:00-10:00 E 5 Schaefer
IOLOGY  3 MW. 8:00-9:30 B 26 Holmes  3 MW. 8:00-9:30 B 32 DeGraff  3 MW. 8:00-9:30 B 32 DeGraff  2 M. 8:00-10:00 O 21 Anthony
3 MW. 6:20-7:50 E 34 Raw 3 TTh. 8:00-9:30 B 13 Stickney 3 TTh. 6:20-7:50 B 13 Stevenson 3 TTh. 8:00-9:30 B 25 Pease 3 MW. 6:20-7:50 B 32 Spanton 3 MW. 6:20-7:50 B 32 Spanton
3 W. 5:50-7:50 B 22 Vance 3 W. 5:50-7:50 B 22 Vance 2 T. 8:00-10:00 B 11 Vance 2 W. 8:00-10:00 B 14 Vance
3 MW. 6:20-7:50 B 25 Gardner
2 T. 5:50-7:50 CC yer_ 2 Th. 5:50-7:50 CC Maxwell(2) M. 5:50-7:50 CC Holloway 2 W. 5:50-7:50 CC Lathrop
(2) T. 8:00-10:00 B 38 Bailey 4 MW. 5:50-7:50 B 38 Selby 4 MW. 5:50-7:50 B 38 Bender 2 Th. 8:00-10:00 B 38 Lipscombe 3 MW. 6:20-7:50 B 38 Jones 2 T. 8:00-10:00 B 26
4 TTh. 5:50-7:50 B 22 Bulger 2 M. 8:00-10:00 B 22 4 TTh. 5:50-7:50 B 11 Fanning 2 M. 5:50-7:50 B 11 Reed 3 MW. 8:00-9:30 B 15 Maturo
Th. 8:00-10:00 B 38

\*ABBREVIATIONS USED IN CLASS SCHEDULES AND COURSE DESCRIPTIONS

B refers to Buchtel Hall; CC to Curtis Cottage; E to Engineering building; K to Knight Laboratory; MH to Music House; O to Olin Hall; PH to Phillips Hall; SS to Spicer School. The number after each letter indicates the room in which the class will recite.

The letter "e" following a course number indicates that it is an evening session course only. "de" following a number indicates both day and evening sessions. "s" indicates summer session.

1-2 under "Semester" in class schedules indicates the course is to continue the second semester; 1.2 indicates that it is repeated.

Parentheses marks () around figures under "credit" indicate that no college credit is given for the course.

Other abbreviations used are ME, Mechanical Engineering; M, Machine Design; Mu, Municipal Engineering; C, Commerce; A, Liberal Arts; S, Secretarial Science; T, Teachers College.

Sem	ester Subject	Cr.	Days	Hours	Room	Instructor
1-2 1-2	PHILOSOPHY History of Philosophy Introduction to Philosophy	3		8:00-9:30 6:20-7:50	B 22 B 15	Donley Donley
1-2	PHYSICS Beginning Physics	3	MW.	6:20-7:50	O 21	Householder
1 2 1 2	POLITICAL SCIENCE Problems of Citizenship, A1e Elements of Law, A10e Municipal Government, A5e Municipal Administration	2	T. MW.	5:50-7:50 5:50-7:50 8:00-9:30 8:00-9:30	B 32 B 32 B 11 B 11	Crecraft Crecraft Sherman Sherman
1-2 1-2 1 2 1-2 1-2 1.2. 1.2.	SPEECH Voice-Speech, A33e-34e	3 3 3 3 (2) 2	TTh. MW. MW. TTh. MW. T.	8:00-9:30 6:20-7:50 6:20-7:50 6:20-7:50 4:30-6:00 6:20-7:50 5:50-7:50 8:00-10:00 5:50-7:50	B 12 B 12 B 12 B 12 B 13 B 12B B 37 B 15	McEbright McEbright Hayworth Hayworth Hayworth Dye Turner Turner

# COLLEGE OF ENGINEERING AND COMMERCE

Sem	ester Subject C	Cr.	Days	Hours	Room	Instructor		
ENGINEERING								
1-2	Engineering Drawing, M1-2e 6	;		6:20-9:30	E 41	Wilson		
1-2	Engineering Drawing, M1-2e(3	()		8:00-9:30	E 35	$\mathbf{\underline{U}}$ pp		
1-2	Machine Drawing, M12-13e(3	()	TTh.	6:20-7:50	E 35	Upp		
1-2	Shop Mathematics (Firestone)(2	?	Th.	7:30-9:30	E 35	Griffin		
1-2 1-2	Practical Mathematics(3	2		6:20-7:50 6:20-7:50	E 6 E 5	Smith		
1-2	Practical Mechanics	X .		8:00-10:00	E 15	Adendorff		
1-2	Industrial Mgt. Problems(2 Foremanship(1	2	w.	6:20-7:50	E 32	Adendorff		
i	Industries(1	231	w:	8:00-9:30	E 32	Adendorff		
<b>^</b> 2	Foremanship Problems(1	23	w:	6:20-7:50	E 32	Adendorff		
2	Industrial Economics(1	23		8:00-9:30	E 32	Adendorff		
1-2	Surveying, Mu3-4e (3	3"	M	R • 00-10 • 00	F 6	Durst		
1-2	Surveying, Mu3-4e(3 Strength of Materials, Mu3-6e(2 Concrete Laboratory, Mu9e(2	Ś	Th.	8:00-10:00	Ē 15	Bulger		
1	Concrete Laboratory, Mu9e(2	Ó	T.	8:00-10:00	E 15	Durst		
2	Reinforced Concrete, Mulue(2	•	Ť.	8:00-10:00 8:00-10:00 8:00-10:00	E 15	Bulger		
1-2	Industrial Electricity, 31-32e(3 Elements of Radio(3	)	MW.	8:00-9:30	E 10	Walther		
1-2	Elements of Radio(3	)	MW.	6:20-7:50	E 10	Smith		
	COMMERCE							
1-2	Accounting, C21-22e, Sec. A 3			6:00-7:50	E 13	Tinklepaugh		
1-2	Accounting, C21-22e, Sec. B 3			8:00-9:50	E 13	Tinklepaugh		
1-2	Accounting, C21e-22e, Sec. C 3	,		6:00-7:50	E 13	Daverio		
. 2	Preliminary Accounting(3	)		6:00-7:50	E 13	Daverio		
1	Managerial Accounting, C23e 3			6:20-7:50	E 33	Tinklepaugh		
2	Advanced Accounting, C32e 3		TTh.	6:20-7:50	E 33	Tinklepaugh		
1-2 1-2	Cost Accounting, C33-34e	:	TIn.	6:20-7:50 8:00-9:30	E 34 E 34	McKee McKee		
1-2	Auditing 3 Financial Org. & Mgt. 3		11n.	6:20-7:50	O 21	Van Metre		
1-2	Business Geography 2		M W.	8:00-10:00		Van Metre Van Metre		
1-2	Business Org. & Mgt., C61-62e 3			6:20-7:50	O 21	Leigh		
i	Planned Marketing	<u> </u>	Th.	8:00-10:00		Leigh		
_ 2	Retailing 2 Advertising, 87e 3 Advertising Campaigns, 88e 3		Th.	8:00-10:00		Leigh		
1	Advertising, 87e3			8:00-9:30	O 25	Lewers		
2	Advertising Campaigns, 88e 3	,		8:00-9:30	O 25	Lewers		
1-2	Economic Development of the U.S. 2		w.	8:00-10:00	B 25	Anthony		
1.2.	Salesmanship1	1/2	М.	6:20-7:50	K 22	Ammerman		
1-2	Business Law2	.,	Th.	8:00-10:00	B 26	Powers		
1	Real Estate Practice 1		w.	6:20-7:50	E 15	Hall		
2 1-2	Real Estate Appraisals 1	/2	W.	6:20-7:50	E 15 B 25	Hall		
1-2	Essentials of Life Underwriting Inst.	•	In.	6:30-8:00 8:30-10:30	D 23	Holmes		
1-2	C. L. U. Coaching Institute							

Seme	ster	Subject		Cr.	Days	Hours	Room	Instructor
1.2. 1 1.2. 1-2 1-2	Secretaria Business Business Business Business Beginnin Beginnin	al Duties, S3 English, S11 English, S11 Corresponder g Shorthand, g Typing, S.  7r. Shorthand, Shorthand,	e, Sec. A	2 2 3 2 3 3	W. T. TTh. M. 6: TTh. TTh.	8:00-9:30 5:50-7:50 5:50-7:50 8:00-10:00 8:00-9:30 00-8:00 and 6:20-7:50 8:00-9:30 6:20-7:50	B 15 E 14 E 14 E 14 C-7 C-7 C-8 C-8	Tenney Cohen Doutt Doutt Wakefield Tenney Flint Flint
Sama	oter	Subject		Cr	Dave	House	Poom	Instructor

	TEACHER	C	COLL	LEGE		
Sem	ester Subject	Cr.	Days	Hours	Room	Instructor
ART						
1	Structural Art, Tle	2	М.	6:30-9:30	$\mathbf{PH}$	Whorl
2	Elementary Art, T15e	2	м.	6:30-9:30	$\mathbf{PH}$	Whorl
1	Design, T3e	2	w.	6:30-9:30	PH	Barnhardt
1	Crafts, T4e	2	Th.	6:30-9:30	$\mathbf{PH}$	Barnhardt
2	Etching, T7e	2	Th.	6:30-9:30	$\mathbf{PH}$	Barnhardt
1	Clay Modeling, T9e	2	W. W.	6:30-9:30	$\mathbf{PH}$	Cable
2	Modeling, Ti0e	2	w.	6:30-9:30	$\mathbf{PH}$	Cable
1-2	Commercial Art, T23-24e	2	Th.	6:30-9:30	PH	Cable
1-2	Pose, T19-20e	2	w.	6:30-9:30	PH	Barnhardt
1-2	ART Structural Art, T1e Elementary Art, T15e Design, T3e Crafts, T4e Etching, T7e Clay Modeling, T9e Modeling, T10e Commercial Art, T23-24e Pose, T19-20e History of Art, T25-26e	2	М.	6:30-8:30	PH	
	TOUCATION					
1-2	Story Telling, T11-12e Language, Content & Method, T36e Reading, Content & Method, T35e. Educational Sociology, T7de Geography of North America, T3de	2	м.	5:50-7:50	B 37	Kemler
1	Language, Content & Method, T36e	2	w.	5:50-7:50	B 15	Kemler
2	Reading, Content & Method, T35e.	2	W.	5:50-7:50	B 15	Kemler
1	Educational Sociology, T7de	2	w.	5:50-7:50	B 26	Snyder
1	Geography of North America, T3de	2	M.	8:00-10:00	B 25	Snyder
2	Principles of Geography, Tle	2	M.	8:00-10:00	B 25	Snyder
2	Principles of Geography, Tle					
	T37de	2	w.	5:50-7:50 8:00-9:30	B 26	Snyder
1	History of Education in U. S., T3de	3	T <b>Th</b> .	8:00-9:30	B 37	Evans
2	School Mgt. & Administration, T15de	•	m.		D 05	
	Tibde	2	Th.	5:50-7:50	B 25	Evans
1.2.	Personal Hygiene, T31e	2	T.	8:00-10:00	B 32	Smith
1-2	School Health, T29-30e	Z	Th.	8:00-10:00	B 32	Smith
	MUSIC Elementary Harmony, T1-2e History and Apprec. of Music, T35- 36e Public School Music Methods, T21- 22e Rhythm Band Orchestra	_				
1-2	Elementary Harmony, T1-2e	2	w.	5:50-7:50	MН	Ende
1-2	History and Apprec. of Music, T35-	_	_			
	36e	2	T.	8:00-10:00	$\mathbf{M}\mathbf{H}$	Ende
1-2	Public School Music Methods, T21-	_				
_	22e	2	<u>w</u> .	5:50-7:50	CC	Rider
1	Rhythm Band	2	Th.	5:50-7:50	CC	Rider
1-2			М.	5:50-7:50	MH	Chapman
	PSYCHOLOGY General Psychology, T1e Child Psychology, T5e Educational Psychology, T3e Psychology of the Exceptional Child, T4e Psychology of El Sab Sabita					
1	General Psychology, Tle	3	MW.	8:00-9:30	B 13	Wood
1	Child Psychology, T5e	2	Th.	5:50-7:50	B 26	Hayes
2	Educational Psychology, T3e	2	w.	8:00-10:00	B 13	Wood
2	Psychology of the Exceptional					
	Child, T4e	2	Th.	<b>5</b> :50-7:50	B 26	Hayes
2	Psychology of El. Sch. Subjts	2	Sat.	8:00-10:00	SS	Wood
	VOCATIONAL EDUCATION	r			Per-	
1	His & Phil of Voc Education	'ء	M.	4:00-6:00	kins	Croonly
i	His. & Phil. of Voc. Education His. & Phil. of Voc. Education at	-	MI.	4:00-6:00	KIIIS	Greenly
1	Canton	2	М.	10:00-12:00		Greenly
1	His. & Phil. of Voc. Education at	-	ж.	10.00-12.00		dicenty
-	Youngstown	2	T.	3:00-5:00		Greenly
		-			Youngs	
2	Ind. & Educa. Coordination	2	T.	3:00-5:00	town	Greenly
1	Shop Management, T16de	2	Th.	4:00-6:00	HTS	Greenly
1-2	Org. Inst. Material for Ind. Arts					
	Shop Management, Ti6de Org. Inst. Material for Ind. Arts Teaching, T23-24e Occupational Analysis Educa. & Voc. Guidance	2	W.	4:00-6:00	B 13	Moore
2	Occupational Analysis	2	Th.	4:00-6:00	B 13	Greenly
2	Educa. & Voc. Guidance	2	M.	10:00-12:00	Canton	Greenly
					East	
					Liver-	
1	Org. of Inst. Material	2	w.	10:00-12:00	pool	Greenly
	Markets of Make Co. C.	•		4 00 1 00	Cleve-	
1	Methods of Tchg. Occup. Sub	2	F.	4:00-6:00	land	Greenly

# GRADUATE COURSES

Seme	ester Subject	Cr.	Days	Hours	Room	Instructor
1 1 2 1 2 2	EDUCATION  Mod. Tendencies in Edu., T101e Educational Philosophy, T113e Supv. Student Teaching, T114e Technical Research, T120e Educa. Statistics Hist. & Phil. of Edu., T122e	2 2 2 2	W. Th. W. T. Th.	5:50-7:50 5:50-7:50 5:50-7:50 5:50-7:50 5:50-7:50 5:50-7:50	B 38 B 37 B 38 B 37 B 37 B 37	Kuhnes Kuhnes Kuhnes Evans Evans Kuhnes
1 2 2 1	PSYCHOLOGY Social Psychology, T102e	2	T. T. W. W.	5:50-7:50 5:50-7:50 5:50-7:50 5:50-7:50 5:50-7:50	B 26 B 26 B 37 B 37	Hayes Hayes Wood Wood
1 2	EDUCATION Supv. of Instr., T117dePub. Sch. Admn., T112e	. 2	Sat. Sat.	8:00-10:00 8:00-10:00	SS SS	Evans Evans
1 1	PSYCHOLOGY Advanced Psychology, T103de Abnormal Psychology, T106de Psychology of Adolescence, T109e	. 2	Sat. Sat. Sat.	10:00-12:00 10:00-12:00 8:00-10:00	SS SS SS	Hayes Hayes Wood

# BUCHTEL COLLEGE OF LIBERAL ARTS

# A. I. SPANTON, A. M., Dean

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. See Liberal Arts College Bulletin for requirements.

#### PRE-LEGAL TRAINING

Admission to the bar in Ohio requires at least 60 hours of college training in addition to the regular four year high school training. The following subjects given in the Evening Session are suggested to fulfill the college training requirements:

English12 credit hours	
Economics 6 credit hours	
Political Science 6 credit hours	
History12 credit hours	Sociology 3 credit hours

## WRITERS' CERTIFICATE COURSE

It is the purpose of this course, under the direction of Professor Pease, to train individuals from all walks of life in the art and technique of writing. The objective may be measured in two ways: by publication and by personal satisfaction of presenting ideas in a logical and orderly fashion.

The certificate is presented upon completion of 36 credits and evidence of proficiency in the field of writing. Eighteen credits are required and the other

18 credits may be elected, as follows:

Required	
Rhetoric, A1-2de	6
Advanced Composition, A3de	
The Essay	
Writing the Short Story, A5e	3
Dramatic Development in Fiction	3

#### ELECTIVE

Development of the English Novel 3, English Literature 6, American Literature 6, Types of Literature 6, The Modern Drama 3, The English Drama 3, Sociology 3, Industrial History 3, Manuscript Club, No Credit, English or American History 6, Economics 3, Psychology 3.

# **BIOLOGY**

PROFESSOR PLOWMAN, ASSISTANT PROFESSORS KRAATZ, FOX

A63-64de. Insects and Man. Two credits each semester. An elementary consideration of Insects, and their economic and sanitary relations to mankind. Structural adaptations of insects and

their fitness for survival; insects in relation to agriculture, and propagation of insects; insects as carriers of diseases, etc. W., 5:50-7:50.

75-76e. Genetics and Human Development. Two credits each semester.

A study of the principles of inheritance as applied to the development, and possible betterment of the human race. A textbook is used and considerable reference reading is required. Th., 5:50-7:50.

69-70e. Advanced General Botany. Two credits each semester. A continuation of General Botany 67-68e, which is a prerequisite. Studies of the comparative anatomy, natural history, identification and classification of native mosses, ferns and seed plants. The two semesters' work is equivalent to Botany 32 in the Day Session, and may be applied to absolve the requirements of one year's work in laboratory science. Th., 5:50-7:50.

71-72e. Bacteriology. Two credits each semester. Lectures and demonstrations dealing with Bacteriology and its applications to everyday life. The uses of bacteria in the arts, and its applications to domestic, industrial and natural processes. Disease-producing bacteria. The student should have some knowledge of elementary biology and physiology. M., 5:50-7:50.

## **CHEMISTRY**

Professor Simmons, Assistant Professors Cook and Schaefer, Mr. Haas

9-10e. Advanced Organic Chemistry. Two credits each semester.

A lecture course limited to the study of special topics such as dyes, drugs, essential oils, synthetic reagents, etc. Only students who have had a year's work in organic chemistry may enroll. Th., 8:00-10:00.

13-14e. Physical Chemistry. Two credits each semester. Lectures and recitations supplemented by some lecture demonstration. The first semester will be devoted to study of gases, liquids, solids and solutions. The second semester's work will include a physical and chemical equilibrium, electro-chemistry, thermodynamics and atomic structure. Prerequisites, Calculus, Physics, Organic Chemistry. T., 8:00-10:00.

15-16e. Rubber Chemistry. Two credits each semester. A discussion of analysis of vulcanized rubber, physical testing, theories of vulcanization, constitution of rubber, synthetic rubber, accelerators, softeners, anti-oxidants, reclaimed rubber and substitutes. Prerequisite, Organic Chemistry. W., 8:00-10:00.

METALLURGY. Two credits each semester.

For men in industry. The manufacture of pig iron, wrought iron, Bessemer steel, open hearth and electric furnace steels will be studied. The mechanical treatment of steel, defects in steel and mill inspection. Methods used in forging and heat-treating various grades of steel. Also the fuels, furnaces and materials used. Lectures, recitations, and laboratory work in pyrometry, heat treatment, microscopic examination and physical testing of steel. M., 8:00-10:00.

#### ECONOMICS AND SOCIOLOGY

Associate Professor DeGraff, Assistant Professors Holmes and Anthony

A1-2de. Principles of Economics. Three credits each semester. Basic principles and concepts in economics, including the production, consumption and distribution of wealth; business organization; capitalistic combination; problems of labor; prices, wages, interest, rent and profits; money, credit and banking; international trade, economic crises, transportation, agricultural problems, risks and insurance, taxation and public expenditures. This course or its equivalent is required for entrance for credit to other advanced courses. M., W., 8:00-9:30.

A1de. General Sociology. First semester. Three credits. The basic concepts and methodology of Sociology. A systematic study of the origin, structure, development, and function of social groups. Surveys of various fields of Sociology. M., W., 8:00-9:30.

A2de. Social Pathology. Second semester. Three credits. A survey of pathological conditions and processes in modern society and the social factors involved in widowhood, divorce, prostitution, alcoholism, old age, poverty, unemployment, juvenile and adult delinquency, and physical and mental defectiveness. M., W., 8:00-9:30.

A7e. Labor Problems. First semester. Two credits. Labor organization and legislation in America, the conflict between employers and employees, efficiency and welfare of the worker, and various voluntary and legal methods employed by laborers, employers, and the public in an attempt to promote industrial peace. M., 8:00-10:00.

#### **ENGLISH**

DEAN SPANTON, PROFESSOR PEASE, ASSISTANT PROFESSORS MITCHELL AND RAW, MISS STEVENSON, MR. STICKNEY, MISS GOODMAN

A1-2de. Rhetoric. Three credits each semester. Elementary instruction in English composition; practice in expressing ideas. First semester, sentence and paragraph structure; the writing of short expository compositions. Second semester, analysis of description, argument, and narration, and the writing of longer papers within these types of composition. M., W., 6:20-7:50, Sec. A; T., Th., 8:00-9:30, Sec. B.

A2de. Rhetoric. First semester. Three credits. This class will be given for those students who have satisfactorily completed Rhetoric Ale providing fifteen or more register. T., Th., 6:20-7:50.

A5e. SHORT STORY WRITING. First semester. Three credits. Given in 1932-33.

A31de. Shakspere. First semester. Three credits. The development of Shakspere as a dramatist and his place in the Elizabethan Age and in the history of English literature. Most of the plays are read. Prerequisite, A1-2de. M., W., 6:20-7:50.

A38de. THE ENGLISH BIBLE AS LITERATURE. Second semester. Three credits.

The object of this course is to help the student see the beauty and power of the Bible as literature, its narrative, exposition, and poetry. Prerequisite, A1-2e. M., W., 6:20-7:50.

A45-46de. AMERICAN LITERATURE. Three credits each semester. After a 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, A1-2de. T., Th., 8:00-9:30.

S4e. Business English. Either semester. Two credits. Described under Secretarial Science.

## **JOURNALISM**

## Mr. VANCE

1e. NEWS WRITING AND EDITING. First semester. Three credits. The writing and editing of news; lectures by the instructor and by members of the staffs of Akron newspapers; assigned reports; exercises; textbook work. Members of the class write and help edit The Hilltop Evening Star, monthly newspaper of the Evening Session. W., 5:50-7:50.

2e. Contemporary Journalism. Second semester. Three credits. Continuation of News Writing and Editing with emphasis on the profession as a whole; staff organization, newspaper policies, and modern trends. Students may enroll in this course without having taken News Writing and Editing. Laboratory work in connection with The Hilltop Evening Star. W., 5:50-7:50.

A20de. Feature Writing. First semester. Two credits. The writing of special feature articles for newspapers and magazines will be studied, with especial attention to the style and construction of these articles. Students will be urged to submit articles for publication. The course includes textbook study. Considerable writing is required. T., 8:00-10:00.

4e. Editing. Second semester. Two credits.

This class has charge of editing The Hilltop Evening Star, the evening session student newspaper. Problems of publishing the paper form the basis of informal discussions. Practice in headline writing, copyreading and makeup. Prerequisite, News Writing 1e or Contemporary Journalism 2e or the equivalent.

#### HISTORY

#### ASSOCIATE PROFESSOR GARDNER

A7-8de. HISTORY OF MODERN EUROPE. Three credits each semester. The first semester covers the History of Europe from 1815 to 1870. In the second semester special attention is given to present-day problems. Prerequisite, permission of instructor. M., W., 6:20-7:50.

## HOME ECONOMICS

## PROFESSOR MAXWELL, MISS LATHROP

- 31e. Pre-School Child Development. Either semester. Two credits.
- •For parents, kindergarten teachers and home economics teachers, taking up the problems of social and habit development in relation to mental and physical development of the young child. T., 5:50-7:50.
- 37-38e. Problems of the Household Buyer. Two credits each semester.
- The buying of garments, yard goods, hosiery, shoes, hats, accessories, household linens, carpets, draperies. Emphasis on judgment of economic values and wearing qualities. Th., 5:50-7:50.
- 39e. FOOD FOR SPECIAL OCCASIONS. First semester. Two credits. A course in planning, preparing and serving foods for teas, luncheons, dinners, bridges, parties, and holiday meals. Laboratory fee, \$5.00. M., 5:50-7:50.

12-13e. Clothing Selection. Two credits each semester. What it means to be well dressed. A study of suitable lines, colors and textures for individuals of varying types, figures and coloring. Accessories and their use in the costume. Clothing budgets. W., 5:50-7:50.

#### **MATHEMATICS**

Professor Jones, Assistant Professors Bender and Selby, Miss Lipscombe, Mr. Bailey

A1de. College Algebra. Either semester. Four credits. A review of surds and exponents; linear and non-linear equations; proportion and variation, progressions, mathematical induction, binomial theorem, permutations, combinations, probability, complex numbers, determinants. M., W., 5:50-7:50.

1e. Algebra. First semester. Two hours. No college credit. Students who are not prepared to take up College Algebra will take elementary algebra leading up to the study of simultaneous quadratics. T., 8:00-10:00.

A2de. TRIGONOMETRY. Second semester. Four credits. Angles and their measurements; the trigonometric functions, fundamental identities, reduction theorems, addition and multiplication theorems, trigonometric equations, inverse trigonometric functions, right and oblique triangles, logarithms. M., W., 5:50-7:50.

A3-4e. ANALYTICS. Two credits each semester. A study of the straight line, circle, conic sections, and polar curves; transformation of co-ordinates, higher algebraic and transcendental curves, and a brief treatment of space co-ordinates and loci. May be studied simultaneously with Calculus. Prerequisite, A1 and A2e. Th., 8:00-10:00.

A5de. DIFFERENTIAL CALCULUS. First semester. Three credits. The differentiation of functions of a single variable, maxima and minima, curve tracing, and simple applications to mechanics. Prerequisite, 1, 2, 3, 4. M., W., 6:20-7:50.

A6de. Integral Calculus. Second semester. Three credits. General and special methods of integration, definite integrals, partial differentiation and applications to geometry, mechanics and physics. Prerequisite, 5. M., W., 6:20-7:50.

A11-12de. DIFFERENTIAL EQUATIONS. Two credits each semester. The solution of the differential equations which arise in the study of geometry and physics. Prerequisites, Differential and Integral Calculus. T., 8:00-10:00.

#### MODERN LANGUAGES

# Professors Bulger, Young, Assistant Professor Reed, Miss Fanning

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 will receive only half credit for the work. Students who have had one year's work in a secondary school will receive half credit if they take the first year's work. Students who have had two or more years' work in a secondary school will receive no credit if they take the first year's work. Advanced courses will be offered for a registration of fifteen students.

A1-2de. Beginning French. Four credits each semester. A thorough study of grammar with especial emphasis upon dictation and oral work. In the second semester work, grammar is continued with reading of two hundred or more pages of French. T., Th., 5:50-7:50.

A5-6e. French Conversation and Literature. Two credits each semester.

One hour of conversation based on French daily life, and one hour of reading of short stories, plays and perhaps one novel. Prerequisite, one year of college French, or equivalent. M., 5:50-7:50.

A1-2de. Beginning German. Four credits each semester. Elementary grammar. Reading of easy prose and verse. Practice in speaking and writing German. T., Th., 5:50-7:50.

5-6e. German Daily Life. Two credits each semester. A course for students with a fair background in German which they wish to refresh. The material will be based upon the colloquial language of everyday conversation. Such treatments of grammar as seem to be needed by the class will be given. This course is Third Year German. M., 8:00-10:00.

A3-4de. Second Year Spanish. Three credits each semester. Reading, Conversation and Composition. M., W., 8:00-9:30.

## **PHYSICS**

#### PROFESSOR HOUSEHOLDER

Ale. General Introductory Physics. First semester. Three credits.

Mechanics. A general introduction to physics. Topical reports will be required. A standard textbook will be followed. M., W., 6:20-7:50.

A2e. General Introductory Physics. Second semester. Three credits

Heat, magnetism and electricity. Topical reports will be required. M., W., 6:20-7:50.

#### PHILOSOPHY

#### Mr. Donley

8e. HISTORY OF PHILOSOPHY. Three credits each semester. The development of reasoned human thought; a study of theories in their relation to one another, their times and their originators. T., Th., 8:00-10:00.

9e. Introduction to Philosophy. Three credits each semester. To orient the student in systems of thought; realism, neorealism, empiricism, rationalism, pragmatism, idealism; to awaken individual reflection. T., Th., 6:20-7:50.

Comparative Religions. Second semester. Three credits. The object of this course is to isolate the social and economic forces that have provided the source of stimulation in the world's religions, and by the historical method compare the peculiar ways in which religious thought has expressed itself. Some attempt is made to orient the student in the nomenclature of the various religions. Given in 1930-31 only.

#### POLITICAL SCIENCE

PROFESSOR CRECRAFT, ASSISTANT PROFESSOR SHERMAN

A1e. Problems of Citizenship. First semester. Four credits. An introductory course including basic social, economic, and political problems of American social and civil life. T., Th., 5:50-7:50.

A10de. Elements of Law. First semester. Two credits. A survey of and introduction to the study of law. Topics include kinds of law, interpretation of law, personal and property rights, crime, domestic relations, contracts, agency, torts, judicial procedure, and legal remedies. T., 5:50-7:50.

A5de. Municipal Government. First semester. Three credits. The city in civilization, history of city government in the United States, relation of the city to the state, mayor and council plans of government, the commission plan, the city manager plan, municipal election problems, and government of metropolitan areas. M., W., 8:00-9:30.

A6de. Problems of City Administration. Second semester. Three credits.

Municipal functions and problems. Administrative organization, selection of personnel, budgets, purchasing revenues, police and fire administration, charities and correction, parks and recreation, refuse disposal, sewerage, control of utilities, and other problems. M., W., 8:00-9:30.

#### SPEECH

PROFESSOR HAYWORTH, ASSISTANT PROFESSOR McEbright, Miss Dye, Mr. Turner

Alde. Public Speaking. First semester. Three credits. A general course in practical public speaking and to satisfy graduation requirements. M., W., 6:20-7:50.

A9de. RADIO SPEAKING. Second semester. Three credits. Practice in speaking over the microphone. Preparing material for broadcasting, including announcing, radio plays, sound effects, advertising, program building, and preparation of continuity. M., W., 6:20-7:50.

10e. Business Men's Public Speaking. Either semester. Two credits.

Study, lectures, and practice. This class, designed for salesmen and business men, is limited to twenty-five who are willing to enter heartily into class practice. M., 8:00-10:00.

11e. Business Women's Public Speaking. Either semester. Two credits.

For description see Business Men's Public Speaking above. M., 5:50-7:50.

A32-33de. Interpretation. Three credits each semester. A study of dialect, humorous and dramatic readings and rehearsals in preparation for their presentation. T., Th., 6:20-7:50.

A33-34e. Voice and Speech. Three credits each semester. The purpose is to improve the quality of the voice for speech. Attention also to improvement of articulation. T., Th., 8:00-9:30.

A41-42e. Speech Correction. Three credits each semester. A study of the nature and treatment of such functional speech defects as stuttering, lisping, baby talk, foreign accent, and dialect, and of such organic defects as cleft palate, paretic cases, and malocclusion. M., W., 6:20-7:50.

47-48e. ELIMINATION OF FOREIGN ACCENT. No credit. For those who have learned another language before taking up English. Each person's speech will be analyzed, and his needs discovered, and such instruction in phonetics as is necessary given. T., 5:50-7:50.

A81-82de. Phonetics. Three credits each semester.

A study of the physiology of vocalization and of the sounds used in all languages, together with the laws of phonetic change and the nature of dialectal differences. Attention to modern European languages and emphasis on American pronunciation. A graduate course for students of English, Speech and Modern Languages. Students wishing to enroll must obtain the consent of the instructor. T., Th., 4:30-6:00.

## COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., Dean

Training and experience in industry during the day with technical and business studies at night approaches very closely the co-operative course offered to the day students.

## TWO-YEAR REGULAR ENGINEERING COURSE

The following subjects may be taken in the Evening Session with the aim of completing two years toward a degree in Engineering.

Freshman Year	Cr. Hrs.	Sophomore Year	Cr. Hrs.
Rhetoric Surveying College Algebra Trigonometry Engineering Drawing *Freshman Mechanics	6 4 4 6	Analytic Geometry Public Speaking *Descriptive Geometry *Physics (Sophomore Mechanic Electives: Accounting, Econo lish Literature and such otl as are approved by the Dea	s) 6 mics, Eng- ner courses

\*Not given in 1931-32 unless fifteen persons apply.

Before he starts work toward an engineering degree the student's appplication for admission must be approved by the University Examiner. It is understood that students attempting to complete two years of work in the evening will try to continue their work on the co-operative basis for the Pre-Junior, Junior and Senior years. Students entering this work should consult with Dean Ayer and Professor Gilmour regarding their qualifications and their plans for completing work for the engineering degree.

## ENGINEERING CERTIFICATE COURSES

All departments have planned certificate courses especially designed to fit students for greater service in industry. Registration by qualified adults may be made for all or any part of these planned certificate courses.

Application for entrance to the technical certificate courses of the Evening Session should be made as early as possible in September. Application form will be mailed upon request and as soon as the form is filed with the Evening Session office an appointed time for consultation will be arranged. For the best interests of the students in these courses only those qualified to carry on this type of study will be admitted to the work.

## MACHINE DESIGN AND POWER CERTIFICATE COURSE

## Professors Griffin, Gilmour, Assistant Professor Upp, Mr. Wilson

The purpose of the Machine Design and Power Course is to train students to become draftsmen and machine designers and to give a mechanical training that will be valuable to men engaged in various technical positions in industry.

Semest	ter FIRST YEAR . Hours	Semester	THIRD YEAR	Hour
1-2 1-2	Practical Mathematics, M1-2e 6 Engineering Drawing, ME1-2e 6	M1	n Boilers and Combust Be Engines and Turb	2
1-2 1-2	SECOND YEAR Practical Mechanics, M3-4e 6 Machine Drawing, M12-13e 6	M1 1 Mach 2 Gas a	ine Design, M17e	2 2 e 2

- M1-2e. Practical Mathematics. Three hours each semester. The fundamentals of arithmetic, algebra, geometry and trigonometry, in solving engineering problems. Special emphasis on mensuration, solution of algebraic equations and triangles. T., Th., 6:20-7:50.
- ME1-2e. Engineering Drawing. Three hours each semester. Selection, care and use of instruments; exercises in lettering, sketching and mechanical drawing; orthographic projections, isometric and oblique drawing. T., Th., 8:00-9:30.
- M12-13e. Machine Drawing. Three hours each semester. Detail and assembly drawings of machine parts; elementary mechanism and machine design. T., Th., 6:20-7:50.

#### MUNICIPAL ENGINEERING CERTIFICATE COURSE

## PROFESSOR DURST, ASSISTANT PROFESSOR BULGER

The Municipal Engineering Course has been prepared primarily for young men employed by the various service departments of the city, county, and state, and for those who desire to enter such work. Men who are unable to take a regular college degree course, can in this way prepare themselves for positions in the highway, sewer, and water departments. All of the equipment of the engineering college is available to students in the course, including all surveying equipment, and testing machines for tension, compression and torsion. A complete set of laboratory equipment is used for testing of concrete.

Semeste	er FIRST YEAR	Hours	Semes	ter THIRD YEAR	Hours
1-2	Surveying, Mu3-4e	6	1-2	Strength of Materials, Mu5-6 Concrete Laboratory, Mu9e	ie 4
1-2	Surveying, Mu3-4e Practical Mathematics, Mi	l-2e 6	1		
			_	(1931-32)	
	SECOND YEAR		2	Reinforced Concrete, Mu10	
1.2	Practical Mechanics M3.4e	6	1.2	(1931-32) Municipal Engineering, Mula	3.
1-2	Practical Mechanics, M3-4e Engineering Drawing, ME	1-2e 6	1-2	14e	4

Mul-2e. Surveying. Three hours each semester. Lectures, problems and field work. Use of the tape, level, and transit. Computing areas, note-keeping, and mapping. Saturday afternoon will be devoted to field work from October 10 to November 14. In the second semester topographic surveying, profiles, contours and plane surveying are studied. Plane table work. Field work from April 23 to May 21. M., 8:00-10:00.

Mu5-6e. Strength of Materials. Two hours each semester. Stresses and deformations produced by tension, compression, and shear; riveted joints, elementary combined stresses and strains, tension; shear and moment diagrams; stresses and deflections of statically determinate beams. Classroom work in statically indeterminate beams; combined axial and bending loads; eccentric loads, and columns. Laboratory work in compression, tensile, torsion, and flexural tests. Th., 8:00-10:00.

Mu9e. Concrete Laboratory. First semester. Two hours. The standard tests on Portland cement and concrete are conducted in accordance with the A. S. T. M. standards. Mixtures are designed and samples are tested for verification. The water-cement ratio is studied. T., 8:00-10:00.

Mu10e. Reinforced Concrete. Second semester. Two hours. No credit.

The subjects taken up in this course will be plain concrete, general properties of reinforced concrete, beams and slabs, flexure and direct stress, columns, foundations, reinforced concrete buildings, and retaining walls. T., 8:00-10:00.

## INDUSTRIAL ELECTRICITY CERTIFICATE COURSE

## Professor Walther, Assistant Professor Smith

Workers on electrical maintenance and construction work need a better knowledge of electrical principles for advancement. The making and interpretation of standard drawings explaining electrical construction, the designing of electrical machinery and appliances supplemented with the necessary knowledge of electrical theory is given in this certificate course. It is designed to train men for the positions of electrical tester, electrical supervisor, electrical draftsman, technical salesman, engineering assistant, etc. Laboratory exercises are included. The University laboratory is well equipped with meters, various types of motors, generators, and appliances required.

Semes	ter FIRST YEAR	Hours	Semest	er THIRD YEAR	Nours
	Practical Mathematics, Engineering Drawing,			Advanced Industrial E Electrical Laboratory,	
	SECOND YEAR Practical Mechanics, M Industrial Electricity, 3	[3-4e 6			

31-32e. INDUSTRIAL ELECTRICITY. Three hours each semester. Fundamental principles of electrical science as applied to modern industry. Direct current circuits, machines and appliances. Theory of inductance, condensers, and storage batteries. M., W., 8:00-9:30.

71-72e. Elements of Radio. Three hours each semester. The theory of radio telephony, including broadcasting and receiving. Approximately two hours of each period will be devoted to laboratory work, which will include tests of oscillators, modulators, detectors, and amplifiers. Prerequisite, 31-32e. M., W., 6:20-7:50.

## INDUSTRIAL PRODUCTION CERTIFICATE COURSE

## Professor Adendorff

The subjects assembled in this course attempt to formulate objectives of thought which will increase the effort of those responsible for the handling of the human element in industry through the scientific approach to organization problems. This training will aid foremen, production clerks, and junior factory department heads to meet the problems confronting them from day to day and to place them for promotion.

Semeste	f FIRST YEAR	Hours	Semester	THIRD YEAR	Hours
1 I 2 I	Foremanship Industries Foremanship Problems	(1½) (1½)	1 P	ersonnel Relationsroduction Controlime, Motion and Fatigue	(1½)
1-2 H	Industrial Économics  SECOND YEAR Production Methods Purchasing Materials Control	(1½)	2 P 2 R	Studyroduction Accountingubber Production Methods	(2) (1½) (1½)

5e. Industrial Management Problems. First semester. Two hours.

Industrial problems relative to plant, buildings, equipment, materials, organization, wages, production control, quality control and co-ordination. M., 8:00-10:00.

FOREMANSHIP. Either semester. One and one-half hours.

Study and discussion of methods of training workers on the job and more effective use of the foremen's time. Organization problems, job specifications, job analysis and training problems. W., 8:00-9:30.

FOREMANSHIP PROBLEMS. Second semester. One and one-half hours.

This course follows Foremanship and covers the problems that confront the foreman. Presentation of methods by students of the class. W., 8:00-9:30.

INDUSTRIES. First semester. One and one-half hours. The interrelationship of industries, showing the results of specialization and interdependence among workmen and managers. Each student will chart at least two industries. W., 6:20-7:50.

INDUSTRIAL ECONOMICS. Second semester. One and one-half hours. Principles of economics as they apply to industrial organization and management. Prerequisite, Industries or equivalent. W., 6:20-7:50.

## COMMERCE AND ADMINISTRATION

PROFESSOR LEIGH, ASSISTANT PROFESSOR McKEE, MR. VAN METRE, MR. TINKLEPAUGH, MR. HALL, MR. LEWERS, MR. AMMERMAN, MR. POWERS, MR. DAVERIO

#### AIM

Instruction is planned to meet the needs of the business man who desires a deeper knowledge of associated fields of business endeavor, and the student who is taking work toward a certificate or degree in Business Administration. All courses are designed to inform and prepare the student to handle practical situations. To accomplish this purpose, the instructors use textbooks, practical problems, reference and home work, and discussion. Any executive can profit from these studies.

## "STUDY WITH A PURPOSE"

Plan your study; then study your plan. A definite goal brings the best results from your application. If you are interested in Management, Accounting, Marketing, or Retailing, you can concentrate your efforts in that field by taking the basic subjects and electing the remaining hours in the option of your major interest. Thirty-six hours are required for a certificate; and fifty-two hours for an advanced certificate.

The plans are flexible and allow the student to pursue studies which will assist him in his profession.

## COURSES COUNTING TOWARD A COMMERCE DEGREE

Evening Session courses in commerce are applicable toward the Degree of Bachelor of Science in Business Administration. All students desiring to apply such courses toward a degree, however, must first matriculate in the College of Engineering and Commerce and undertake those subjects specifically recommended by the head of the Commerce Department.

#### CERTIFICATE COURSES

To enable students to prepare themselves in some particular field of business endeavor the Commerce department is offering certificate courses in Accounting, Marketing, Advertising, Financial and Industrial Management. These courses contain only the fundamentals necessary for a thorough working knowledge in the given fields, but they give the student a planned program of study, which will assure definite accomplishment and progress toward a chosen goal.

#### ACCOUNTING CERTIFICATE COURSE

This course is for the student preparing for a career in professional or industrial accounting. It is thorough, comprehensive and practical. The student or the practicing accountant will find in this series of courses a study plan suited to his needs. The financial, statistical, and managerial information so essential to the modern accountant. The Advanced Certificate Course prepares for professional accounting as far as theory and education are related to the professional practice.

Semes	ter FIRST YEAR	Sem. Cr.	Semester	THIRD YEAR Sem. Cr.
	Accounting, C21-22e		1-2 Co	st Accounting, C33-34e 3
1	Public Speaking	2	1-2 Pr	inciples of Economics, A1e-2e 3
2	Rhetoric, Ale	3		FOURTH YEAR
2	Business English	2		iditing, C35-36e3
	SECOND YEAR			usiness Law, 40e
1-2	Accounting, C23-32e	3	1 In	come Tax1
1-2	Bus. Org. & Mgt	3	2 C.	P. A. Review I

The Certificate is issued on the completion of three years of work; advanced certificate is issued upon the completion of the fourth year.

C21-22de. Accounting. Three credits each semester. Accounting details of business management; recording of such transactions as acquisition of assets, borrowing of money, incurring of expenses, making of purchases and sales, issuing of stock and bonds, and the amortization of bond premium and discount. Book-keeping principles are mastered in practice sets of books. Three sections—M., W., 6:00-7:50; M., W., 8:00-9:50; T. Th., 6:00-7:50.

20e. Preliminary Accounting. Second semester. Three hours. The fundamentals of bookkeeping and of business transactions. Use of modern business forms and modern machine equipment is explained. This course enables the student without previous experience or training to enter C21e. T., Th., 6:00-7:50.

C23de. Managerial Accounting. First semester. Three credits. This course summarizes, develops and analyzes accounting procedure. Financial statements are studied intensely. A concise working knowledge of more advanced accounting used in determining administrative, credit and expansion policies. T. Th., 6:20-7:50.

C32e. Advanced Accounting. Second semester. Three credits. In addition to the text, problems are used to illustrate the balance sheet and the profit and loss statement, analysis of profits, application of funds, capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc. T., Th., 6:20-7:50.

C33-34de. Cost Accounting. Three credits each semester. Methods of collecting costs of materials, labor and burden, and incorporating them into the books of account; distributing burden costs and methods of cost control. T., Th., 6:20-7:50.

C35-36de. Auditing. Three credits each semester.

Investigations are made of special branches of industry such as banks, municipalities, and public utilities to fully equip the student with modern methods of audit procedure and analysis. T., Th., 8:00-9:30.

C60-63e. Business Organization and Management. Three credits each semester.

A proper perspective of the business organization. Departments and their functions. Class work, problems, and plant trips. Organization of a business; personnel management; the administration of company relations is discussed and analyzed by conferences and the case method. T., Th., 6:20-7:50.

#### MANAGEMENT CERTIFICATE COURSE

The forces of large-scale industry—finance, sales, advertising, purchasing, production—are directed, maintained and controlled by skilled specialists. Each phase of business is becoming a profession. The aspirant is required to speak and write accurately, to know the fundamental principles of economics and organization underlying business, and to use the tools of accounting and statistics. In addition, success in each field demands a fund of special knowledge. The various management options attempt to supply this special knowledge.

INDUSTRIAL MANAGEMENT acquaints the student with the cost, purchasing, and personnel problems of the factory.

MARKETING MANAGEMENT aims to equip the student with the knowledge of research, market planning, and advertising necessary to plan effectively and carry out any industrial or retail selling project. Men wishing to enter selling, retailing, advertising, or market research should finish this option.

FINANCIAL MANAGEMENT is planned to prepare for industrial finance or banking.

PURCHASING MANAGEMENT is intended to give the student something of the scope of importance of purchasing management.

Semes	ter FIRST YEAR Sem. Cr.	r. MARKETING MANAGEMENT	•
1	Public Speaking 2	Semester OPTION Sem. Cr.	
. 2	Rhetoric, Ale 3	Marketing (1931-32)	
	or	Marketing Problems	
_ 2	Business English 2	1 Salesmanship 11/2	
1-2	Business Organization & Mgt. 3	A Retailing, C88e 2	
	SECOND YEAR	1 Advertising, C88e	
-1 2	Principles of Economics, Ale-2e 3	2 Advertising Campaigns, 94e 3	
11.2	Accounting 3	FINANCIAL MANAGEMENT	
/1.2	Accounting	OPTION	
	THIRD YEAR	1-2 Financial Org. and Mgt 3	
1-2	Bus. Facts & Forecasting 3	Credits & Collections	
/1	Business Law, C40e 2	2 Investments 3	
<b>/1.2</b> .	Business Correspondence, S13e 2	Budgets (1932-33)	
	FOURTH YEAR	Problems in Finance (1932-33)	
	TOTAL BEAUTION OF THE PARTY OF	PURCHASING MANAGEMENT	
1,	NDUSTRIAL MANAGEMENT	OPTION	
	OPTION	Purchasing (1931-32) 2	
1	Industrial Management 2	2 Products & Prices 2	
1-2	Cost Accounting, C33e-34e 3	1 Marketing (1931-32) 2	
	Purchasing	Materials Control2	
1	Planned Marketing 2	1-2 Business Geography 3	
	Personnel Relations (1932-33)	Traffic Management 2	

88e. Retailing. Second semester. Two credits. The development, types and significance of the various retail institutions. The best practice of merchandising display and retail selling and the co-ordination of consumer needs and retail buying. T., 8:00-10:00.

80e. PLANNED MARKETING. First semester. Two credits. The nature of customer demand, the function of middlemen, sale of consumer and industrial goods, pricing and price factors, and a study of the costs of marketing. Th., 8:00-10:00.

19-20e. Business Geography. Two credits each semester. The products of trade, the factors that make for exchange and intercourse between nations, and trade channels are studied. A practical course for business men. M., 8:00-10:00.

87e. ADVERTISING. First semester. Three credits. Principles and practices of advertising; market plans; appeals; advertisement writing; constructive criticism. Lectures are given by outside business and advertising specialists. M., W., 8:00-9:30.

94e. Advertising Campaigns. Second semester. Three credits. An advanced course. The principles established in Advertising C87e will be more intensely treated and the student will work out an advertising plan, and complete layouts and copy for a particular product. Media will be selected, copy scheduled and promotion activities drawn up. M., W., 8:00-9:30.

12-13e. Economic Development of the United States. Two credits each semester.

The industrial development of the American people; exploration and settlement; territorial acquisition; land policies; growth of commerce; crises, industrial combinations and conservation; development of banking institutions and railroad systems. W., 8:00-10:00.

SALESMANSHIP. Either semester. One and one-half credits. Economic need of selling, the selling process, and the preparation of sales talks and plans; problems from actual sales experience, laboratory practice. M., 6:20-7:50.

C41-42de. Business Law. Two credits each semester. Contracts and Agency—contractual relationships; elements of a valid and binding contract; rights and obligations of the parties; the avoidance or discharge; appointment, duties and powers of an agent. Sales and Negotiable Instruments—rights of the parties to a sale; the Uniform Sales Act; negotiable paper; the rights and obligations of the maker, endorsers, and holders, for value; the Uniform Negotiable Instruments Act. Th., 8:00-10:00.

72-73e. Financial Organization and Management. Three credits each semester.

The development of a sound money system, use of credit instruments, the rise of a banking system, and the relation of the financial organizations to the business man. The economics of finance; procuring capital, its application, use and control. M., W., 6:20-7:50.

## ASSOCIATION COURSES

The following Associations are co-operating with the Evening Session through their educational committees:

#### THE AKRON ADVERTISING CLUB

Advisory Committee: Earl E. Humphrey, Akron Typesetting Co., President of the Akron Advertising Club; Fred W. Danner, President, Akron Typesetting Co., Secretary of the Akron Advertising Club; Glenn L. Smith, Central Depositors Bank, Chairman of the Educational Committee of the Akron Advertising Club.

See the Marketing Management Certificate Course.

#### THE AKRON REAL ESTATE BOARD

Advisory Committee: C. D. Smith, President; C. K. Traxler, Secretary; F. G. Alexander, Chairman of the Educational Committee; C. W. Hall, D. W. Kaufman, R. K. Crawford, Walter Hall, George Clinton, Richard Herberich, C. A. Johns, Walter Fox, Forrest Myers.

CERTIFICATE COURSE: Required Subjects in logical order to be taken are:

Credits

Real Estate, 1e 1½ Business Law 1, 40e 2

Economics, Ale 2

Real Estate Selling Institute (1) Business Correspondence, S5e 2

Growth of Cities 1½ Advertising, 87e 2

Real Estate Financing, 3e 1½ Salesmanship 1½

Real Estate Appraisals, 4e 1½ Electives approved by Head of Dept. 8

Public Speaking, 10e 2 Total 30

1e. Fundamentals of Real Estate Practice. First semester.
One and one-half credits.

Land and its use; history of land tenures and laws; the growth of cities; zoning and building regulations, subdividing and elementary appraisals. W., 6:20-7:50.

4e. REAL ESTATE APPRAISAL. Second semester. One and one-half credits.

A study of real estate values; appraisals such as improvements, income and leased properties, plottage, irregular lots, depreciation and obsolescence, and amortization of building costs sensing the market. Actual appraisals are made. W., 6:20-7:50.

## THE AKRON PURCHASING AGENTS ASSOCIATION

Advisory Committee: George E. Price, Jr., The Goodyear Tire & Rubber Co., President; E. G. Hammack, The B. F. Goodrich Co., Secretary; C. F. Marshall, Seiberling Rubber Co., Chairman of Educational Committee; W. O. Hollister, Davey Tree Expert Co.; W. C. Mingle, Colonial Salt Co. See Purchasing Management Certificate Course.

#### AKRON LIFE UNDERWRITERS

ARRON LIFE UNDERWRITERS

Advisory Committee: J. I. Thompson, Chairman, W. L. Hammerbeck, R. E. Kennedy (President, Akron Association of Life Underwriters), E. J. Publow, Nathan R. Smith, and Louis E. Zak.

The Essentials of Life Underwriting Institute. Th., 6:30-8:00. (First meeting October 15, 1931.)

The C. L. U. Coaching Institutes. T., 8:30-10:00 a. m. (First meeting October 13, 1931.)

The Life Underwriters Speakers' Institute. Th., 6:00-8:00. (First meeting October 15, 1931.)

Institutes for Life Underwriters continue for 30 weeks, and the fee is \$18.00 each. See special pamphlet and application for details.

## SECRETARIAL SCIENCE

Mr. Doutt, Miss Flint, Miss Tenney, Miss Cohen, Miss Wakefield

#### **PURPOSE**

The courses of study offered in the fields of Secretarial Service and Business English are designed chiefly for those whose work involves the use of letters, business reports, and other forms of English expression. All subjects listed in either of the certificate courses may be applied also toward the regular four-year degree in Secretarial Science, information concerning which will be found in the bulletin of the College of Engineering and Commerce.

## THE PRIVATE SECRETARY'S COURSE

The Private Secretary's Certificate Course is intended for stenographers and private secretaries who wish to perfect themselves in their work and who desire to prepare for greater responsibilities. Students need to have completed a standard course in shorthand theory and the equivalent of the usual high school or business college work in typewriting. Modern laboratory equipment in Secretarial Science is available, including the chief types of calculating machines and alphabetic, numeric, geographic, automatic, and subject systems of filing.

Semest	ter FIRST YEAR	Sem. Cr.	Semester	THIRD	YEAR	Sem Cr.
	Shorthand, S23-24e		1 Bus	iness Corre	spondence	2
	Business English		2 Offi	ce Manage	ment, S10e	3
2	Typing, S34e	(2)	1.2. App	proved Ele	ctive	3
	SECOND YEAR	_				
1	Shorthand, S26e	3.			•••	
	Economics				edits requir	ed for the
	or		certi	ficate, 32.		
1-2	Accounting, C21-22e	3				

#### GENERAL OFFICE COURSE

The General Office Certificate Course is designed to develop facility in the use of the English language in meeting business situations, to acquaint the student with the problems incident to modern office management, and to provide additional background material of value in preparing for larger opportunities.

PIDCT VEAD

Semester FIRST LEAR Sem. Cl.	Sellester III KD LEAK Sell. Cl.
1-2 Economics, A1-2e 3	1 Business Organization, C60e 3
1 Business English, S11e2	2 Office Management, S10e 3
2 Business Correspondence, S13e 2	1-2 Approved Elective2 or 3
SECOND YEAR	
1-2 Business Writing, S17-18e 3	360-1
1-2 Business Law, C40-41e 2	Minimum total of credits required for
or	certificate, 32.
1-2 Accounting, C21-22e 3	

Sam Cr Samastan THIRD VEAD

- 3e. Secretarial Duties. Either semester. Three credits. Origin, nature, and scope of secretarial work; handling and answering of mail; securing needed information; preparation of itineraries, budgets, speeches, reports, and documents; proofreading; writing of minutes; indexing and filing; and time-saving machines. T. Th., 8:00-9:30.
- S21-22de. Beginning Shorthand. Three credits each semester. A thorough introduction in the Gregg system. The second semester completes Gregg theory and begins practice in dictation. While no attempt is made to secure speed, at the end of the year the student should be able to take dictation at a moderate rate of speed and to read notes accurately. T., Th., 8:00-9:30.
- S23-24de. Shorthand. Three credits each semester. After a brief review of Gregg theory, dictation practice begins with simple letters and articles, and proceeds through increasingly difficult material, designed to develop speed, and to convey a broad understanding of business terminology. Open to those who have completed a standard course in theory. T., Th., 8:00-9:30.
- S26de. Shorthand. First semester. Three credits. An advanced course that includes court practice covering all phases: testimonies, bankruptcy, jury charge, etc. Speed to 130 words a minute; taking and transcribing of lectures, etc. T., Th., 6:20-7:50.
- S31-32de. Beginning Typing. Two credits each semester. The touch system of typewriting, and care and use of the machine; practice in drawing up various business forms; drill in spelling, capitalization, and punctuation; use of carbon paper; simple tabulations, etc. M., 6:00-8:00 and T., Th., 6:20-7:50.
- 11e. Business English. Either semester. Two credits. Various types of business writing are studied and illustrated. The aim is to establish, with material drawn from business, fundamental principles which enable the student to use the English language with a greater degree of accuracy, fluency, and precision. T., 5:50-7:50, Sec. B., and W., 5:50-7:50, Sec. A.
- 13e. Business Correspondence. Either semester. Two credits. An advanced course in writing of sales, credit, collection, adjustment and miscellaneous letters; the form and content of the various types of letters; the psychology underlying sales, collection, and other letters. Emphasis on accuracy and conciseness of expression. Prerequisite, Business English, Rhetoric, or approved business experience. T., 8:00-10:00.

## THE TEACHERS COLLEGE

A. I. SPANTON, A. M., Acting Dean

#### ART

ASSISTANT PROFESSOR BARNHARDT, MISS CABLE, MISS WHORL

The following certificate courses are planned for students wishing to take consecutive work along definite lines of study. For art teachers' courses leading to certification or degree, see Teachers College Bulletin.

FINE ARTS CERTIFICATE COURSE  Credits  Structural Art, 1	ART APPRECIATION CERTIFICAT  COURSE  Credit  History of Art, 25
ART DESIGN CERTIFICATE COURSE Credits  Structural Art, 1	STAGE DESIGN CERTIFICATE  COURSE Credit  Structural Art, 1 2  Mediums, 8 2  Clay Modeling, 9 2  Crafts, 3 2  Marionettes, 17 2  Stage Costume, 20 2  History of Art, 25 2  History of Art, 26 2  16

A laboratory fee of \$3.00 is charged for all courses in the Art department except when otherwise stated in the course description.

T1de. STRUCTURAL ART. First semester. Two credits. A study of the basic principles of art: design, color and composition. M., 6:30-9:30.

T3de. DESIGN. First semester. Two credits.

A study of modern design. Prismatic color theory is studied and application made to the several types of design for which it is adapted. Prerequisite, T2e Design. W., 6:30-9:30.

T4de. CRAFTS. First semester. Two credits. Application of design to textiles of various textures and by different processes. Prerequisite, T3e Design. Th., 6:30-9:30.

T7de. Etching and Woodblock Illustration. Second semester.
Two credits.

Technique of drypoint and chemical etching. Cutting and printing of wood and linoleum blocks. Prerequisite, T6e or equivalent. Th., 6:30-9:30.

T9de. CLAY MODELING. First semester. Two credits. Modeling in relief and the round from the abstract and natural forms. Simple pottery forms. W., 6:30-9:30.

T10de. Modeling. Second semester. Two credits. Modeling from the head and the human figure. Group composition. Work in clay, plaster and wood. Prerequisite, T9e. W., 6:30-9:30.

T15de. ELEMENTARY ART. Second semester. Two credits. A study of children's special interests and abilities. The use and source of reference material, the choice and use of suitable materials. The presentation of lessons in picture study. The correlation of Art and other studies in the curriculum. M., 6:30-9:30.

T19de. Pose. First semester. Two credits. Drawing from the model. A careful study of form and its relation to the underlying structure of bones and muscles. Prerequisite, Still Life. W., 6:30-9:30.

T20de. Pose. Second semester. Two credits. Pictorial and decorative treatment of the human figure. Portrait heads. Color rendition. Prerequisite, T19e. W., 6:30-9:30.

T25-26de. HISTORY OF ART. Two credits each semester. A comprehensive history of European painting, sculpture, and architecture from the earliest time to the Italian Renaissance. Second semester: The history of European and American painting, sculpture and architecture from the Renaissance to the present time. M., 6:30-8:30. (No laboratory fee.)

T23-24de. Commercial Art. Two credits each semester. Basic principles of lettering, layout, color, illustration, applied to practical problems. In the second semester a study is made of the technique of reproduction, and of drawing for definite problems in advertising. Prerequisite, T23e. Th., 6:30-9:30.

## **EDUCATION**

Assistant Professors Evans and Smith, Miss Kemler, Mr. Snyder

T11-12e. Story Telling. Two credits each semester. The selection, preparation, and telling of stories for children. Designed for all who would interest children through the story hour.

In the second semester special emphasis is placed on classification, adaptation, invention and grouping of stories. M., 5:50-7:50.

T36e. LANGUAGE, CONTENT AND METHOD. First semester. Two credits.

A study of the principles of teaching language in grades one to six, emphasizing self-expression, oral and written accuracy, appreciation, and remedial work. W., 5:50-7:50.

T35e. Reading, Content and Method. Second semester. Two credits.

A study of the principles of the teaching of reading dealing with the development of reading abilities in children from the earliest through the more mature years. W., 5:50-7:50.

T37de. ARITHMETIC, CONTENT AND METHOD. Second semester. Two credits.

A study of the subject matter for grades one to six, principles of teaching, special methods and devices, course of study, and remedial work. W., 5:50-7:50.

T7e. EDUCATIONAL SOCIOLOGY. First semester. Two credits. The data and principles derived from a study of social relationships are applied in educational problems. W., 5:50-7:50.

T3de. Geography of North America. First semester. Two credits.

Natural resources and climatic features as they influence life forms, industries, cities and chief historic events in North America. M., 8:00-10:00.

T1e. Principles of Geography. Second semester. Two credits. A study of the natural environment in relation to life. The course will professionalize the subject matter by presenting methods of instruction with the content of the subject matter. M., 8:00-10:00.

T3de. HISTORY OF EDUCATION IN THE UNITED STATES. First semester. Three credits.

A study of the European background of American education and of the development of the public school system in the United States. T., Th., 8:00-9:30.

T31e. Personal Hygiene. Either semester. Two credits. A scientific background for the various health activities of the school and the community; the important problem of the care of the body from both the individual and social viewpoints. T., 8:00-10:00.

T29-30de. School Health. Two credits each semester. School sites, drainage, sanitation; beautifying, efficiency; school furniture; gymnasium; health problems. Teaching health, needs, programs, organization, tests, materials. Th., 8:00-10:00.

T15de. School Management and Administration. Second semester. Two credits.

A course designed to acquaint teachers with problems relating to non-instructional responsibilities such as attendance, records, discipline, promotion, community relationship, and professional improvement. Th., 5:50-7:50.

#### PUBLIC SCHOOL MUSIC

ASSISTANT PROFESSOR ENDE, MR. CHAPMAN, MISS RIDER

T1-2de. Elementary Harmony. Two credits each semester. Intervals; scales; triads; inversions of triads; cadences; sequences; chords of the seventh and inversions; passing and auxiliary tones; simple modulations. Harmonization of melodies and basses. Keyboard work covering paper work. W., 5:50-7:50.

T35-36e. HISTORY AND APPRECIATION OF MUSIC. Two credits each semester.

Alien musical systems; mediaeval music; the epoch of vocal counterpoint; the development of monophony; Bach, Handel, Gluck; the perfection of the sonata form. The transition to the romantic style; the great nineteenth century romanticists; opera in the nineteenth century; other nineteenth century composers; recent and contemporary composers. Outside readings and reports. Fully illustrated. T., 8:00-10:00.

T21-22de. Public School Music Methods. Two credits each semester.

First semester: Material of kindergarten and primary grades; methods of teaching; music appreciation. Second semester: Intermediate and upper grades; methods; music appreciation. W., 5:50-7:50.

RHYTHM BAND. First semester. Two credits.

A course in conducting rhythm with emphasis on the toy orchestra. Construction of a number of instruments is included. Th., 5:50-7:50.

ORCHESTRA. Both semesters.

This class is open to all Evening Sessions students without cost but if credit is desired the student must pay the one hour fee. Those students who wish to register for orchestra only must pay the regular fee and will receive credit. M., 6:00-8:00.

#### INDUSTRIAL ARTS AND VOCATIONAL EDUCATION

ASSISTANT PROFESSOR GREENLY, MR. CONNER, MR. MOORE

T27de. HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION. First semester. Two credits.

A brief survey of the development of Vocational Education. Apprenticeship under the Guild system. Social and economic factors that have affected apprenticeship. Various types of organization. Theories underlying state and federal aid. Canton—10:00-12:00 p. m., Monday; Akron—4:00-6:00 p. m., Monday; Youngstown—3:00-5:00 p. m., Tuesday.

25e. Organization of Instruction Material. First semester. Two credits.

Sources of course content; principles governing curriculum construction; effective arrangement of teaching content; application of governing principles. East Liverpool—10:00-12:00 a. m., Wednesday.

T15de. Shop Management. First semester. Two credits. Housing conditions and the installation of equipment. Problems of shop maintenance and the securing of equipment and supplies. The reaction of equipment on the whole vocational program. Educational abilities and preparation of students. Variations in course content to meet students' abilities. Forms are developed recording progress, ordering supplies, reporting to administrative officers, etc. Akron—4:00-6:00 p. m., Thursday, Hower Trade School.

29e. Methods of Teaching Occupational Subjects. First semester. Two credits.

Methods of instruction in occupational subjects are studied and evaluated in terms of analysis and organization of curricular content and psychological principles. Teaching devices are examined. Exemplary teaching plans are required and their use discussed. Cleveland—Friday, 4:00-6:00 p. m.

T2de. Occupational Analysis. Second semester. Two credits. A comparative study of methods of occupational analysis for curricular purposes. Development of a standard technique to determine content of vocational courses. Analysis of any occupation for which there is educational demand, such as architecture, auto mechanics, carpentry, dressmaking, machinist trade, plumbing, retail selling, telegraphy, etc. Akron—Th., 4:00-6:00 p. m.

T4de. EDUCATIONAL AND VOCATIONAL GUIDANCE. Second semester. Two credits.

An introductory course in guidance as an integrating influence in education. Youth must be oriented to social organization—a func-

tion as many phased as education itself. Guidance must be more than vocational, although the life career motive is the organizing factor. Canton—M., 10:00-12:00 p. m.

T32de. Industrial and Educational Co-ordination. Second semester. Two credits.

The procedure necessary to arrive at the problems of the employed youth; type of information that may be given teachers; organizing, systematizing and filing information; investigation of the nature of individual and group conferences with employed youth; co-ordination as the special problem of harmonizing all efforts to promote the educational welfare of working youth. Youngstown—T., 3:00-5:00 p. m.

T23-24e. Organization of Instruction Material for Industrial Arts Teaching. Two credits each semester. The development and compilation of material to be used in classroom instruction. The work will consist of lesson planning, working out operation sheets, information sheets and job sheets for various industrial arts activities. W., 4:00-6:00.

## **PSYCHOLOGY**

PROFESSORS HAYES AND KUHNES, ASSOCIATE PROFESSOR WOOD

T1de. General Psychology. First semester. Three credits. A course giving students a general understanding of the feelings and emotions, motives and reactions of themselves and others, to prepare for advanced courses. M., W., 8:00-9:30.

T3de. EDUCATIONAL PSYCHOLOGY. Second semester. Three credits. For students who wish to meet state certification requirements and who have had no training in educational psychology. Attention to the native equipment of children and to the learning process. Prerequisite, T1e. M., W., 8:00-9:30.

T5e. Child Psychology. First semester. Two credits. Pre-school child and early elementary grades; original tendencies; play attitudes and educational application; application of instinctive urges in training and control. Prerequisite, T1e. Th., 5:50-7:50.

T4de. Psychology of The Exceptional Child. Second semester. Two credits.

Case studies of deviates; methods of treatment; methods of diagnosis; neural instability, precocity, backwardness, and feeblemindedness. Prerequisite, T1e. Th., 5:50-7:50.

T8e. Psychology of Elementary School Subjects. Second semester. Two credits.

A course founded on the results of experiment and scientific research. The concern is particularly with aims, abilities, laws of association, satisfaction and repetition and the location and elimination of errors in the selection of materials for the various grades. Prerequisite, T1e. S., 8:00-10:00.

#### GRADUATE COURSES

Professors Hayes and Kuhnes, Associate Professor Wood, Assistant Professor Evans

The Teachers College offers graduate courses leading to the degrees of Master of Education (to candidates holding the B. E. degree), Master of Arts in Education (to candidates holding the A. B. degree), and Master of Science in Education (to candidates holding the B. S. degree). For details see Teachers College catalog.

#### **EDUCATION**

T101e. Modern Tendencies in Education. First semester. Two credits.

A discussion of the outstanding tendencies in modern educational theory and practice. W., 5:50-7:50.

T113e. EDUCATIONAL PHILOSOPHY. First semester. Two credits The educational aims and ideals as determined by the educational process, the nature of mind and the ideals of the race. Th., 5:50-7:50.

T114e. Supervision of Student Teaching. Second semester. Two credits.

A study of current practices and specific methods of supervision and direction of student teaching. W., 5:50-7:50.

T120e. Principles and Technique of Research and Investigation. First semester. Two credits.

This course introduces graduate students to the principles and practice of research. Meaning and purpose of research; study of typical researches; defining problems; planning; investigation; bibliographies; schedules, questionnaires and other instruments; organizing data; interpretation of results; forms of presentation; preparation of scientific papers. T., 5:50-7:50.

T118e. EDUCATIONAL STATISTICS. Second semester. Two credits. A course dealing with the statistical terms and concepts needed to interpret present-day literature. Teachers who construct new-type tests will be helped in validating their procedures. Designed for teachers, administrators, and research students. T., 5:50-7:50.

T122e. HISTORY AND PHILOSOPHY OF EDUCATION. Second semester. Two credits.

A study of the contributions of great thinkers, from Socrates to the present, showing the development of an educational philosophy. Th., 5:50-7:50.

#### **PSYCHOLOGY**

T102e. Social Psychology. First semester. Two credits. The psychological bases of customs, social groups, mobs, superstitions, social control clubs, castes, publics and other social controls. Prerequisite, Psychology T1e and Educational Psychology T3e. T., 5:50-7:50.

T108e. PSYCHOLOGICAL SYSTEMS. Second semester. Two credits. The various theories, definitions and conceptions of psychology will be studied. Some library work is required in the field of psychic causation and the theories of the subconscious. Prerequisite, 7 hours of psychology. W., 5:50-7:50.

T114e. PSYCHOLOGY OF RELIGION. Second semester. Two credits. Religion as a normal part of human development. The phenomena of religious experience will be put on the same scientific footing as the phenomena of the other ranges of experience. No brief will be made for any form of religious faith nor for any form of anti-religious doctrine. W., 5:50-7:50.

T117e. Psychology of Character Traits. First semester. Two credits.

The problem of character training is attacked systematically and without mixing of sentimentality and artificiality. Ideals and situations, trait actions and specific individual development receive particular attention. Prerequisite, 7 hours of psychology. W., 5:50-7:50.

## SATURDAY CLASSES

## **EDUCATION**

T117de. Supervision of Instruction. First semester. Two credits.

A study of the principles and scientific investigation which are related to the improvement of teaching. The work of the principal as supervisor is stressed. S., 8:00-10:00.

T112e. Public School Administration. Second semester. Two credits.

A fundamental course in educational administration. Some of the topics considered are: selection, promotion, training, and salaries of teachers, budget-making and accounting, attendance, classification and progress of pupils. S., 8:00-10:00.

## **PSYCHOLOGY**

T103de. Advanced Psychology. First semester. Two credits. A general intensive survey of the fields of psychology especially for graduate students who are majoring in education. Prerequisite, 7 hours of psychology. S., 10:00-12:00.

T106de. Abnormal Psychology. Second semester. Two credits. A course of lectures, discussions and reports dealing with disorders of perception, association, memory, affliction, volition, personality, judgment and action, with respect to their respective normal phenomena. Prerequisite, 7 hours of psychology. S., 10:00-12:00.

T109de. Psychology of Adolescence. First semester. Two credits.

Problems of pre-adolescence and the adolescent, physical and psychic changes, problems of differentiation, in junior and senior high school age. Social and moral changes. Prerequisite, 7 hours of psychology. S., 8:00-10:00.

## 1931 SUMMER SESSION

HOWARD R. EVANS, PH. D., Director

#### GENERAL STATEMENT

The Summer Session of 1931 is the tenth annual summer session of the University of Akron. It is an integral part of the regular University organization with similar standards of academic and professional achievement. The courses are, with a few exceptions, the same as those offered during the regular school year. Credit obtained is fully recognized toward the various degrees and certificates which the University confers.

Credits obtained in the University of Akron will be accepted in all leading colleges and universities and State departments of Education.

## THE PURPOSES OF THE COURSES

The courses in the Summer Session are designed primarily for the following classes of students:

- 1. School superintendents, principals, and teachers or prospective teachers, who desire advance instruction in their professional fields or who seek necessary credits to meet the requirements for state certification.
- 2. Regular students of the University or other institutions, who desire to shorten the period required for obtaining a degree or to make up deficiencies.
- 3. Graduate students who wish to continue courses or pursue supervised research.
- 4. Special students who seek to improve their general or professional education, but who are not working toward a degree.

## LOCATION

The city of Akron, a city of more than one-quarter of a million people, is located about thirty miles south of Lake Erie and is about one hour's ride from Cleveland, Youngstown, and Canton. The Portage Lakes, parks, golf courses, tennis courts, and theatres offer an excellent opportunity for varied recreation.

If there is sufficient demand, tours will be organized to see places of interest, such as one of the great rubber industries or the world-famous Goodyear-Zeppelin hangar and dirigible.

## ADMISSION REQUIREMENTS AND REGISTRATION

There are no formal examinations for admission, but students under twenty-one years of age must have completed a four-year high school course of study. If the student wishes to apply the credit toward a degree or diploma from the University of Akron, he must meet the requirements for admission as outlined in the catalog of the college in which he is seeking the degree or diploma.

Students from other colleges should present a statement of good

standing from the Registrar of the institution last attended.

Registration will be held in Rooms 37 and 38, Buchtel Hall, June 22 from 8:00 A. M. to 5:00 P. M. Any person registering after June 22 will be charged a late registration fee of \$5.00. All late registrants should report to the office of the Director. All changes in courses must pass through the Director's office.

All fees, including tuition and laboratory fees, must be paid to the Secretary of the University as a part of the registration. Registration and payment of fee should be made in person on June 22,

or by mail in advance of the opening of the session.

#### AUDITORS

There will probably be room in most classes for persons who want to audit the work. Auditors do not participate in class discussions or examinations and do not receive credit. The fee is the same as for regular enrollment.

## OFFICIAL SCHEDULE CHANGES

The University reserves the right to cancel courses where the registration is insufficient to warrant their continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary.

## ACADEMIC CREDIT

The unit of credit is the semester hour which requires class meetings totaling fifteen clock-hours for lecture-discussion types of classes with additional time for laboratory classes.

All classes meet five days a week during the six weeks from June 22 to July 31. A one-hour class meets daily for three weeks. A two-hour class meets daily for six weeks. A three-hour class meets two times per day for three weeks and once a day for the other three weeks. The courses offered in Commerce meet daily for eight weeks. The course in Chemistry bears eight hours of credit and lasts nine weeks.

All courses offered in the Summer Session are credited in Teachers College. The courses which are accepted toward a degree in Buchtel College of Liberal Arts are indicated with an asterisk (\*) in the schedule of classes on the last page. All students will receive cer-

tificates indicating the quality of work done and the amount of credit granted.

No student will be allowed to enroll for courses aggregating more than seven semester hours, but a load of six hours should be considered normal for the regular session of six weeks.

#### **FEES**

A maintenance fee of \$6.00 per credit hour will be charged all students. The amount of credit granted is indicated for each course, so that each student can determine the cost.

In addition to the maintenance fee each student is charged a \$2.00 student activities fee.

A late registration fee of \$5.00 will be charged all students who register after June 22. Laboratory fees are indicated in the description of courses.

Refunds are made to students who are compelled to withdraw during the session, as follows: First week, 80% of fees; second week, 60%; third week, 40%; fourth week, 20%; after fourth week, no refund.

#### CONSULTATION

All members of the Summer Session faculty will be glad to discuss problems with students at appointed times. The Director will maintain office hours each day to advise students concerning the selection of courses, certification, evaluation of credits, and other school problems. Students are invited to make use of these opportunities.

## APPOINTMENT BUREAU

The Director of the Summer Session is chairman of the Appointment Bureau for Teachers of the University. Summer Session students may enroll for appointment without extra fee. Many students are placed in desirable positions each year.

#### PRACTICE TEACHING

All student teaching of the Summer Session will be done in Wadsworth and Barberton schools. Students will not be required to do class work on the campus if they are enrolled for student teaching. All requests for student teaching must be made before May 15 with the understanding that the students first enrolled for teaching will be assigned first. If more students are enrolled for teaching than can be accommodated, notification will be given early in June. A deposit of \$10.00 is required with each enrollment. This deposit will be refunded if assignment is not made.

## TESTS AND EXAMINATIONS

All students who have not already taken the Psychology test required by the Ohio College Association will be required to take this test.

Students taking methods courses will be given diagnostic tests as

prescribed by the State Department.

Final examinations will be given in all classes on the final day of the Summer Session. All students who expect credit must take the final tests.

#### A:SSEMBLY

All students not excused by the Director are required to attend Assembly exercises. Assembly exercises will be held each Thursday at 11 o'clock in the Central High School Auditorium on Union Street. The public is invited to attend all programs.

Class periods on Thursday mornings will be: 7:00-7:55, 8:00-

8:55, 9:00-9:55, 10:00-10:55, 12:05-1:00.

Special musical productions and other attractive features will be added to the following program:

June 25—"Are Schools and Colleges Meeting the National Need Growing Out of an Obvious Increase in Lawlessness and Crime?" Dr. J. O. Engleman, President of Kent State College.

July 2—Honorable Francis Seiberling, Congressman, 14th Congressional District. (Tentative date.)

July 9—Address. Dr. R. A. Kent, President, University of Louisville.

July 16-Musical Program.

July 23—Program by the department of vocal and dramatic expression, directed by Miss Carita McEbright.

July 30—"Our Universe," Dr. A. M. Harding, Professor of Astronomy, The University of Arkansas.

#### SPECIAL FEATURES

President Engleman and President Kent will hold conference hours at 9:00 on the days of their appearance on assembly programs. At 12:15 on June 25 a luncheon will be held at the University Club and a short after-dinner program will be presented and the afternoon turned into a get-acquainted meeting.

M. M. Proffitt, specialist from the United States Office of Education, will teach three-week courses the first half of the session.

Mrs. L. C. McNabb, Vice President of the Story Tellers League of the National Association of Teachers of Speech, will offer a course in Story Telling.

An eight-hour course in General Organic Chemistry will extend

over a period of nine weeks.

The American Book Company will again have Miss Hanley assigned to the Summer Session to teach Methods in Reading.

#### ANNUAL PICNIC

The regular annual summer picnic will be held sometime during the session. This is always an enjoyable affair. Announcement of arrangements will be made at the assembly.

#### BOARD AND LODGING

The Director of the Summer Session has on file addresses of those who rent rooms with or without meals. These addresses will be furnished upon request.

## UNIVERSITY BOOK STORE

All texts used in the various classes will be on sale at the University Book Store.

## THE BUCHTELITE

Summer Session issues of "The Buchtelite," student newspaper of the University, are published by the class in journalism as a laboratory project.

## PROGRAMS OF STUDY

Teachers who are planning the completion of regular two-year courses for state certificates may complete this work in Summer Sessions at the University of Akron and in addition receive college credit toward the degree. The Teachers College bulletin outlining courses may be had upon request. Many subjects taught in the Summer Session are also credited toward degrees in the other colleges of the University.

Students desiring to do graduate work will find opportunity to

earn graduate degrees in summer sessions.

For any further information, address Howard R. Evans, Director of the Summer Session.

## SUBJECTS OF INSTRUCTION

The building in which each class recites is indicated at the end of the course description according to the following system: B refers to Buchtel Hall; C to Curtis Cottage; S to Spicer School Building; P to Phillips Hall; O to Olin Hall; K to Knight Hall; M. H. to Music Hall; Gym. to Gymnasium. The number indicates the room in that building in which the class meets.

#### ART

## 1. STRUCTURAL ART. Two credits.

A study of the basic principles of design, color and composition. This course is a prerequisite for all advanced courses. Class meets from 9:35 to 11:45 in P-1.

MRS. BARNHARDT

## 2. Design. Two credits.

A series of problems which will increase the student's understanding of good form, space, and line as a pattern for dark, light, and color. These principles will be applied to special designs in industrial problems. Class meets from 7:15 to 9:25 in P-1. MRS. BARNHARDT

#### 9. Still Life. Two credits.

A course in drawing from common objects and natural forms, using different mediums, emphasizing the importance of composition, relation of forms, values and color harmony. Class meets from 10:45 to 12:55 in P-1.

MRS. BARNHARDT

#### **BIOLOGY**

## 1s. Zoology. Four credits.

This course is the first half of General Zoology, formerly General Biology. It comprises treatment of general characteristics of organisms showing the essential unity of the animal kingdom, and a survey of the lower animal groups. It is prerequisite to Zoology 2. Class meets daily for lecture at 7:15 in O-25 and for laboratory from 8:25 to 11:45 in O-34. A laboratory fee of \$4.00 is charged.

MR. KRAATZ

## **CHEMISTRY**

7-8s. General Organic Chemistry. Six credits. Nine weeks. This course is designed for pre-medical, pre-dental and home economics students. The work covered in the regular one-year course will be given, and six credits will be granted. Two lectures per day, one during the first period and one during the fourth period. The remaining three hours will be used for laboratory. Chemistry Majors may not enroll for this course. A laboratory fee of \$14.00 will be charged. Class meets daily at 7:15 in K-22.

MR. COOK

#### COMMERCE

 Accounting. Two credits for six weeks; three credits for eight weeks.

An elementary course dealing with the opening of a set of books, recording of business transactions, taking off of statements, etc. Emphasis is placed upon the purposes which underlie accounting records and the designing of records to secure information. Class meets daily at 8:25 in C-15.

40s. Business Law. Two credits.

The origin of commercial law, the operation and discharge of contracts, the law of sales, of agency, and of negotiable instruments, partnerships and corporations are studied, giving attention to the statutes which form the working machinery for economic activity. Class meets daily at 9:35 in C-15.

#### **ECONOMICS**

1s. Principles of Economics. Two credits.

This course covers the basic principles and concepts in Economics; the production, consumption, and distribution of wealth. The course or its equivalent is required for entrance to any other course in Economics. Class meets daily at 9:35 in B-26.

MR. DAVIS

2s. Principles of Economics. Two credits.

This is a continuation of 1s, and covers labor organization and labor problems, money, credit and banking, business cycles, international trade and foreign exchange, agricultural problems, social programs, transportation, insurance and taxation. Courses 1s and 2s may be taken at the same time. Class meets daily at 10:45 in B-37.

#### **EDUCATION**

- 3s. HISTORY OF EDUCATION IN THE UNITED STATES. Three credits. A study of the European background of American education and of the development of the public school system in the United States. Class meets two periods daily, at 7:15 in B-38 and at 8:25 in B-38, first three weeks, and one period daily, at 7:15 in B-38 last three weeks.

  MR. SNYDER
- 6s. Tests and Measurements for Elementary Schools. Two credits.

A brief study is made of school marks as compared to the marks given in standard tests. The elements of statistical measurements, administration and marking various types of tests, and the possible use of such marks, are studied. Special emphasis will be given to the construction and use of new-type tests. A laboratory fee of \$1.00 will be charged. Class meets daily at 7:15 in S-212.

MR. BATES

## 9s. Principles of Education. Three credits.

A discussion of the principles of educational practice and their evaluation in the light of educational psychology. The aim is to help the teacher deduce educational principles in school management and instruction. The class will recite two periods a day the last three weeks so that three credits may be given to satisfy state requirements for certification. Class meets one period daily, at 9:35 in B-37, first three weeks, and two periods daily, at 8:25 in B-37 and at 9:35 in B-37, last three weeks.

## 13s. High School Methods. Two credits.

A detailed study of the directed learning of high school pupils. Application of principles to specific subject matter. Thesis: principles applied to the student's major. Class meets daily at 9:35 in B-11.

MR. KUHNES

#### 15s. Correlative Education. One credit.

This course for elementary teachers and supervisors gives a background for the understanding of pupil-problems. The relation between physical and mental development; changes in mental functions, interests, attitudes, and methods of learning; the relation of mental and physical development to school progress; and problem-cases in instruction and discipline. Class meets daily at 8:25 in B-37 first three weeks only.

MR. PROFFITT

## 1s. PLAY MATERIALS. Two credits.

Materials, tools, purposes, and techniques in the use of clay, blocks, sand, paper, wood, roving, cloth, odds and ends; standards for judging work; equipment for indoor and outdoor play. Class meets daily at 8:25 in S-212.

MISS HOWES

# 4s. Techniques and Principles of Kindergarten-Primary Education. Two credits.

A study of content and technique for evaluation of child growth. Correlation of various school subjects in relation to experiences, activities and interests of children. Socialization—its meaning in civic life and uses in education at large. Primary-kindergarten unit, parental education, classroom materials, community agencies, training of personality, character, and individuality. Class meets daily at 11:55 in S-212.

## 14s. CHILDREN'S LITERATURE. Two credits.

Children's interests; presentation of literature to children; Mother Goose; poetry and rhymes; stories; creative returns; books suitable for kindergarten, first, second and third grades. Class meets daily at 9:35 in S-212.

MISS HOWES

5s. TEACHING OF ARITHMETIC. Two credits.

The course deals with subject matter for grades one to eight; social values, course of study, principles of teaching, special methods and devices for securing best results, and a program of diagnostic and remedial teaching. Class meets daily at 10:45 in B-13. MR. CLOSE

8s. TEACHING OF SOCIAL STUDIES. Two credits. A study of special methods used in correlating the subject matter of history, civics, and geography. An attempt will be made to professionalize the content of these subjects. Class meets daily at 11:55 in K-22.

10s. Principles of Human Geography. Two credits. This is primarily a subject matter course but some attempt is made to professionalize the content. Emphasis is on factors of climate, soil and minerals, bodies of water, land forms, and their relationship to man and his needs. Class meets daily at 10:45 in S-212.

MR. BRYANT

13s. STORY TELLING. Two credits. Selection, preparation, and interpretate

Selection, preparation, and interpretation of adult and children's stories for recreational, educational, and religious purposes. Fundamentally cultural and designed to meet the needs of such persons as teachers, recreational directors, and interpreters. Class meets daily at 7:15 in B-22.

MRS. MC NABB

21s. School Management. Two credits.

This course is designed for elementary teachers. Classroom management and general problems of school management are discussed. Class meets daily at 8:25 in B-15.

MR. FLICKINGER

24s. STUDENT TEACHING. Four credits.

Barberton and Wadsworth have offered the use of their schools for student teaching. All grades and high school will be available. The work will be done under the supervision of competent supervising teachers. Those who desire to do student teaching should make application before May 15. A deposit of \$10.00 is required with the application. Students in this course must take Classroom Procedure and Observation.

MR. EVANS

25s. Classroom Procedure and Observation. Three credits. This course accompanies Student Teaching. Careful study of classroom procedure with observations of teaching. Students will be expected to do assigned readings and meet with supervising teacher for class discussion and individual conferences.

MR. EVANS

37s. Reading Methods. Two credits.

A careful study of the underlying principles of the teaching of reading. Work includes demonstration lessons and discussion of problems. Special emphasis on Do and Learn Series. Class meets daily at 9:35 in S-112.

MISS HANLEY

101s. Principles of Secondary Education. Two credits. This is a study of the literature dealing with secondary education. Special attention is given to the high school as an institution, its purposes and relationship to higher and lower schools and the character of its population. Graduate students will be admitted to this class upon consultation with the instructor. Class meets daily at 10:45 in S-112.

#### **GRADUATE COURSES**

Seniors may be admitted to these courses by permission of the Instructor and the Director.

103s. Tests and Measurements for Secondary Schools. Two credits.

This course is designed for high school teachers. Need for standards in grading, simple statistical methods, history of mental and educational tests, standard criteria for making and judging tests, and latest practical tests for use in high schools. A laboratory fee of \$1.00 will be charged. Class meets daily at 9:35 in O-25.

MR. BATES

106s. Modern Tendencies in Education. Two credits. A discussion of the outstanding tendencies in modern educational theory and practice. Class meets daily at 11:55 in B-22.

MR. KUHNES

109s. HIGH SCHOOL ADMINISTRATION. Two credits. An analysis of the activities of junior and senior high school principals, and an intensive study of the major problems that are revealed. Scientific studies bearing upon these major problems furnish the main body of materials. Class meets daily at 10:45 in S-113.

MR. EVANS

113s. Educational Philosophy. Two credits. The educational aims and ideals as determined by the educational process, the nature of mind and the ideals of the race. Class meets daily at 10:45 in C-15.

116s. Experimental Education. One credit.

Training in the technique of research studies in education and a study of the principles governing experimental studies. Each student will be required to carry on some problems. The class will be sectioned so as to care for both advanced and beginning students. Class meets daily at 11:55 in S-113.

MR. PROFFITT

120s. Principles and Technique of Research and Investiga-TION. Two credits.

The purpose of this course is to introduce graduate students to the principles and practice of research. Meaning and purpose of research; study of typical researches; locating and defining problems; planning a research; technique of investigation; bibliographies; constructing schedules, questionnaires and other instruments; organizing data; interpretation of results; forms of presentation; preparation of scientific papers. Required of all candidates for graduate degrees in education and open to other students on approval of instructor. Will take place of first half of thesis seminar. Class meets daily at 9:35 in S-113. MR. PROFFITT, first three weeks MR. EVANS, last three weeks

130s. Advanced Educational Sociology. Two credits. An intensive study of the principles underlying Sociology as they apply to the field of public education. Class meets daily at 10:45 in B-22. MR. SNYDER

#### RESEARCH PROBLEMS.

Students who are interested in some educational investigation may enroll for one of the courses listed below. Careful assistance will be given the student in the solution of these and credit of one to two hours granted according to merit.

- PROBLEMS IN CURRICULUM 1.
- 2. PROBLEMS IN SCHOOL ADMINISTRATION
- PROBLEMS IN METHOD
- PROBLEMS IN SUPERVISION

#### **ENGLISH**

#### 1s. RHETORIC. Three credits.

This course is designed for basic instruction in English composition with practice in effective expression of original ideas and with emphasis on elementary principles such as simplicity of structure and concreteness of wording. Attention particularly to sentence and paragraph, structure of short expository compositions. Class meets two periods daily, at 7:15 in B-26 and at 10:45 in B-32, the first three weeks, and one period daily, at 7:15 in B-26, the last three weeks.

MISS MITCHELL

## 2s. RHETORIC. Three credits.

A continuation of Rhetoric 1, with attention to main types and functions of prose writing. The written work includes exercises in the types of exposition, description, characterization, and narrative; applied work in outlining, paraphrasing, and the making of briefs and abstracts. Prerequisite, Rhetoric 1. Class meets one period daily, at 8:25 in B-11, the first three weeks, and two periods daily, at 8:25 in B-11 and at 11:55 in B-26, the last three weeks.

MR. STICKNEY

46s. AMERICAN LITERATURE. Three credits.

This course undertakes a survey of the literature of the United States between 1850 and 1925, comprising the leading works of the major authors, their tendencies in thought and style, and the relation of our literature to the political and social development of the period. Class meets one period daily, at 8:25 in B-26, first three weeks, and two periods daily, at 8:25 in B-26 and at 10:45 in B-32, last three weeks. This is a continuation of last summer's course.

MR. PEASE

30s. HISTORY OF THE ENGLISH LANGUAGE. Three credits. The aim of this course is to study significant phases of language history that have influenced the development of present-day English. Among other matters, such a study will include changes in pronunciation, spelling, and grammar; literature of the different periods; methods of proper word study, etc. Class meets two periods daily, at 7:15 in B-32 and at 9:35 in B-32, first three weeks, and one period daily, at 9:35 in B-32, last three weeks.

MR. PEASE

31s. SHAKSPERE. Three credits.

The purpose of this course is (1) to acquaint the student with Shakspere as a dramatist, and his place in the Elizabethan Age and in English literature and (2) to make known to him the great dramatist's best work so that he will not only enjoy the plays read in the course, but will also do further reading. Fifteen or more of the best plays are read. Class meets daily at 10:45 in B-26, first three weeks, and two periods daily, at 7:15 in B-32 and at 10:45 in B-26, last three weeks.

38s. Tennyson and Browning. Two credits.

Reading and study of the best work of these two poets. Considerable outside reading is required. The aim of the course is to help the student to read Tennyson and Browning more intelligently and with greater pleasure and profit, and to show the significance and power of their work. Class meets daily at 8:25 in B-32 and at 11:55 in B-26, first three weeks, and at 8:25 in B-32, last three weeks.

MR. SPANTON

15s. JOURNALISM. Two credits.

This is a general course in contemporary journalism, including a study of the construction and style of news stories, editorials, and feature articles, and a practical application of rules studied. Students will write and edit a summer session newspaper and may also write for Akron newspapers. Class meets daily at 10:45 in B-11.

MR. VANCE

#### HISTORY

4s. LATER MEDIEVAL CIVILIZATION. Two credits.
Beginning with the Crusades a study is made of the problems and institutions which led to the formation of modern western civilization. Class meets daily at 10:45 in B-25.

MR. GARDNER

12s. AMERICAN HISTORY SINCE THE CIVIL WAR. Two credits. This course deals with such problems as reconstruction, western expansion, civil service, tariff, trusts, monetary affairs, imperialism, showing their relation to events of the twentieth century, particularly the post-war period. Class meets daily at 9:35 in B-25.

MR. GARDNER

#### HOME ECONOMICS

15s. CLOTHING SELECTION. Two credits.

A consideration of what it means to be well dressed. A study of suitable lines, colors and textures for individuals of varying types, figures, and coloring. Accessories and their use in the costume. Clothing budgets with suggestions for proportionate amounts to be spent for various articles of the wardrobe. Class meets daily at 7:15 in C-8.

MISS LATHROP

17s. Selection of House Furnishings. Two credits. A study of the factors involved in the selection of a site for a house and suitable types of architecture. House plans from the standpoint of economy of space, attractiveness of room arrangement and efficiency in performing the work of the household. Selection of furnishings. Class meets daily at 9:35 in C-8.

MISS LATHROP

#### LATIN

51s. Technique of Epic Poetry in Antiquity. Two credits. A general study of the technique of epic poetry from Homer to Virgil will be made by lectures, reading and reports. Class meets daily at 11:55 in B-32.

MR. YOUNG Other courses in Latin will be offered upon request of sufficient number of students.

#### **MATHEMATICS**

1s. Algebra. Four credits.

The course includes a review of elementary algebra, and takes up the study of surds, linear and non-linear equations, proportion, variation, progressions, mathematical induction, binomial theorem, permutations, and combinations. Class meets two periods daily, at 9:35 and at 11:55, in B-13.

MR. JONES

#### MODERN LANGUAGES

1s. Beginning German. Four credits.

Reading, conversation and grammar. Class meets two periods daily, at 8:25 and at 9:35, in B-22.

MR. BULGER

#### NATURE STUDY

#### 1s. NATURE STUDY. Two credits.

For elementary school teachers. Care will be taken to present the subject matter, including hikes, field specimens and methods, in such a manner as to appeal to more formal organization in city platoon schools, outlying or consolidated school system and rural school instruction. Training in technique of field trips and ways and means of correlating nature instruction with other school work. Class meets daily at 8:25 in O-25.

MR. BRYANT

#### PHYSICAL EDUCATION AND HEALTH

#### 4s. Personal Hygiene. Two credits.

The aim of this course is to give a scientific background for the various health activities of the school and the community. Care of the body from both the individual and the social viewpoints is studied. Class meets daily at 7:15 in S-113.

MR. SMITH

#### 9s. PLAY AND GAMES. One credit.

Theory of play and practice of games with emphasis on how to teach them. This course is devoted to games of low and middle organization. For both men and women. Students must come prepared with gymnasium equipment, ready for work the first day. Class meets daily at 10:45 in Crouse Gymnasium.

MISS DUNCKLEY

#### 10s. PLAY AND GAMES. One credit.

Theory of play and practice of games with emphasis on how to teach them. Games of higher organization and minor sports. For both men and women. Students must come prepared with gymnasium equipment, ready for work the first day. Class meets daily at 11:55 in Crouse Gymnasium.

#### 11s. Folk Games. Two credits.

One-hour lectures are given each week on characteristics and customs of various countries, the history of dancing, and method of presentation of dancing and rhythmical work. Typical folk dances, singing games and action games are given as practice. Students must come prepared with gymnasium equipment, ready for work the first day. Class meets daily from 7:15 to 9:25 in Crouse Gymnasium.

MISS DUNCKLEY

29s. Organization of Physical Education Activities. Two credits.

The organization of physical education activities to meet the needs of teachers who must assist in physical education work. A study of modern aims and new principles. Emphasis is on local needs. Class meets daily at 8:25 in S-113.

MR. SMITH

30s. School Health. Two credits.

The course deals with school sites, drainage, sanitation; beautifying; efficiency, school buildings, lighting, heating, sanitation; school furniture; seat equipment; gymnasium, size, care; school health problems, detection, remedies. Class meets daily at 10:45 in C-8.

MR. SMITH

#### POLITICAL SCIENCE

1s. Problems of Citizenship. Two credits.

A survey of the social, economic, and political aspects of American citizenship. A group of selected problems is the basis of classroom discussions and assigned readings. Class meets daily at 7:15 in B-15.

MR. CRECRAFT

2s. AMERICAN GOVERNMENT. Two credits.

An introductory survey of the basic principles and the practical administration of the American Government. Although required only of Teachers College and Commerce freshmen, the course may be taken by Arts students and be counted toward a major or minor requirement in political science. Class meets daily at 8:25 in B-25.

MR. CRECRAFT

25s. International Relations. Two credits.

An introductory treatment of modern topics in international relations, including the latest developments in world politics. Class meets daily at 10:45 in B-15.

MR. CRECRAFT

#### **PSYCHOLOGY**

1s. General Psychology. Three credits.

A foundation of the facts, principles and theories of human psychology that will function either in pursuing more advanced courses or in reacting successfully to situations not common to the classroom. Class meets one period daily, at 8:25 in S-112, first three weeks, and two periods daily, at 8:25 in S-112 and at 9:35 in S-213, last three weeks.

MR. WOOD

4s. Child Psychology. Two credits.

The child as the product of instincts and emotions, the epochs of ontogenetic development, the origin and significance of play and other social activities. The aim is to give a psychological basis for the intelligent management of the pre-adolescent child. Class meets daily at 10:45 in S-213.

MR. HAYES

### GRADUATE COURSES

106s. Abnormal Psychology. Two credits.

Lectures, discussions and reports dealing with disorders of perception, association, memory, affection, volition, personality, judgment and action, with respect to their various normal phenomena. Class will visit institutions which treat mentally ill patients. Class meets daily at 8:25 in S-213.

MR. HAYES

102s. Social Psychology. Two credits.

The psychological bases of customs, social groups, mobs, superstitions, social control, clubs, castes, publics and other social controls. Prerequisites: Psychology 1 and Educational Psychology 3. Open to seniors and graduate students. Class meets daily at 7:15 in S-213.

117s. Advanced Educational Psychology.

A critical examination of the various views of the field of Educational Psychology, including the principles involved in the solution of educational problems. The emphasis will be upon psychological principles and their relation to the problems of education. Prerequisites: General Psychology 1 and Educational Psychology 3. Class meets two periods daily, at 7:15 in S-112, and at 9:35 in S-213, first three weeks, and one period daily, at 7:15 in S-112, last three weeks.

Students who are interested in some psychological investigation may enroll for one of the courses listed below. Careful assistance will be given the student in the solution of these and credit of one to two hours granted according to merit.

- 1. PROBLEMS IN GENERAL PSYCHOLOGY.
- 2. PROBLEMS IN EDUCATIONAL PSYCHOLOGY.

#### PUBLIC SCHOOL MUSIC

37s. Appreciation of Music. Two credits.

The aim of this course is to develop intelligent listeners. Lectures with musical illustrations, outside readings, written and oral criticisms, and the use of the best records, make the student familiar with important works of musical literature. Study of graded material and the methods of presenting the work to children. Class meets daily at 7:15 in Music Hall.

MR. ENDE

9s. Public School Music (Primary Grade). One credit. This course is devoted to the study and demonstration of materials and methods for kindergarten and the first four years in music. Special attention to the presentation of tonal and rhythmic problems as they are taken up in the successive years. Class meets daily at 10:45 in Music Hall.

10s. Public School Music (Upper Grade). One credit. 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. Class meets daily at 9:35 in Music Hall.

MR. ENDE

1s. Voice. One credit.

Two half-hour private lessons and one hour Master class lesson per week. Classic and standard songs. A working knowledge of the use of the voice is developed. In the Master class the anatomy of

the parts used in producing voice is explained. Vocal technique, song analysis, interpretation and repertoire. Each pupil must attend the Master class to receive credit. Private lessons are Monday and Thursday, from 9:00 to 3:00 o'clock. Time of Master class to be arranged. Cost of course, \$30.00. MR. STRASSNER

1s. Piano. One credit.

The work in piano will be devoted to repertoire with special care and emphasis on matters pertaining to technique. Six weeks; two lessons per week; Master class one hour per week. Time to be arranged to suit students. Cost of course, \$30.00. MR. DE LEONE

1s. VIOLIN. One credit.

The work in violin will be devoted to technique. Six weeks; two lessons per week; Master class one lesson per week. Time to be arranged to suit students. Cost of course, \$30.00.

MR. CHAPMAN

1s. Theory.

Additional work in organ and theory may be arranged with Professor Ende. Time and credit to be arranged.

#### SOCIOLOGY

1s. General Sociology. Two credits.

This course includes a study of the nature of society, and nature and scope of sociology, the evolution of social forms and activities, the development and functions of the state, the social phases of industry, the evolution of ethics and religion, the socialization of mankind, and the methods of social control. Class meets daily at 9:35 in B-38.

MR. DE GRAFF

5s. Sociology of Personality and Leadership. Two credits. Sociological factors in the formation of personality, struggle for psychic survival and self-hood, prestige, bases and methods of leadership, conservation of genius and talent, defeated and maladjusted personalities, will be considered in this course. Class meets daily at 11:55 in B-38. MR. DE GRAFF

11s. THE FAMILY. Two credits.

A systematic study of the sociological and psychological processes entering into modern family life. Special emphasis is upon sociological and psychological processes by which family unity is established and maintained and the processes which lead to disorganization and disintegration of family life. Class meets daily at 10:45 in B-38.

#### SPEECH

1s. Interpretation, and Reading Rehearsals. Three credits. Inflection, tone color, grouping, and tempo, as means of vocal expression, and as modes of expression, simplicity, responsiveness, and abandon, are studied in this course. Plays are rehearsed. Class meets one period daily, at 10:45, first three weeks; and two periods daily, at 9:35 and at 10:45, last three weeks, in B-12.

MISS MC EBRIGHT

2s. Voice and Speech. Three credits.

This course includes physical exercises for normal carriage and gestures. Personality is studied and preserved, while the appearance and address are aided in the process of development toward the normal type of cultivated manhood and womanhood. Class meets two periods daily, at 8:25 and at 9:35, first three weeks; and one period daily, at 8:25, last three weeks, in B-12.

MISS MC EBRIGHT

Students desiring private lessons may secure them of Miss McEbright.

35s. Dramatic Production. Two credits.

This course will involve the general problem of putting a play upon the stage, and will, therefore, include attention to acting, directing, stagecraft, organization, selection of plays, business management and kindred topics. Assigned readings, reports and practical laboratory work on plays. Class meets daily at 11:55 in B-12.

MR. MC NABB

1s. Public Speaking. Two credits.

This course is designed to give the student a preliminary survey of the subject of public speaking, the fundamentals of speech preparation, etc., and to develop simple and direct speaking. Required readings. Class meets daily at 7:15 in B-12.

MR. MC NABB

#### VOCATIONAL EDUCATION

3s. EDUCATIONAL AND VOCATIONAL GUIDANCE. Two credits. A basic course in guidance as an integrating influence in education. Youth must be oriented to school organization—a function as many phased as education itself. Guidance must be more than vocational, although the life career motive is the organizing factor. Class meets daily at 8:25 in B-13.

MR. GREENLY

16s. SHOP MANAGEMENT. Two credits.

A study of housing conditions and the selection and installation of equipment. Problems of shop maintenance. The effect of equipment on the course of study and choice of problems. Individual and quantity methods of production. Attention will be given to the educational abilities and preparation of students. Forms will be developed recording progress, ordering supplies, reporting to administrative officers, etc. Class meets daily at 11:55 in S-112.

MR. GREENLY

## SCHEDULE OF 1931 SUMMER SESSION CLASSES

All courses are credited in Teachers College; those starred (\*) receive credit in Buchtel College of Liberal Arts.

B refers to Buchtel Hall; C to Curtis Cottage; S to Spicer School Building; P to Phillips Hall; O to Olin Hall; K to Knight Hall; M. H. to Music Hall; Gym. to Crouse Gymnasium. The number after each subject indicates the room in which the class will recite.

Class will recite.
7:15 to 8:15
*Advanced Educational PsychologyS-112
Appreciation of Music
*ChemistryK-22
*CitizenshipB-15
*Design P-1
Folk Games
*History of EducationB-38
Tristory of Education
*History of English Language (First three weeks)B-32
*Home Economics (S-15)
Description (S-13)
Personal HygieneS-113
*Public SpeakingB-12
*Rhetoric 1B-26
*Shakspere (Last three weeks)B-32
Story Telling
*Social PsychologyS-213
Tests and Measurements (Elem.)S-212
*ZoologyO-25
8:25 to 9:25
8:25 to 9:25
*Abnormal PsychologyS-213 *Accounting
*Accounting
*American GovernmentB-25
*American Literature B-26 Correlative Education (First three weeks) B-37 *Design P-1
Correlative Education (First three
weeks)B-37
*DesignP-1
Educational and Vocational Guid- anceB-13
anceB-13
Folk GamesGym.
*General PsychologyS-112
*German B-22 *History of Education (First three weeks) B-38 Nature Study O-25
*History of Education (First three
weeks)B-38
Nature StudyO-25
Organization of Physical Education
ActivitiesS-113
Organization of Physical Education Activities S-113 Play Materials S-212 Principles of Education (Last three weeks) B-37
Principles of Education (Last three
weeks)B-37
*Rhetoric 2
School ManagementB-15
*Tennyson and BrowningB-32
*Voice and SpeechB-12
9:35 to 10:35
7.35 to 10:35
*Advanced Educational Psychology (First three weeks)S-213
*American HistoryB-25
*Durings Tom
*Business LawC-15 Children's LiteratureS-212
Children's LiteratureS-212
*College AlgebraB-13
*General Psychology (Last three weeks)
*General SociologyB-38
*German B-22

*History of English LanguageB-32
*Home Economics (S-17)
*Interpretation and Passing Da
*Interpretation and Reading Re- hearsals (Last three weeks)
*Principles of Economics 1
*Principles of Economics 1B-26 Principles of EducationB-37
Public School Music (Upper)M. H.
Reading (Do and Learn)S-112
Research and InvestigationS-113
Casandary Cabasi Mathods B 11
Secondary School MethodsB-11 *Structural ArtP-1
*Tests and Measurements for Sec-
*Voice and Speech (First three weeks) B-12
weeks)B-12
10:45 to 11:45
*Advanced Educational SociologyB-22
*American Literature (Last three
*American Literature (Last three weeks) B-32 *Chemistry K-22
*Chemistry
*Child PsychologyS-213
*Child Psychology S-213 High School Administration S-113 *Interpretation and Reading Rehearsals B-12
*Interpretation and Reading Re-
hearsalsB-12
*International RelationsB-15
*JournalismB-11
*Later Medieval HistoryB-25
*Philosophy of Education
*Philosophy of Education
*Principles of Economics 2B-37
Principles of Human GeographyS-212
Principles of Secondary EducationS-112
Public School Music (Primary)M. H. *Rhetoric 1 (First three weeks)B-32
*Rhetoric 1 (First three weeks) B-32
School Health C-8
School Health
*Structural Art and Still LifeP-1
Teaching of ArithmeticB-13
*The FamilyB-38
11:55 to 12:55
*College AlgebraB-13
Experimental Education
Consest Technique and Deinciples
General Technique and Principles of Kindergarten-Primary Educa- tion S-212 *Latin (S-51) B-32
tionS-212
*Latin (S-51)B-32
Modern Tendencies in EducationB-22
Play and Games 10Gym.
*Play ProductionB-12
*Rhetoric 2 (Last three weeks)B-26
Shop ManagementS-112
Sociology of PersonalityB-38
*Still LifeP-1
Teaching of Social Studies W-22
Teaching of Social Studies
three weeks)

### 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 CITY TESTING LABORATORY 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 Testing Laboratory was created and took charge of this work January 1, 1914. All analytical and diagnostic work of the city was done by the Laboratory until November, 1916, when a diagnostic bacteriological laboratory was created at the Board of Health office and assumed this work.

The Laboratory 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

The following list covers activities of the past few years: DEPARTMENT OF BIOLOGY

Close affiliation is maintained with the City Health Department. Bacteriological and serological testing and investigations are carried on in connection with the various clinics and hospitals. A "blood squad," composed of selected students, is held in readiness for emergency transfusions. Facilities are provided for research work on the part of some of the surgeons of the city. Numerous lectures and informal talks have been given before luncheon clubs and other organizations, in Akron and in nearby towns.

#### DEPARTMENT OF CHEMISTRY

Fellowships in the chemistry of india rubber, open to graduates of standard American colleges, have been established at the University by Akron rubber companies, for the purpose of training men for service in their laboratories.

#### DEPARTMENT OF ENGLISH

Field work in journalism for local newspapers and other publications.

#### DEPARTMENT OF PHYSICAL EDUCATION

Summer camp work for boys in Akron by Director and students.

#### HOME ECONOMICS

Arrangements have been made with the City Hospitals by which especially prepared students may take student training courses in

### COLLEGE OF ENGINEERING AND COMMERCE

Engineering students work alternate nine-week periods in foundries, machine shops, rubber factories, and on construction and railroad work. Arrangements have been made to provide outside work on an alternate semester 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 the engineering laboratory for testing purposes.

THE TEACHERS COLLEGE
The work of the Teachers College is specifically organized for the preparation and training of teachers for the Akron Public School system, the professional improvement of teachers already engaged in the Public School service, and the study of educational problems.

The first purpose the Teachers College is expected to achieve 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 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.

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 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. Students are required to do practice teaching for one semester.

#### THE EVENING SESSION

In addition to duplicating courses of study which are a part of the Day Session curriculum by offering these subjects as "University Training at Night," the Evening Session assists the various business associations of Akron to organize courses of college grade. Each course is organized separately with a guiding committee of association members and educational counselors including the head of the Department of Commerce and Administration. Each committee plans definite objectives for its course of study. The Evening Session supplies the teaching staff and place of meeting, and is responsible for the administration of the educational program as planned. The following associations have used this service with varied success:

The Akron Real Estate Board

The Akron Purchasing Agents Association

The Akron Retail Merchants Association

The Akron Advertising Club

The Akron Life Underwriters Association

See the Evening Session section for the committees and courses offered.

#### SHORT COURSES AND INSTITUTES

The Committee on Extension Lectures functions to provide clubs, business organizations and associations with lectures based on a definite objective developed by a survey or an apparent need. The lectures and study may be presented in series of from two to ten lectures, or in one or two day institutes as the organization desires. The Institutes so far organized by this committee have been for ten lectures, one each week for a period of ten weeks. The following institutes have been carried on the past year:

Merchandising
Life Underwriting
The C. L. U. Coaching Institute
The Essentials of Life Underwriting
Nature Study
Bird Study
Parental Education
Child Welfare
Industrial Foremanship

#### THE LIBRARY

The resources of the Library are open to citizens of the city of Akron for reference during the regular library hours, and for circulation in so far as the demands of classwork upon the collection will permit.

.....Youngstown

## REGISTER OF STUDENTS

### 1930-31

### BUCHTEL COLLEGE OF LIBERAL ARTS

## Braden, Orvan Everett B. S., College of Wooster. Brubaker, Irene B. E., The University of Akron. Dobberstein, Arthur Wesley B. S., South Dakota State College. Goodman, Nettie Nora M. A., The Ohio State University. Hayes, Merlin Lewis B. E., A. B., The University of Akron. Hottenstein, Howard W. M. D., Western Reserve University. Lin, Wen-piao B. S. in Chem. Eng'g., Drexel Institute. McFadden, Robert Stephen A. B., University of Denver. Meyer, Josephine Smith GRADUATE STUDENTS .....New Effington, S. D. .Akron .....China .....Austin, Colorado

B. S., Gettysburg College.	Men 7; Women 3; Total 10
SENIOR	CLASS
Major S	
Averell, Priscilla	History Akron
Bailey, Mary Nininger	EnglishNorfolk, Va.
Barnholth, Claude Robert	Math,Akron
Belohlavek, Vlasta Marie	BiolAkron
Bendure, Myrtelle	EnglishAkron
Berloff, Morris	BiolAkron
Belohlavek, Vlasta Marie Bendure, Myrtelle Berloff, Morris Bitner, Walter David	ChemAkron
Bliss, Raymond Charles Bump, Flora Margaret Caldwell, John Richard Clark, Elizabeth Margaret Coates, Mary Connelly, B. Franklin	SociologyAkron
Bump, Flora Margaret	SpanishAkron
Caldwell, John Richard	ChemAkron
Clark, Elizabeth Margaret	SpeechCuyahoga Falls
Coates, Mary	SpeechOklahoma City, Okla.
Connelly, B. Franklin	EconAkron
Conneny, Cech Frost	POI. SCIAKTON
Cooper, Graydon Phillips	SociologyAkron
Cox, Homer Theodore Creighton, Ruth C. Daily, Robert M. Decker, Faith	SpeechAkron
Creighton, Ruth C	MathAkron
Daily, Robert M	EconAkron
Decker, Faith	LatinAkron
Dete, Leo Joseph	Chem,Akron
Doerler, Charles Edward	Dioi,Akron
Dunwiddie, D. Stanley Emerick, William John	DLi Al
Fischer Alberta Class	Francisch Tallmodas
Fischer, Alberta Clara Fitzharris, Cletus James Flickinger, Helen Louise Flickinger, Eleanor Kathryn	English I almauge
Flickinger Helen Louise	Facish Curchage Falls
Flickinger Flanor Kathern	Uict Rarberton
Foutte James C	Fcon Akron
Foutts, James C	Home Ec Akron
Fulton Robert Palmer	Riol Akron
Germann, Paul Peter, Ir.	Econ. Akron
Gettins Patricia	French
Fulton, Robert Palmer Germann, Paul Peter, Jr. Gettins, Patricia Gregg, Judson Wilford	Pol. SciAkron

Gregory, Dorothy Winifred Gwaltney, Ralph Hall, William Newton Hamilton, Gertrude Morrow	Spanish	Akron
Gwaltney, Ralph	Chem	Akron
Hall. William Newton	Econ	Akron
Hamilton, Gertrude Morrow Hartz, Ralph William Hazlett, Charles Brown Himebaugh, Lucille Honeywell, Arvine Joseph Jackson, Mary Elizabeth Jenkins, James A. Jones, Cyril Joy, Marjorie Josephine Kastner, Lena Marie Kaufmann, Frank Philip Keck, Virgil Lowell Keister, Don Adams Kinnan, Esther Ruth Kroeger, Arthur Paul Krohmer, Jesse Gordon Ladrach, Roy Clinton Laudenbach, Elizabeth Adele Lewin, Charles A.	Home Ec	Akron
Hartz Ralph William	Biol.	Akron
Hazlett Charles Brown	Pol. Sci	Akron
Himehaugh Lucille	Phil	Akron
Honeywell Arvine Tosenh	Fcon	Akron
Toolson More Fliosboth	Sociology	Akron
Tankson, Mary Elizabeth	Foon	Akton
Jenkins, James A	ECOII	Alana
Jones, Cyril	ECOII	Cshare Folla
Joy, Marjorie Josephine	English	Chyanoga Falls
Kastner, Lena Marie	Rior	Akron
Kaufmann, Frank Philip	Pol. Sci	Akron
Keck, Virgil Lowell	Math	North Canton
Keister, Don Adams	English	Barberton
Kinnan, Esther Ruth	Latin	Akron
Kroeger, Arthur Paul	Chem	Akron
Krohmer, Jesse Gordon	English	Akron
Ladrach, Roy Clinton	Pol. Sci	Akron
Laudenbach Elizabeth Adele	Latin-German	Dramond
Lewin, Charles A.	Chem	Akron
Lieberman, Harry	Pre-med	Akron
Tink Many Von Jone	Foon	Akron
Mary Ray Jane	Diet	Greenwille S C
MacKenzie, Mary Sue	DIOI	
McGrath, Helen K.	Spanish	Alman
McShaffrey, Kita Rose	Speecn	A L
Maloney, Robert	Pol. Sci	Akron
Maxwell, Boyd Walden	Physics	Akron
Maxwell, Otis Grayden	Pol. Sci	Akron
Miller, Arthur N	Phil	Akron
Mostenic, Mary Ruth	Latin	Akron
Murdoch, John Kenneth	Econ	Akron
Nagy, Louis	Chem	Akron
Neff William Edward	Pol. Sci.	Bellaire
Lieberman, Harry Link, Mary Kay Jane MacKenzie, Mary Sue McGrath, Helen R. McShaffrey, Rita Rose Maloney, Robert Maxwell, Boyd Walden Maxwell, Otis Grayden Miller, Arthur N. Mostenic, Mary Ruth Murdoch, John Kenneth Nagy, Louis Neff, William Edward Newton, Frank H.	Chem	Akron
O'Neil Mary Catherine	English	Akron
Peabody Donald Webb	Chem	Akron
Dhalas Vontan Dobinson	Dre mod	Kent
Pierry, Kenton Kodinson	re-med	Aleon
Pittenger, Doris Kathleen	E1:-1	A1
Pittenger, John Marquis	English	A L
Poppenger, Grace Elizabeth	Hist	Akron
Reed, Margaret Lyle	Hist	Barberton
Reymond, Guy Maxwell	Chem	New Philadelphia
Ruby, Edith Mary	Home Ec	Akron
Sacks, Leon J.	Pre-med	Akron
Schmaltz, Robert Morris	Econ	Akron
Schneider, Dorothy Jeanne	Biol	Akron
Shank Donald Iay	English	Akron
Smith Mildred Eugenia	Home Ec.	Akron
Nagy, Louis Neff, William Edward Newton, Frank H. O'Neil, Mary Catherine Peabody, Donald Webb Phelps, Kenton Robinson Pittenger, Doris Kathleen Pittenger, John Marquis Poppenger, Grace Elizabeth Reed, Margaret Lyle Reymond, Guy Maxwell Ruby, Edith Mary Sacks, Leon J. Schmaltz, Robert Morris Schneider, Dorothy Jeanne Shank, Donald Jay Smith, Mildred Eugenia Snyder, Kathryn Elizabeth Sonnhalter, Mary Eleanor Stewart, Chalmers K. Walker, Sidney Roland Waller, Gerald Charles Wells, Edward William Wilhelm, Grace Julia Winans, Irene Marion Wirz, Elizabeth Ida Zeis, Ruth Marie Zellinger. Bella Rebecca	French	Akron
Sonnhalter Mary Flagger	Tatin	Rarherton
Stamort Chalman V	Fcon	Akron
Mail. Cide Daland	Dal Cai	Aleon
Waiker, Sidney Roland	F01. SCI	Development Vt
waller, Gerald Charles	IIISt	
Wells, Edward William	Econ	Akron
Wilhelm, Grace Julia	Home Ec	Fairiawn
Winans, Irene Marion	<u>H</u> ist,	Akron
Wirz, Elizabeth Ida	German	Akron
Zeis, Ruth Marie Zellinger, Bella Rebecca	Hist	Akron
Zellinger, Bella Rebecca	German	Akron
•	Men 53:	Women 42: Total 95
TITATIO	OR CLASS	
•		
Alexander, Donald Wilbur	Econ	Akron
Alexander, Joseph	Econ.	Akton
Anderson Alfred Verner	Chem	Rittman
Alexander, Johan Whom Alexander, Joseph Anderson, Alfred Verner Arnette, Rexford R. Bartlett, Jean Henrietta	Fcon	Mogadore
Partlett Jan Harrietta	Fnglich	Alene
Daruen, Jean Henriena		

Alexander, Donald Wilbur	Econ	Akron
Alexander, Joseph	Econ	Akron
Anderson, Alfred Verner	Chem	Rittman
Arnette, Rexford R.	Econ	Mogadore
Bartlett, Jean Henrietta	English	Akго <u>п</u>
Bergin, Preston Barrett	Pol. Sci	Flushing
Bernard, Madeline Marie	Hist	Barberton
Binet, Anna	Latin-French	Akron
Ritcon, Leroy	Biol.	Akron
Blair, Curtis L.	Biol	Akron
Botzum, Albert Conrad	Econ	Akron
Bryant, Charles Edmund	Econ	Akron
Cogan, Madeline Mary	English	Akron

Cook Fritzi	Speech	Alcron
Corbett, Laurene D.	Home Ec.	Akron
Courtney, Maude Teresa	.Home EcR.	D., Akron
DeCamp, Emily	Spanish	Akron
Dice, Lucille Elizabeth	.Hist	Akron
Dietrich, Mildred Elizabeth	Pol. Sci	Akron
Duell Non Pobertson	Cham	Malvern
Duncan Wilma Heilla	French	Akron
Earley, Lawrence Terence	Econ.	Akron
Engstrom, Ruth Isabelle	English	Akron
Falor, Clyde Forest, Jr	EconSociol	Akron
Ferguson, Dan Chayne	Chem	Akron
Fischer, Jesse Harry	Biol	Akron
Fletcher, Josephine Stanley	.English	Akron
Fulton, Harrison R.	Econ.	Akron
Gallemer, Ed Lucky	Pol Sci	A bron
Gause Russell H	Chem	Deerfield
German James William	Pre-med Cuv	ahoga Falls
Goff, Helen Bernadine	Speech	Akron
Goff, William	Biol	Akron
Green, Albert L.	Chem.	Akron
Griffiths, Esther Elizabeth	French	Akron
Gustafson, Harriet Marie	Home Ec.	Akron
Harrington, Mary Grace	.H1st	Akron
Harris, Adda Maude	Math	Akron
Hildreth Verna Fuela	Econ	Akron
Hoffman William Farle	Riol	Akron
Kinney Charles William	Math	Akron
Ladd. Helen Louise	English	Akron
Laurence, James	Physics	Akron
Lombardi, Louis Frederick	Biol,	Akron
Lowen, Ellis Edgar	Biol	Akron
McCaughey, Amy	.Hist	Akron
McDonald, Ruth	English	Akron
McDowell, Arthur Joseph	Math	Alren
McDowell, Edwin Lincoln	Diel	Alrean
Maynard, Edward Alfred	Diol	Akron
Mills Vera Kathrine	Hist	Mogadore
Myers Elizabeth Prince	French	Akron
Nolley, Gilbert Talmadge	Chem	Akron
Owsley, Ruth Virginia	French	Akron
Pardee, Caroline Julia	French	Akron
Pfeifer, Wilbur Frank	_Biol	Akron
Rabe, Herman Ernest	.Pol. Sci	Akron
Radam, David	.Econ.,	Akron
Reaven, Shirley	Speech	Alron
Pobb Ismes Edward	For	Akron
Robertson Mervin Paul	Biol	Akron
Roseman, Hyman	Math.	Akron
Rutherford, James E.	Pol. Sci.	
		Akron
Schoch, Otto Ferdinand	.German	Akron Akron
Schoch, Otto Ferdinand	German Speech	Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller	German Speech French	Akron Akron Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney	German Speech French Pol. Sci.	Akron Akron Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew	German Speech French Pol. Sci. Pre-med.	Akron Akron Akron Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis	German Speech French Pol. Sci. Pre-med. Econ.	Akron Akron Akron Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy	German Speech French Pol. Sci. Pre-med Econ. Physics Speech	Akron Akron Akron Akron Akron Akron Akron Akron Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford Helen Carver	German Speech French Pol. Sci. Pre-med Econ. Physics Speech French	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist Phil. Biol.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne	German Speech French Pol. Sci. Pre-med. Econ, Physics Speech French Hist Phil. Biol. French	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist. Phil. Biol. French	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E.	German Speech French Pol. Sci. Pre-med Econ. Physics Speech French Hist. Phil. Biol. French Home Ec.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist Phil Biol. French Econ. Home Ec. Biol.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist. Phil. Biol. French French Home Ec. Biol. English	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie Williams, Mathew Q. Wilson Herman Stewart	German Speech French Pol. Sci. Pre-med Econ. Physics Speech French Hist Phil. Biol. French Econ. Home Ec. Biol. English Chem.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Trucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie Williams, Mathew Q. Wilson, Herman Stewart Wise, Miriam Lucille	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist Phil. Biol. French Econ. Home Ec. Biol. English Chem. Phil.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie Williams, Mathew Q. Wilson, Herman Stewart Wise, Mirjam Lucille Wright, Harry Lavern	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist. Phil. Biol. French Econ. Home Ec. Biol. English Chem.	Akron
Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Trafford, Helen Carver Tucker, Margaret Routh Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Elliot Wallace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie Williams, Mathew Q. Wilson, Herman Stewart Wise, Miriam Lucille Wright, Harry Lavern Young, Geraldine Carolyn	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist. Phil. Biol. French Home Ec. Biol. English Chem. Phil. English Chem. French	Akron
Cook, Fritzi Corbett, Laurene D. Courtney, Maude Teresa DeCamp, Emily Dice, Lucille Elizabeth Dietrich, Mildred Elizabeth Dietz, LeRoy Edward Duell, Nap Robertson Duncan, Wilma Urilla Earley, Lawrence Terence Engstrom, Ruth Isabelle Falor, Clyde Forest, Jr. Ferguson, Dan Chayne Fischer, Jesse Harry Fletcher, Josephine Stanley Fulton, Harrison R. Galleher, Ed Lucky Galloway, Robert William Gause, Russell H. German, James William Goff, Helen Bernadine Goff, William Green, Albert L. Griffiths, Esther Elizabeth Gustafson, Harriet Marie Harrington, Mary Grace Harris, Adda Maude Heisel, Eldred Benjamin Hildreth, Verna Engle Hoffman, William Earle Kinney, Charles William Ladd, Helen Louise Laurence, James Lombardi, Louis Frederick Lowen, Ellis Edgar McCaughey, Amy McDonald, Ruth McDowell, Arthur Joseph McDowell, Fedwin Lincoln Maynard, Edward Alfred Merrill, Mildred Mills, Vera Kathrine Myers, Elizabeth Prince Nolley, Gilbert Talmadge Owsley, Ruth Virginia Pardee, Caroline Julia Preifer, Wilbur Frank Rabe, Herman Ernest Radam, David Reaven, Shirley Reinker, Erwin Ellsworth Robb, James Edward Robertson, Mervin Paul Roseman, Hyman Rutherford, James E. Schoch, Otto Ferdinand Shannon, Floyd Eugene Smith, Mary Heller Smith, Mary Heller Smith, Sydney Stadtmiller, Alvin Andrew Stoddard, Louis Straw, Clayton LeRoy Thompson, Aida Beth Turner, John Donald Van Sickle, Thomas Edwin Voige, Suzanne Wainer, Ellizabeth Wailace, Mary E. Wentsler, Norman Edgar Wilde, Bertha Marie Williams, Mathew Q. Wilson, Herman Stewart Wise, Miriam Lucille Wright, Harry Lavern Young, Geraldine Carolyn	German Speech French Pol. Sci. Pre-med. Econ. Physics Speech French Hist Phil Biol. French Econ. Home Ec. Biol English Chem. French Men 53; Women 3	Akron

#### SOPHOMORE CLASS

Affleck, Caroline Amelia French Akron Bailey, Howard E. Chem. Akron Barnes, Wilbur Lancaster Math. Akron Barnes, Wilbur Lancaster Math. Akron Bishop, Deane Hamilton Econ. Akron Blakr, Warren Smith Physics Akron Blart, Warren Smith Physics Akron Blart, Warren Smith Physics Akron Borhard, Edith Louise Fall. Akron Blart, Warren Smith Physics Akron Blart, Warren Smith Physics Akron Borhard, Edith Louise Fall. Akron Bronse, Majorie Eleanor Biol. Akron Brouse, Majorie Eleanor Biol. Akron Brunswick, Paul Edward Econ. Akron Brukey, Jay Clark English Akron Burke, Charles Mayhew Chem. Akron Crane, Mary Esther Home Ec. Barberton Creps, Roy C. Physics Martinsburg, Pa. Akron Dameron, James Edwin Wath Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Bishol, Miriam Alverda English Akron Eckard, Arlene Velda Latin Akron Ekston, James William Biol. Akron Ekston, James William Biol. Akron Belber, Alvin George Pre-med. Cuyabaga Falls Erwine, Robert Martin Math. Akron Gay, Kenneth Stull Econ. Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Glenene, James William French Akron Glenene, James William French Akron Glenene, James William French Akron Hult, Agnes Amanda Phil. Akron Hult, Agnes Amanda Pre-med. Akron Mikolas	SOPHOMO	ORE CLASS	
Bailey, Howard E.	Affleck, Caroline Amelia	French	Akron
Bailey, John	Bailey, Howard E	.Chem	Akron
Barnes, Wilbur Lancaster Benedict, Lucius Claude Pol. Sci. Akron Benedict, Lucius Claude Pol. Sci. Akron Benedict, Lucius Claude Benedict, Caron Blair, Warren Smith Physics Akron Blair, Warren Smith Physics Akron Bowman, Richard Rodman Boon. Akron Bowman, Richard Rodman Boon. Akron Bowman, Richard Rodman Boon. Akron Brouse, Marjorie Eleanor Blol. Akron Brouse, Marjorie Eleanor Buckey, Fay Clark English Akron Burke, Charles Mayhew Chem. Akron Burke, Charles Mayhew Chem. Akron Cohen, Abe Stanley Math. Chem. Akron Cohen, Abe Stanley Math. Akron Cohen, Abe Stanley Math. Akron Domeron, James Edwin English Akron Deetjen, Jack Van Der Wart Pol. Sci. Akron Deetjen, Jack Van Der Wart Pol. Sci. Akron Destien, James Edwin English Akron Eston, James William Biol. Akron Eston, James William Biol. Akron Eston, James William Biol. Akron Estor, Alvin George Martinstura Elber, Alvin George Martinstura English Akron Felnard Galchouse, Jean Utilla Latin Akron Goodman, Leo Mathias Premed, Akron Hallwell, Marjorie Eleanor Math. Akron Hallwell, Alexen Akron Hallwell, Agnes Amanda Prini Akron Hallwell, Agnes Amanda Premed. Akron Hallwell, Alexen Akron Hallwell, Alexen Akron Hallwell, Agnes Amanda Prini Akron Hallwell Akron	Bailey, John	.Pol. Sci	Akron
Benedict, Lucius Claude Fol. Sct. Akron Bent, Jane Hamilton Math. Akron Bent, Jane Hamilton Math. Akron Blackman, Ruth Jeanette Speech Akron Blackman, Ruth Jeanette Speech Akron Blackman, Ruth Jeanette Speech Akron Bohnard, Edith Louise Phil. Akron Bowen, Bertha Gertrude Egglish Akron Bowen, Bertha Gertrude Egglish Akron Bowen, Bertha Gertrude Egglish Akron Bownan, Richard Rodman Econ. Akron Bowman, Richard Rodman Econ. Akron Brunswick, Paul Edward Econ. Akron Cheyney, LaVerne Emerson Chem. Akron Cheyney, LaVerne Emerson Chem. Akron Cheyney, LaVerne Emerson Chem. Akron Crane, Mary Esther Home Ec. Martinsburg, Pa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Ekston, James William Biol. Akron Ekston, James William Biol. Akron Ekston, James William Biol. Akron Ekster, Alvin George Pre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Folb, Bernard Utilia Biol. Akron Ekster, Alvin George Pre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Gay, Kenneth Stull Econ. Akron Giegel, John Stanley Chem. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Halwett, Martin Econ. Akron Goddard, Mac Lee Econ. Akron Halwett, Marjorie Elesor Math. Akron Akron Halwett, Marjorie Elesor Math. Ak	Barnes, Wilbur Lancaster	Math.	Akron
Beht, Jane Hamilton Math Actor Bishop, Deer Hamilton Soch Actor Blair, Warren Smith Physics Actor Blair, Warren Smith Physics Actor Blair, Warren Smith Phil Actor Bownan, Reithard Rodman Econ. Akron Bowman, Richard Rodman Econ. Akron Brouse, Marjorie Eleanor Biol. Akron Brouse, Marjorie Eleanor Biol. Akron Brunswick, Paul Edward Econ. Akron Buckey, Jay Clark Econ. Akron Delen, Aberton Creps, Roy C. Physics Martinsburg, Pa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Dameron, James Edwin Econ. Akron Detetjen, Jack Van Der Wart Econ. Akron Dieth, Miriam Alverda English Akron Dieth, Miriam Alverda English Akron Eckard, Achen Velda Latin Akron Fanning, James Joseph Econ. Akron Fanning, James Joseph Econ. Akron Gaiy Kennerth Stull Econ. Akron Gay, Kennerth Stull Econ. Akron Gay, Kennerth Stull Econ. Akron Gay, Kennerth Stull Econ. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Hakkett, Phyllis Elizabeth English Akron Hakkett, Phyllis Elizabeth English Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Cha	Benedict, Lucius Claude	.Pol. Sci	Akron
Bistop, Jeener Hamette Bisto, Warren Snith Bisto, Warren Snith Bisto, Warren Snith Bowen, Bertha Gertrude Boukey, Jay Clark Burke, Paul Edward Burke, Charles Maynev Chem, Akron Burke, Charles Maynev Chem, Akron Burke, Charles Maynev Chem, Akron Cohen, Abe Stanley Math. Akron Crane, Mary Esther Home Ec. Barberton Creps, Roy C. Physics Martinsburg, Pa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Dectiven, James Edwin Burkey Boyley Boy	Bent, Jane	Math	Al
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Bonhard   Edith Louise   Phil   Akron   Bowen, Bertha Gertrude   English   Akron   Bowen, Bertha Gertrude   English   Akron   Bown, Bertha Gertrude   English   Akron   Brouse, Marjorie Eleanor   Biol   Akron   Brouse, Marjorie Eleanor   Biol   Akron   Burkey, Jay Clark   English   Akron   Burkey, Jay Clark   English   Akron   Burkey, Lay Clark   English   Akron   Burkey, Charles   Mayhew   Chem   Akron   Cohen, Abe Stanley   Math   Ec   Bakaron   Cohen, Abe Stanley   Math   Ec   Bakaron   Cohen, Abe Stanley   Math   Ec   Bakaron   Cohen, Abe Stanley   Physics   Martinaburg, Pa. Cronan, Gertrude Elizabeth   Pol. Sci.   Akron   Description, James Edwin   English   Akron   Description, James Edwin   English   Akron   Description, James Edwin   English   Akron   Description, James Martina   Biol   Akron   Eckard, Arlene Velda   Latin   Cuyahoga Falls   Erwine, Robert Martin   Math   Akron   Elber, Alvin George   Pre-med.   Cuyahoga Falls   Erwine, Robert Martin   Math   Akron   Akron   Elber, Alvin George   Biol   Akron   Elber, Alvin George   Biol   Akron   Akron   Galchouse, Jean Utilla   Latin   Akron   Galchouse, Jean Utilla   Latin   Akron   Galchouse, Jean Utilla   Latin   Akron   Goddard, Mac Lee   Econ   Akron   Hackett, Phyllis Elizabeth   English   Akron   Akron   Goddard, Mac Lee   Econ   Akron   Goddard, Mac Lee   Econ   Akron   Goddard, Mac Lee   Econ   Akron	Plair Warren Smith	Physics	Akron
Bowen, Bertha Gertrude   English   Akron Brouse, Marjorie Eleanor   Biol   Akron Brouse, Marjorie Eleanor   Biol   Akron Brouse, Marjorie Eleanor   Biol   Akron Buckey, Jay Clark   Econ. Akron Buckey, Jay Clark   English   Akron Buckey, Jay Clark   English   Akron Cheyney, LaVerne Emerson   Chem.   Akron Cheyney, LaVerne Emerson   Chem.   Akron Crane, Mary Esther   Home Ec.   Barberton Creps, Roy Csther   Blome Ec.   Martinsburg, Fa Pol Sci.   Akron Crane, Mary Esther   Pol Sci.   Martinsburg, Fa Pol Sci.   Akron Dameron, James Edwin   English   Akron Deteiter, Jack Van Der Wart   Pol Sci.   Akron Diehl, Miriam Alverda   English   Akron Diehl, Miriam Alverda   English   Akron Elber, Alvin George   Pre-med   Cuyahoga Falls Erwine, Robert Martin   Math.   Akron Elber, Alvin George   Pre-med   Cuyahoga Falls Erwine, Robert Martin   Math.   Akron Polb, Bernard   Biol   Akron Galchouse, Jean Utilla   Latin   Akron Galchouse, Jean Utilla   Latin   Akron Galchouse, Jean Utilla   Latin   Akron Goddard, Mac Lee   Econ.   Akron Goddard, Mac Lee   Econ.   Akron Hallwell, Marjoric Eleanor   Akron Goddard, Mac Lee   Econ.   Akron Hallwell, Marjoric Eleanor   Akron Huuston, James William   Fre-med, Akron Houston, Violet Bates   Econ.   Akron Hummel, Richard Charles   Econ.   Akron   Akron Hummel, Richard Charles   Econ.   Akron   Akr	Bonhard Edith Louise	Phil	Akron
Bowman, Richard Rodman Brouse, Marjorie Eleanor Biol. Brunswick, Paul Edward Econ. Brunswick, Paul Edward Econ. Brunswick, Paul Edward Econ. Brunswick, Paul Edward Econ. Burke, Charles Mayhew Chem. Akron Burke, Charles Mayhew Chem. Akron Cohen, Abe Stanley Chem. Akron Cohen, Abe Stanley Math. Crane, Mary Esther Home Ec. Barberton Crane, Mary Esther Politics Crane, Mary Esther Politics Crane, Mary Esther Politics P	Bowen, Bertha Gertrude	English	Akron
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Brunswick, Paul Edward Econ. Akron Burke, Charles Mayhew Chem. Akron Burke, Charles Mayhew Chem. Akron Cheme. Akron Cheme. Akron Cohen, Abe Stanley Math. Akron Cohen, Abe Stanley Math. Akron Cohen, Abe Stanley Math. Akron Crane, Mary Esther Home Ec. Martinsburg, Pa. Crane, Mary Esther Phone Ec. Akron Dameron, James Edwin Wart. Pol. Sci. Akron Dameron, James Edwin Wart. Pol. Sci. Akron Dameron, James Edwin Wart. Pol. Sci. Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Eckard, Arlene Velda Latin Cakron. James William Biol. Akron Eckard, Arlene Velda Latin Cakron. Akron Eber, Alvin George Pre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Fanning, James Joseph Econ. Akron Galchouse, Jean Utilla Latin Akron Galchouse, Jean Utilla Latin Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Halliwell, Marjorie Eleanor Math. Akron Halliwell, Marjorie Eleanor Math. Akron Houser, Kermit J. Biol. Akron Hull, Agnes Marland Phil. Akron Houser, Kermit J. Biol. Akron Hull, Agnes Amanda Phil. Akron Akron Hull, Agnes Amanda Phil. Akron Hull, Agnes Amanda Phil. Akron Hull, Agnes Amanda Phil. Akron Akron Hull, Agnes Amanda Phil. Akron Akron Hull, Agnes Amanda Phil. Akron Akron Phil. Biol. Akron Akron Hull, Agnes Amanda Phil. Akron Akron Phil. Akron Akron Phil. Akron Hull, Agnes Amanda Phil. Akron Akron Phil. Akron Phil. Akron Akron Phil. Akron Phi	Brouse, Marjorie Eleanor	Biol	Akron
Buckey, Jay Clark	Brunswick, Paul Edward	Econ	Akron
Burke, Charles Mayhew Chem Akron Cheyney, LaVerne Emerson Chem Akron Cohen, Abe Stanley Math Akron Cohen, Abe Stanley Math Akron Crap, Mary Esther Home Ec. Barberton Crape, Roy C. Physics Martinsburg, Pa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Dameron, James Edwin English Akron Dettien, Jack Van Der Wart Pol. Sci. Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Eckard, Arlene Velda English Akron English English Akron English English Akron Eckard, Arlene Velda English Akron English English Akron English English Akron English Akron English English Akron English Akron Eagh, Eegen William Econ. Akron Gay, Kenneth Stull Econ. Akron Giegel, John Stanley Chem Akron Giennen, James William French Akron Goddard, Mac Lee Econ. Akron Haliwell, Marjoric Eleanor Math Akron Haliwell, Marjoric Eleanor Math Akron Haliwell, Marjoric Eleanor Math Akron Hoffman, Catherine C. Hist. Akron Hooper, John L. Biol. Akron Houston, Violet Bates English Akron Houston, Violet Bates English Akron Hummel, Richard Charles Econ. Akron Hutchinson, James Paul Pol. Sci. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hurchinson, James Paul Pol. Sci. Akron Hummel, Richard Charles Econ. Akron Hurchinson, James Marland French Akron Hurchinson, Fre	Buckey, Jay Clark	English	Akron
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Cohen, Abe Stanley Math Akron Crane, Mary Esther Home Ec. Barberton Creps, Roy C. Physics Martinsburg, Pa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Dameron, James Edwin English Akron Deetien, Jack Van Der Wart Pol. Sci. Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Eckard, Arlene Velda Prome Company Com	Cheyney, LaVerne Emerson	.Chem	Akron
Craps, Roy C. Physics Martinsburg, Fa. Cronan, Gertrude Elizabeth Pol. Sci. Akron Dameron, James Edwin English Akron Deetjen, Jack Van Der Wart Pol. Sci. Akron Deetjen, Jack Van Der Wart Pol. Sci. Akron Deetjen, Jack Van Der Wart Pol. Sci. Akron Deetjen, Jariman Alverda English Akron Easton, James William Blol. Akron Easton, James William Blol. Akron Eiber, Alvin George Pre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Eiber, Alvin George Pre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Galchouse, Jean Utilla Blol. Akron Galchouse, Jean Utilla Enwine, Blol. Akron Galchouse, Jean Utilla Enwine, Robert Martin Akron Galchouse, Jean Utilla Enwine, Robert Martin Akron Glesmen, James William French Akron Glesmen, James William French Akron Goodman, Leo Mathias Pre-med, Akron Goodman, Leo Mathias Pre-med, Akron Goodman, Leo Mathias Pre-med, Akron Halliwell, Marjorie Eleanor Math. Akron Halliwell, Marjorie Eleanor Math. Akron Houser, Kermit J. Biol. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Akron Hummel, Richard Charles Econ. Akron Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Akron Hummel, Richard Charles Econ. Akron Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Akron Kaplan, Hirsh Sociol. Cleveland Kempel, George Paul Econ. Akron Akron Knecht, Lawrence G. Pol. Sci. Akron Kruck, William Carl Econ. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Howard Pre-med. Akron Pre-med. Akron Maryanski, William Howard Pre-med. Akron Pre-med. Akron Minolich, Pauline Ione Hist. Barberton Mikolashek, Harold Rudolph Pol. Sci. Akron Pre-med. Akron Pre-med. Akron Murdoch, Robert Marshall Pre-med. Akron Pre-med. Akron Murdoch, Robert Marshall Pre-med. Akron Pre-m	Cohen, Abe Stanley	.Math	Akron
Cropan, Gertrude Elizabeth P.O. Sci. Akron Dameron, James Edwin English Akron Dettien, Jack Van Der Wart P.O. Sci. Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Diehl, Miriam Alverda English Akron Eckard, Arlene Velda Latin Biol. Akron Eckard, Arlene Velda Latin Cuyaboga Falls Erwine, Robert Martin Math Akron Folb, Bernard Biol. Akron Folb, Bernard Biol. Akron Galehouse, Jean Utilla Latin Akron Gaje, Kenneth Stull Econ. Akron Gaje, Kenneth Stull Econ. Akron Giegel, John Stanley Chem Akron Gienen, James William French Akron Goddard, Mac Lee Econ. Akron Hackett, Phyllis Elizabeth English Akron Halliwell, Marjorie Eleanor Math Akron Hooper, John L. Biol. Akron Houser, Kermit J. Biol. Akron Houser, Kermit J. Biol. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Jahant, Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hutchinson, James Marken Hummel, Richard Charles Econ. Akron Hummel, Robert Amendt Hist. Akron Hummel, Robert Charles Econ. Akron Hummel, Robert Amendt Hist. Akron Hummel, Robert Charles Econ. Akron Humme	Crane, Mary Esther	.Home Ec	Barberton
Gronan, Gertrude Enzabetin C. Sci. Sci. Akron Detejen, Jaroke Van Der Wart C. Sci. Sci. Akron Detejen, Jack Van Der Wart C. Sci. Sci. Akron Detejen, Jaroke Van Der Wart C. Sci. Sci. Akron Diehi, Miriam Alverda English Akron Easton, James William B. Sci. Sci. Akron Eston, James William B. Sci. Sci. Akron Elber, Alvin George P. Pated. C. Cuyaboga Ran Elber, Alvin George P. Sci. Sci. Sci. Sci. Sci. Sci. Sci. Sci	Creps, Roy C	Poi Co:	viartinsburg, Pa.
Dantiell, Jack Van Der Wart  Dettjen, Jack Van Der Wart  Dichl, Miriam Alverda  Egiglish  Akron  Bish, Miriam Alverda  Egiglish  Biol.  Akron  Eckard, Arlene Velda  Ether, Alvin George  Pe-med.  Cuyahoga Falls  Erwine, Robert Martin  Math.  Akron  Folib, Bernard  Gold.  Galehouse, Jean Utilla  Econ.  Akron  Gay, Kenneth Stull  Econ.  Akron  Giegel, John Stanley  Chem.  Chem.  Akron  Goddard, Mac Lee  Fronch  Hackett, Phyllis Elizabeth  Fronch  Hooper, John Lattin  Catherine C.  Hoffman, Catherine C.  Hoffman, Catherine C.  Hoffman, Catherine C.  Holl Biol.  Akron  Housen, Voit Bates  Housen, Voit Bates  Hummelr Richard Charles  Phil  Akron  Hummelr Richard Charles  Feon.  Akron  Hummelr Richard Charles  Feon.  Akron  Akron  Hummelr Richard Charles  Feon.  Akron  Hahant, Charles Augustine  Econ.  Akron  Akron  Honek, Jack Sandard  French  Akron  Hummelr Richard Charles  Feon.  Akron  Akron  Akron  Akron  Hummelr Richard Charles  Feon.  Akron  A	Dameson James Edwin	Fnolish	Akron
Debeh, Mriam Alverda Easton, James William Easton, James William Biol. Akron Elber, Alvin George Fre-med. Latin Akron Elber, Alvin George Fre-med. Cuyahoga Falls Erwine, Robert Martin Math. Akron Fanning, James Joseph Econ. Akron Folb, Bernard Galchouse, Jean Utilla Latin Gay, Kenneth Stull Econ. Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Halliwell, Marjorie Eleanor Halliwell, Marjorie Eleanor Halliwell, Marjorie Eleanor Hooper, John L. Biol. Hooper, John L. Biol. Houston, Violet Bates English Houston, Violet Bates English Akron Houston, Nolet Bates English Akron Houston, Hance Alardon Hummel, Richard Charles Econ. Hakron Hummel, Richard Charles Econ. Akron Hummel, Richard Charles Econ. Akron Hones, James Paul Pol. Sci. Akron Jones, James Marland French Akron Akron Kempel, George Paul Econ. Akron Jones, James Marland French Akron Kempel, George Paul Econ. Akron Kempel, George Paul Econ. Akron Kempel, George Paul Econ. Akron Maryanski, William Carl Econ. Akron Maryanski, William Carl Econ. Akron Maryanski, William Carl Econ. Akron Movery, Robert Amendt Hist Akron Movery, Robert Amendt Hist Akron Movery, Robert Amendt Hist Akron Movery, Robert Marshall Pre-med. Akron Moroshich, Harold Rudolph Pol. Sci. Akron Movery, Robert Marshall Pre-med. Akron Pre-med	Destina Tack Van Der Wart	Pol Sci	Akron
Easton, James William Eckard, Arlene Velda Eckard, Arlene Velda Eckard, Arlene Velda Ekkerd, Arlene Velda Erwine, Robert Martin Erwine, Robert Martin Erwine, Robert Martin Erwine, Robert Martin Ecken Erwine, Robert Martin Ekkerd Erwine, Robert Martin Ekkerd Erwine, Robert Martin Ekkerd Erwine, Robert Martin Ekkerd Egon, Arkon Arkon Edon, Arkon Ekkerd	Diehl Miriam Alverda	English	Akron
Eckard, Arlene Velda         Latin         Akron           Eiber, Alvin George         Pre-med.         Cuyaboga Falls           Erwine, Robert Martin         Math.         Akron           Fanning, James Joseph         Econ.         Akron           Fallia         Biol.         Akron           Galenen, Stull         Econ.         Akron           Giegel, John Stanley         Chem.         Akron           Giennen, James William         French.         Akron           Goddard, Mac Lee         Econ.         Akron           Goddard, Mac Lee         Econ.         Akron           Halliwell, Marjorie Eleanor         Math.         Akron           Halliwell, Marjorie Eleanor         Math.         Akron           Hooper, John L.         Biol.         Akron           Houston, Violet Bates         English         Akron           Houston, Violet Bates         English         Akron           Hummel, Richard Charles         Econ.         Akron           Hummel, Richard Charles         Econ.         Akron           Jahant, Charles Augustine         Econ.         Akron           Jones, James Marland         French         Akron           Jones, James Marland         French	Easton James William	Biol.	Akron
Eiber, Alvin George	Eckard, Arlene Velda	Latin	Akron
Erwine, Robert Martin	Eiber, Alvin George	Pre-med.	.Cuvahoga Falls
Fanning, James Joseph Econ. Akron Folb, Bernard Biol. Akron Galehouse, Jean Utilla Latin Akron Gay, Kenneth Stull Econ. Akron Giegel, John Stanley Chem. Akron Giegel, John Stanley Chem. Akron Glennen, James William French. Akron Goddard, Mac Lee Econ. Akron Goddard, Mac Lee Econ. Akron Hackett, Phyllis Elizabeth English Akron Hackett, Phyllis Elizabeth English Akron Halliwell, Marjorie Eleanor Math. Akron Hooper, John L. Biol. Akron Hooper, John L. Biol. Akron Houser, Kermit J. Biol. Akron Huummel, Richard Charles Econ. Akron Hull, Agnes Amanda Phil. Akron Hull, Agnes Amanda Phil. Akron Hummel, Richard Charles Econ. Akron Hutchinson, James Paul Pol. Sci. Akron Jahant, Charles Augustine Econ. Akron Jahant, Charles Augustine Econ. Akron Jones, James Marland French Akron Kaplan, Hirsh Sociol. Cleveland Kempel, George Paul Econ. Akron Knecht, Lawrence G. Pol. Sci. Akron Knecht, Lawrence G. Pol. Sci. Akron Maryanski, William Carl Econ. Akron Maryanski, William Carl Econ. Akron Maryanski, William Carl Econ. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Carl Econ. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Carl Econ. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Carles Econ. Akron Maryanski, William Howard Pre-med. Akron Maryanski, William Howard Pre-med. Akron Mosery, Robert Marshall Pre-med. Akron Mosery, Robert Marshall Pre-med. Akron Pre-med. Akron Mosery, Robert Marshall Pre-med. Akron Akron Mosery, Robert Marshall Pre-med. Akron Akron Mosery, Robert Marshall Pre-med. Akron Akron Mikolashek, Harold Rudolph Pol. Sci. Akron Akron Powell, Sara Valerie Math. Akron Akron Schlegel, Alfred Parker Pol. Sci. Akron Schlegel, Alfred Parker Pol. Sci. Akron Schlegel, Alfred Parker Pol. Sc	Erwine, Robert Martin	Math	Akron
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Hull, Agnes Amanda	Houston, Violet Bates	English	Akron
Hummel, Richard Charles	Hull, Agnes Amanda	Phil	Akron
Hutchinson, James Paul	Hummel, Richard Charles	Econ.	Akron
Jahant, Charles Augustine	Hutchinson, James Paul	.Pol. Sci	Akron
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Jones, James Marland	Jenkins, Edward Charles	.Econ	Akron
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Read, Helen Elizabeth         French         Akron           Rector, Billie Inez         Speech         Akron           Ruffing, Jean Elizabeth         French         Akron           Ryan, William John         Pre-med         Akron           Salyerds, Robert John         Chem.         Akron           Schlegel, Alfred Parker         Pol. Sci.         Akron           Schultz, Ernest John         Pol. Sci.         Akron	Putt, Charles Edward	.Econ	Akron
Rector, Billie Inez     Speech     Akron       Ruffing, Jean Elizabeth     French     Akron       Ryan, William John     Pre-med     Akron       Salyerds, Robert John     Chem.     Akron       Schlegel, Alfred Parker     Pol. Sci.     Akron       Schultz, Ernest John     Pol. Sci.     Akron	Read, Helen Elizabeth	French	Akron
Ruffing, Jean Elizabeth French Akron Ryan, William John Pre-med. Akron Salyerds, Robert John Chem. Akron Schlegel, Alfred Parker Pol. Sci. Akron Schultz, Ernest John Pol. Sci. Akron	Rector, Billie Inez	.Speech	Akron
Kyan, William John Pre-med. Akron Salyerds, Robert John Chem. Akron Schlegel, Alfred Parker Pol. Sci. Akron Schultz, Ernest John Pol. Sci. Akron	Ruffing, Jean Elizabeth	French	Akron
Salyergs, Robert John Chem. Akron Schlegel, Alfred Parker Pol. Sci. Akron Schultz, Ernest John Pol. Sci. Akron	Kyan, William John	Pre-med.	Akron
Schultz, Ernest John Pol. Sci. Akron	Salverds, Kobert John	.Cnem	Akron
Schutz, Educat JohnAkton	Schultz Fraget John	Pol Sci	A beca
	Conunt, Dinest John	.1 04. 004	AA.UII

Scott, Ella Mildred Latin Akron Shaul, Rex Kennedy Biol Akron Shibley, Grant O. Pre-med. Akron Shibley, Grant O. Pre-med. Akron Shriber, Portia Arlene Hist. Akron Shriber, Portia Arlene Hist. Akron Simmons, Catherine Whiton Phil. Akron Simth, George Phillips Biol. Akron Smith, Henry Clay Latin Akron Smith, Henry Clay Latin Akron Smith, Mina Elizabeth Ross French Akron Snider, Mark English Akron Solomon, Sidney Milton Biol. Akron Solomon, Sidney Milton Biol. Akron Soper, Cleveland Conner Pre-med. Kent Sowers, Thelma Kathryn Math. Akron Spade, Ralph Irvin Math. Akron Stebick, Harold Anthony Pol. Sci. Barberton Stillman, Laura Jane English Akron Stombaugh, Dean Rudolph Pre-med. Akron Waldsmith, Bernice Elizabeth Hist. Akron Waldsmith, Bernice Elizabeth Hist. Akron Weiler, John Earl Chem. Barberton Wheeler, Vaughn V. Chem. Barberton Williams, Terrence Ellsworth Chem. Akron Akron Williams, Terrence Ellsworth Chem. Akron Akron Williams, Terrence Ellsworth Chem. Akron Millens, Terrence Ellsworth Chem. Akron Akron Word Versteht Variete.
Short, Eleanor Justina         Math.         Akron           Shriber, Portia Arlene         Hist         Akron           Simmons, Catherine Whiton         Phil.         Akron           Smith, George Phillips         Biol         Akron           Smith, Henry Clay         Latin         Akron           Smith, Mina Elizabeth Ross         French         Akron           Solomon, Sidney Milton         Biol         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ         Akron           Waldsmith, Bernice Elizabeth         Hist         Akron           Weiler, John Earl         Chem         Barberton           Wheeler, Vaughn V.         Chem         Akron           Widick, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Wiler, Ralph
Short, Eleanor Justina         Math.         Akron           Shriber, Portia Arlene         Hist         Akron           Simmons, Catherine Whiton         Phil.         Akron           Smith, George Phillips         Biol         Akron           Smith, Henry Clay         Latin         Akron           Smith, Mina Elizabeth Ross         French         Akron           Solomon, Sidney Milton         Biol         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ         Akron           Waldsmith, Bernice Elizabeth         Hist         Akron           Weiler, John Earl         Chem         Barberton           Wheeler, Vaughn V.         Chem         Akron           Widick, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Willer, Ralph <td< td=""></td<>
Shriber, Portia Arlene         Hist.         Akron           Simmons, Catherine Whiton         Phil.         Akron           Smith, George Phillips         Biol.         Akron           Smith, Henry Clay         Latin         Akron           Smith, Mina Elizabeth Ross         French         Akron           Solomon, Sidney Milton         Biol.         Akron           Soper, Cleveland Conner         Pre-med.         Kent           Sowers, Thelma Kathryn         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Wheeler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Barberton           Wildek, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Winer, Ralph
Simmons, Catherine Whiton         Phil.         Akron           Smith, George Phillips         Biol.         Akron           Smith, Henry Clay         Latin         Akron           Smith, Mina Elizabeth Ross         French         Akron           Snider, Mark         English         Akron           Solomon, Sidney Milton         Biol.         Akron           Soper, Cleveland Conner         Pre-med.         Kent           Sowers, Thelma Kathryn         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Stebick, Harold Anthony         Pol. Sci.         Barberton           Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Barberton           Widick, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron
Smith, George Phillips         Biol.         Akron           Smith, Henry Clay         Latin         Akron           Smith, Mina Elizabeth Ross         French         Akron           Snider, Mark         English         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ         Akron           Waldsmith, Bernice Elizabeth         Hist         Akron           Weiler, John Earl         Chem         Barberton           Wheeler, Vaughn V.         Chem         Akron           Widick, Branko John         Pol. Sci.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem         Akron
Smith, Mina Elizabeth Ross         French         Akron           Snider, Mark         English         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Smith, Mina Elizabeth Ross         French         Akron           Snider, Mark         English         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Snider, Mark         English         Akron           Solomon, Sidney Milton         Biol         Akron           Soper, Cleveland Conner         Pre-med         Kent           Sowers, Thelma Kathryn         Math         Akron           Spade, Ralph Irvin         Math         Akron           Stpade, Ralph Irvin         Math         Akron           Steillman, Laura Jane         English         Akron           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Barberton           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Soper, Cleveland Conner         Pre-med.         Kent           Sowers, Thelma Kathryn         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Stebick, Harold Anthony         Pol. Sci.         Barberton           Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hiist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Soper, Cleveland Conner         Pre-med.         Kent           Sowers, Thelma Kathryn         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Stebick, Harold Anthony         Pol. Sci.         Barberton           Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hiist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Elisworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Sowers, Thelma Kathryn         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Spade, Ralph Irvin         Math.         Akron           Stebick, Harold Anthony         Pol. Sci.         Barberton           Stillman, Laura Jane         English         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Wildick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Spade, Ralph Irvin         Math.         Akron           Stebick, Harold Anthony         Pol. Sci.         Barberton           Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Stillman, Laura Jane         English         Akron           Stombaugh, Dean Rudolph         Pre-med.         Akron           Van der Hulse, Kenneth I.         Econ.         Akron           Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Waldsmith, Bernice Elizabeth         Hist.         Akron           Weiler, John Earl         Chem.         Barberton           Wheeler, Vaughn V.         Chem.         Akron           Widick, Branko John         Pol. Sci.         Akron           Williams, Terrence Ellsworth         Chem.         Akron           Winer, Ralph         Econ.         Akron
Widick, Branko John Pol. Sci. Akron Williams, Terrence Ellsworth Chem. Akron Winer, Ralph Econ. Akron
Widick, Branko John Pol. Sci. Akron Williams, Terrence Ellsworth Chem. Akron Winer, Ralph Econ. Akron
Winer, RalphAkron
Winer, RalphAkron
Winer, RalphAkron
Wood, Kenneth Irving
Zeis, Paul MPol. SciAkron
Men 71; Women 32; Total 103

## FRESHMAN CLASS

Allen, Estelle, JrArenson, Ardell Judith	Akron
Arenson, Ardell Judith	Akron
Atkinson, David Brown	Akron
Atkinson, David Brown Augsburger, Alice Margaret Bailey, William Albert	Akron
Bailey, William Albert	Akron
Baltes, Herman Charles	Akron
Berry, Lillian	Akron
Baltes, Herman Charles Berry, Lillian Bertsch, George Henry Blalock, James Carlton	Akron
Blalock, James Carlton	Akron
Bowman, Robert Ellsworth Bowman, Viva Mae Brenneman, Frank Butzer	Akron
Bowman, Viva Mae	Akron
Brenneman, Frank Butzer	Akron
Burd, Roy Addeson	Akron
Burson, Donald MaitlandHend	repburg
Bushnell, Margaret Ellen	Akron
Buticofer, Victor Herbert	Akron
Buzzelli, Arthur Albert	Akron
Cahill, Janice Louise	Akror
Chambers, Lenore	Canfield
Chassagne, Harold James	Akron
Chenoweth, Geraldine Faye	Akron
Chenoweth, Howard Tart	Akron
Collins, William Martin	Akron
Burson, Donald Mattland	Akron
Corwin, Harold DCourtney, Grace Gladys	AKTOI
Courtney, Grace Gladys	A kron
Cranmer, William Howard	A lease
Cranmer, William Howard Crawfis, Rosemary Crosby, Gulia Velma	A kron
Crum Charles	A kron
Crum, Charles	Akron
Davis Hazelbelle	Akron
Davis, Hazelbelle Devlin, Henry Wilbert	Akron
D'Ianni Iames Daniel	Akron
D'Ianni, James Daniel Dunford, Louise Anne	Akron
Dyer, Hohson Lafavette Dahlone	ga. Ga
Eden, Kenneth Homer	Akron
Egan, William John	Akron
Eshack, Marion Louise	Akron
Falor, William Henry	Akron
Fenneman, Harriett Madge	Akron
Ferguson, Gilbert Gray	Akron
Dunford, Louise Anne Dyer, Hobson Lafayette Dahlone Eden, Kenneth Homer Egan, William John Eshack, Marion Louise Falor, William Henry Fenneman, Harriett Madge Ferguson, Gilbert Gray Feudner, John Lloyd Franklin, Frederick FrancisUni Franklin, Frederick FrancisUni Frantz .Eli Martin	Akron
Fouse, James Austin	Akron
Franklin, Frederick FrancisUni	ontown
Frantz, Eli Martin	Akron
Gangler, Floyd Russell	Akron

$[\mathbf{MA}]$	N CLASS
on	Gates, Dorothy AlleneAkron
on	Gellatly, Anne
on	Gettins, Georgia Serephine Akron
on	Gilcher, Leslie DavidCanal Fulton
on	Gilleland Belya ElizabethAkron
on	Gilleland, Belva ElizabethAkron Gillette, Marjorie JaneAkron
on	Glass, OscarBarberton
on	Goldberg, HarveyAkron
on	Cough Wilfred Pohert Akron
o <b>n</b>	Gough, Wilfred RobertAkron Greenberger, HaroldWadsworth
on	Greenberger, Morton SAkron
on.	
on	Griffith, Bonar Evan Akron Gurin, Emanuel Akron Gutierrez, Fernando I. Akron Hahn, Charles Henry Fallen Timber, Pa.
τg	Gurin Emanuel Akron
on	Gutierrez Fernando I Akron
on	Hahn Charles Henry Fallen Timber Pa
on	Hall, John DaviesAkron
on	Hamann, Rhea MarieAkron
ld	Hanna Catherine Marie Rarberton
on	Hanna, Catherine MarieBarberton Harman, Martha McKnightAkron
on	Harnar Mildred Flirabeth Akron
on	Harnar, Mildred ElizabethAkron Harrington, Julia ChristineAkron
on.	Hartman Pobert
on	Hartman, Robert Akron Hatzis, Lulla Akron Herman, Norbert John Akron Hofer, John William Akron
o <b>n</b>	Harman Norbert John Akron
on	Hofer John William Akron
on	Hoffmaster, Ruth AdeleAkron
on	Hoover, Melba MaeAkron
on.	Horning Mostha Masgaset Akson
on	Hosfold William Howard Akron
on	Horning, Martha Margaret Akron Hosfield, William Howard Akron Hoskin, Ralph Gray Akron Huston, Fred Arland Akron
on -	Huston Fred Arland Akron
on	Tameson Coorge M Akron
on.	Jameson, George MAkron Jeter, Almonta LothairAkron
on	Tohns Cornelius George Akron
a.	Johns, Cornelius George Akron Jones, Marjorie Isabelle Akron Joseph, Joe A. Youngstown Katz, Evelyn Akron
on	Toogh Too A Voungetown
on.	Kata Evelun
on	Kazan, MarvinAkron
on	Kidder, John HowardAkron
on	Kindig Harold Clyde Akron
on	Kirk Winston Hunter Akron
on	Vitcelman Betty May
on	Kindig, Harold Clyde Akron Kirk, Winston Hunter Akron Kitselman, Betty May Akron Kreighbaum, Maynard Stanley Akron
vn	Kyle, Stanley EmersonAkron
on	Lee, Margaret LucilleAkron
on	Leibole, Vivian MadgeAkron
	Toronto, vivida intege minimum trion

Leibovitz Armond Leo	Akron
Long Walter C	Vadeworth
MaDamald Vinginia	Alrean
McDonaid, Virginia	Al-com
McDonnell, Frank Harold	AKION
McDonough, Mary E	Akron
McDougald, Aldiva Edwards	Akron
Maloney, Eugene Thomas	Akron
Mancovitz, Samuel Morris	Akron
Marshall, Chester Ralph	Akron
Martucci Lebia	Akron
Mason Wellington William	Akron
Marnard Norman Henry	Akron
Leibovitz, Armond Leo Long, Walter C. McDonald, Virginia McDonnell, Frank Harold McDonough, Mary E. McDougald, Aldiva Edwards Maloney, Eugene Thomas Mancovitz, Samuel Morris Marshall, Chester Ralph Martucci, Lebia Mason, Wellington William Maynard, Norman Henry Metzger, Mary Elizabeth Miller, Sam Constantine Miller, Virginia May	Alegon
Metzger, Mary Elizabeth	Alrean
Miller, Sam Constantine	Akron
Miller, Virginia May	Akron
Mills, Robert Edward	Akron
Miller, Sam Constantine Miller, Virginia May Mills, Robert Edward Montgomery, Virginia Statler Morris, Gerald Marcellus	Piqua
Morris, Gerald Marcellus	Akron
Moyer, Maurice Lloyd	Akron
Newton, Mariorie Carolyn	Akron
Osmun, Marguerite Campbell	Akron
Palmer, Clare Louise	Akron
Polmor More Ethal	Akron
Potton Marian	Akron
Disting Destina Elizabeth	Alrean
Pitkin, Pauline Elizabeth	Aless
Powelson, Pauline Grace	A Krou
Pratt, Evelyn Marie	Akron
Proehl, Harold Clayton	Barberton
Rabe, Ruth Anne	Akron
Ream, Charles Frederick	Akron
Revnolds, James LeRoy	Akron
Pitkin, Pauline Elizabeth Powelson, Pauline Grace Pratt, Evelyn Marie Proehl, Harold Clayton Rabe, Ruth Anne Ream, Charles Frederick Reynolds, James LeRoy Rhoads, Margaret Louise Richards, Romola Ruth Rifkin, Helen Rosenfeld, Louis Schulman Ruth	Akron
Richards, Romola Ruth	Akron
Rifkin Helen	Akron
Posenfold Louis	Akron
Cabulman Duth	Akron
Schuman, Ruth	Akron
Schwartz, Albert Frederick	Almon
Schulman, Ruth Schwartz, Albert Frederick Secttor, Julian Victor Seeger, Howard John Shepard, Bruce Alfred	A 1
Seeger, Howard John	Akron
Shepard, Bruce Alfred	-Columbus
Sherman, Nelson Robert Silvester, Ruth Elinor	Akron
Silvester, Ruth Elinor	Akro <b>n</b>
•	

Simpson, EllenAkron
Smith, Jane EAkron
Sonnhalter Tohn Trook Rarberton
Sonnhalter, John JacobBarberton Sowers, Ruth MildredAkron Sparhawk, Winnifred EmmaAkron
Sowers, Kuth MildredAkron
Sparnawk, Winnifred EmmaAkron
Spuller, Mildred ElizabethAkron
Stahl, Richard HolmesAkron
Staley, Robert ArthurAkron
Stambaugh, James DouglasAkron
Staley, Robert Arthur
Starbird, Norman HoytLodi
Starling Comiding A Alcon
Starkey, Geraldine A. Akron Stevens, Haywood Weston Akron Stuart, Mary Elizabeth Akron
Stevens, flaywood westonAkton
Stuart, Mary ElizabethAkron
Suppes, Dorothy ClarissaAkron
Swain, ElsieAkron
Swinehart, Josephine LouiseAkron
Swain, Elsie Akron Swinchart, Josephine Louise Akron Switzer, Ruth Irene Cuyahoga Falls Syracopoulos, Nick C. Akron
Syracopoulos, Nick CAkron
Tausch, Harry WilliamAkron
Thomann, Michael WilliamAkron
Thomann, Michael WilliamAkron Thompson, Doris AnneAkron
Trenner, Zelda Akron Tucker, Charles Stanley Akron
Tucker Charles Stanley Akron
Tifford Townson Too
Van Dana Wiel Danie Alega
Ufford, Laurence Lee
Van Kirk, Samuel CareyAkron
Vest, George RobertAkron
Victor, William HenryAkron
Waldron, Patricia
Walker, Charles EmilAkron
Walker, Donald HenryAkron
Walker, Howard RayAkron
Wall, John DanielAkron
Wall, John Daniel Akron Warner, Wilbert Andrew Louisville Welch, Beatrice Virginia Akron
Welch Restrice Virginia Akron
Wheeler, Helen ToraneAkron
Wood, Arthur DakesAkron
7-sich I species Alege
Zarich, Leposava Akron Zemlansky, Mildred Akron
Zemiansky, MilareaAkron
Zintel, Harold AlbertAkron Men 102; Women 75; Total 177
Men 102: Women 75: Total 177

## IRREGULAR STUDENTS

Akron
Akron
Total 18

## SPECIAL STUDENTS

7-3 Bergin, Edmund Robert	Akron
Bronson, Victoria	Akron
Foltz, Bessie Mildred Frierson, Eugene Clomer	Akron
24. 20McConnaughy, Thomas B	Akron

Mizel, Ben 28.29	-Akron
Morgan, James Edwin	29-3 Akron
Smith, Robert Melville Sykes, Harry Allen	3529 Akron
Ward, Vernon M Wortley, Marjorie	5 D - 3 1 Akron
Men 10; V	Vomen 3; Total 13

# COLLEGE OF ENGINEERING AND COMMERCE DEPARTMENT OF ENGINEERING

C. E.—Civil Engineering
E. E.—Electrical Engineering
I. E.—Industrial Engineering
M. E.—Mechanical Engineering
Engr.—Course not elected

#### SENIOR CLASS

Auten, Delbert E	ME	Akron
Badonsky, Paul	CF	Akron
Brennon, Louis Joseph	E E	Akron
Buckley, Alan Gillan	ME	Akron
Buckley John Harrison	M F	Akton
Buckley, John Harrison Buffington, Gerald Edward	FF	Vicco Kentucky
Chenot, John R.	FF	A kron
Christoff, Elias Constantin	F F	Aleon
Dickinson, Neil Kenneth	F F	Madina
Durant Arthur H	M F	A keen
Durant, Arthur H. Hanna, Elmer Elias Hunt, Allison Orvis	F F	Alron
Tunt Allian Omia	M F	Wooster
Koehler, Henry		A lease
Kraft, Theodore Andrew	E. E	Alten
Tindhalm Talman Tahm		Dozast
Lindholm, Jalmer John Manson, Finley James Medvedeff, Nicholas Sergius		Al-can
Manson, Finley James		Al
Moore, James Russell  Nye, Benjamin Elmer	C F	Vant
Nya Daniamin Flanar	M F	Sharon Da
Ransom, Jay William	M. E	Devan
Dishardson Jak	~XI. E	Al-an
Richardson, John		Andone
Sawdy, Gordon F	M. E	Andover
Scharenberg, Elmer Milton Schroeder, Ben G. Schroeder, Harold Henry Schutz, Emil		Everett
Schroeder, Ben G	1. E	To all a della Tadiana
Schroeder, Harold Henry	E. E	Freelandville, Indiana
Schutz, Emil	E. E	Akron
Seifried, Anton George	E. E	Akron
Shively, Harmon G	E. E	Akron
Snyder, Millard Sylvester		Akron
Springston, Clifford Dennis Stafford, Francis William	E. E	Cuyahoga Falls
Stafford, Francis William	C. E	Akron
Suloff, Karl Frank	М. Е	Akron
Symns, Samuel Young	Ç. <u>E</u>	Peterstown, W. Va.
Walker, Charles Edward	M. E	Cleveland
Walters, Ellsworth Clement Woodrow, Ernest John	M. E	Talimadge
Woodrow, Ernest John	С. Е	Washington, D. C.
		Total, 36 Men
JU	NIOR CLASS	
Arnold, George William	T 73	Duffele New Year
Arnold, George William		Bunalo, New York
Bair, Lawrence Vernon	E- E	Medina
Bechtol, Paul Shreckengast Christman, Kermit Orison Davis, Robert Martin DeYoung, Russell	<del>-</del> - <del>-</del>	Bellwood, Pa.
Christman, Kermit Orison	<u></u> <u>E</u>	Cuyanoga rails
Davis, Robert Martin		Akron
De Young, Russell	······································	Akron
Dice, William Merrill Falls, Eugene Kelty Gerber, Russell Arthur	М. Е	Akron
Falls, Eugene Kelty	M. E	Kent
Germann, William Joseph	C. E	Atron
Hunn, William Robert	I. E	Class. F Min
Tanalisi Tanah Paril		Sieepy Eye, Minn.
Ippoliti, Joseph Emil Johnson, Wallace Harold Kochel, Robert Kenneth	V. E	Akron
Johnson, Wallace Harold	W. E	Akron
Krause, Floyd Carl	M. E	
Leibowitz, Sol Leshinsky, Isadore		Akron
	1, E,	

Markalana William Bahantaan	CF	Common N C
Major Robert Lee	M. F.	Akron
Major, Thomas Elwood	M. E	Peninsula
Marcinkoski, Frank	E. E	Akron
Miletti, Louis Fred	E. E	Akron
Moody, Ralph James	M. E	Akron
Murphy, George Patrick		Akron
Ream Frank Edwin	M F.	Akron
Salner, Eugene Victor	E. E.	Akron
Schubert, John Arnold	M. E	Akron
Schwarzmueller, Harry	<u>C</u> . <u>E</u>	Buffalo, N. Y.
Shively, Russell Dewitt	E. E	Akron
Smeal, Maldine Wayne		T itchfold
Watson John Graham	M F	Akron
Woodward, Foster R.	M. E	Kent
MacFadyen, William Robertson Major, Robert Lee Major, Thomas Elwood Marcinkoski, Frank Miletti, Louis Fred Moody, Ralph James Murphy, George Patrick Poole, Donald S. Ream, Frank Edwin Salner, Eugene Victor Schubert, John Arnold Schwarzmueller, Harry Shively, Russell Dewitt Smeal, Maldine Wayne Stine, William Virgil Watson, John Graham Woodward, Foster R.  PRE- Allard, Carroll Preston Andrus, Jack LeRoy Bachtel, Kenneth Edward Boyd, William John Bunts, Louis Edward Carillon, Frank R. Chittenden, Walter William Conger, Arthur Boylan DeLano, Chester Camp Fink, Herbert Henry Frampton, Theodore Rowles Fuller, Max Parkerson Galloway, Francis LaVerne Gangl, Eugene Grosjean, Ralph Higgins, Bernard James Higgs, Harold Thomas Kamp, Virgil Richard Long, Maurice Edwin Long, Maurice Edwin Long, Maurice Edwin Lorenz, Walter Arthur McCullough, Harry Alexander McMichael, Bryce Delos Martz, Ronald Berdett Preusse, Robert Ernest Ouinn, Gerald Summers Renninger, Terry Donald Resseger, Bernard Peter Ries, Robert Albert Roesch, Harold Adam Rokus, Frank George Sagadencky, Samuel Thomas Salyerds, Ronald Clifford Schapiro, Norbert Jacob Schmittigen, Williard John Serfass, Charles Richard Shelestovich, Leo Shook, Donald Hartman Spade, Russell E. Spicer, Alvin Whitelaw Surbey, Charles Wade Suttkus, Henry Syracopoulos, Philip C. Thomas, Harold Glenn Waddell, Robert Grove Wansky, Morris Harold Wansky, Simon Wykoff, Ralph Charles		Total, 34 Men
PRE-	JUNIOR CLASS	
Allard, Carroll Preston	C. E	Sharon Center
Bachtel Kenneth Edward	M. E	Akron
Boyd William John	E F	Cuvahoga Falls
Bunts, Louis Edward	M. E.	Akron
Carillon, Frank R.	<u>E</u> . E	Apple Creek
Chittenden, Walter William	E. E	Akron
Conger, Arthur Boylan	M. E	Peninsula
Fink Harbart Hanry	C F	Akron
Frampton, Theodore Rowles	M. E.	Akron
Fuller, Max Parkerson	E. E.	Hudson
Galloway, Francis LaVerne	M. E	Peninsula
Gangl, Eugene	<u>E</u> . <u>E</u>	Akron
Grosjean, Ralph	E. E	Orrville
Higgins, Bernard James	C F	A bron
Kamp Virgil Richard	M. F.	Akron
Long, Maurice Edwin	M. E	Akron
Lorenz, Walter Arthur	E. E.	Mantua
McCullough, Harry Alexander	M. E	Akron
McMichael, Bryce Delos	M. E	Meadville, Pa.
Provise Pohert Fraest	M F	Akron
Ouinn. Gerald Summers	M. E	Akron
Renninger, Terry Donald	I. Ē	Uniontown
Resseger, Bernard Peter	<u>I</u> . <u>E</u>	Akron
Ries, Robert Albert	<u>E</u> , <u>E</u>	Akron
Roesch, Harold Adam	E. E	Sandusky
Sagadancky Samuel Thomas	C E	Akron
Salverds, Ronald Clifford	E. E.	Akron
Schapiro, Norbert Jacob	C. E	Wadsworth
Schmittgen, Willard John	I. E	Elyria
Serfass, Charles Richard	C. E	Akron
Shelestovich, Leo	M. E	Akron
Snade Russell E	C F	Akron
Spicer, Alvin Whitelaw	M. E	Akron
Surbey, Charles Wade	<u>C</u> . <u>E</u>	Akron
Suttkus, Henry	M. E	Orrville
Syracopoulos, Philip C.	E. E	Akron
Waddell Robert Grove	I. E.	Akron
Wansky, Morris Harold	M. E	Akron
Wansky, Simon	I. E	Akron
Watkins, Henry Fred	М. Е	
Weltzien, Victor	M. E	Wadsworth
Werner, Howard Louis	М. Е	Lorain
Wykoff Ralph Charles	Ĭ. Ē.	Akton
areaps CHBIACO monocomponico		Total, 51 Men
Allen, John William Beck, Howard George Britsch, Donald Theodore Buchtel, Kenneth Albert	OMORE CLASS	
Allen, John William	Ç. <u>E</u>	Akron
Beck, Howard George	Ç. E	Akron
Buchtel Kenneth Albert	M E	A kron
Ducintei, Kenneth Albeit		ARIOII

Campbell, William Lisle Chesnut, Norman O'Neal Christman, Francis Sherman Clark, Maurice Davis Coorsh, Daniel Davidson, Wilbur George DuPratt, Norman Edmond Fesler, James Clifford Gerin, Harry Gilletly, Maynard William Graham, William Ralph Hagans, Carl Hall, Clifford John Hartz, Raymond Joseph Jones, James Edward Katz, Albert Keller, Russel Jacob Legar, Frank T. Lovering, Joseph Gerald Luyster, Harry Oliver MacFarland, Robert Malcolm Mavropolos, Arthur Earnest Metzger, Alfred Henry Miller, Lemuel Ellison Moeller, Howard Louis Myers, George John Nixon, Boris Chester Patterson, Robert Elder Pero, George F. Perry, Gordon Wilbur Peterson, Walter K. Renninger, Ronald Cyrus Reynolds, Wade Whipple Ripley, Glenn Spartan Ritzert, James Francis Roos, Carl L. Ruch, John Earl Safi, Edward Salber, Joseph Patrick Sheffield, Vernon Lee Simon, Victor Howard Slider, Robert A. Sparks, Paul Emerson Strahl, Frank Hazlett Symns, Clarence, Jr. Triplett, Dean Franklin Trombley, Russell Cleveland Unser, Clifford Waldo Viers, Glenn Raymond Waldman, Jack Louis Yarian, Harold David Zabel, Albert	LE	Reilliant
Chesnut Norman O'Neal	C. E	Akron
Christman, Francis Sherman	Č. E	Akron
Clark, Maurice Davis	C. E	Akron
Coorsh, Daniel	<u>E</u> . E	Akron
Davidson, Wilbur George	<u>I</u> . <u>E</u>	Akron
DuPratt, Norman Edmond	М. Е	Akron
Fesler, James Clifford	E. E	Danville
Cillatin Marrard William	E E	Curchogo Falla
Graham William Palah	F F	Virginia Beach Va
Hagans Carl	EE	Akron
Hall, Clifford John	M. E	Akron
Hartz, Raymond Joseph	C. E	Akron
Jones, James Edward	E. E	Massillon
Katz, Albert	I. E	Akron
Keller, Russel Jacob	M. E	Akron
Legar, Frank T.		Parrish, Ala.
Luveter Harry Oliver	T F	New Philadelphia
MacFarland, Robert Malcolm	C. E	Cleveland
Mayropolos, Arthur Earnest	M. E	Akron
Metzger, Alfred Henry	M. E	Akron
Miller, Lemuel Ellison	C. E	Akron
Moeller, Howard Louis	М. Е	Akron
Myers, George John	C. <b>E</b>	Akron
Nixon, Boris Chester	Е	Akron
Patterson, Robert Elder	I. E	Akron
Peres, George F	M. E	Sumeid
Peterson Walter K	C F	Akron
Renninger Ronald Cyrus	Ĭ. Ē	Uniontown
Reynolds, Wade Whipple	C. E	Elyria
Ripley, Glenn Spartan	C. E	Canal Fulton
Ritzert, James Francis	E. E	Akron
Roos, Carl L.	<u>M</u> . <u>E</u>	Sharon, Pa,
Ruch, John Earl	E. Ē	Barberton
San, Edward		Akron
Sheffold Vernor Lee	M. L	Parenna
Simon Victor Howard	M F	Orrvilla
Slider, Robert A.	M. E.	Mogadore
Sparks, Paul Emerson	C. E	Akron
Strahl, Frank Hazlett	M. E.	Ravenna
Symns, Clarence, Jr.	C. E	Peterstown, W. Va.
Triplett, Dean Franklin	M. E	Akron
Trombley, Russell Cleveland	E. E	Akron
Viere Clara Paymond	M. E	A bron
Waldman Jack Louis	T F	Akron
Yarian, Harold David	E. E.	Rootstown
Zabel, Albert	I. E	Cleveland
		Total, 56 Men
FRE	SHMAN CLASS	
Borbon Coonge Tudoon	TP TP	Williamstern Mass
Parkwill Harold Vester	M F	A kron
		ALIVII
Bozick Max	T F.	Akron
Bozick, MaxBricker. Carl Edward	I. E	Akron Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie	I. E	Akron Akron Brockport, N. Y.
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William	I. E. Engr. M. E. Engr	Akron Brockport, N. Y. Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe	I. E. Engr. M. E. Engr. Engr.	Akron Akron Brockport, N. Y. Akron Akron Akron Akron Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert	I. E	Akron Akron Brockport, N. Y. Akron Akron Barberton
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack	I. E. Engr. M. E. Engr. E. E. M. E.	Akron   Akron   Akron   Akron   Akron   Akron   Barberton   Akron   Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle	I, E Engr. M, E Engr. E, E M, E E, E Engr. E, E E, E	Akron Akron Brockport, N. Y. Akron Akron Barberton Akron Akron Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts Robert Lames	I E Engr. M. E Engr. E. E. M. E E. E. C. E. E. E E. E Engr. E. E Engr. E. E Engr. E. E Engr.	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward	I, E Engr. M, E Engr. E, E M, E E, E Engr. E, E C, E	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John	I, E. Engr. M. E. Engr. E. E. M. E. E. E. E. E. E. E. E. C. E. E. M. E. E. E. M. E.	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving	I, E Engr. M, E Engr. E, E, E M, E E, E Engr. E, E E, E Engr. E, E E,	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick	I, E Engr. M, E Engr. E. E M, E E. E E	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick Fricker, Frank Fred	I, E. Engr. M, E. Engr. E. E. M. E. E. E. E. E. C. E. M. E. C. E.	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick Fricker, Frank Fred Gantz, Donald Kohr	I, E Engr M, E Engr E, E M, E E, E Engr E, E E, E Engr E, E E E, E E, E E, E E M, E E M, E E E M, E E E E E E E E E E E E E E E E E E E	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick Fricker, Frank Fred Gantz, Donald Kohr Gill, John Augustus	I, E Engr. M, E Engr. E. E M, E E. E Engr. E. E E. E Engr. E. E E. E C. E M, E M, E E. E C. E M, E E. E E	Akron
Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick Fricker, Frank Fred Gantz, Donald Kohr Gill, John Augustus Goddard, Frank Atwood Green Carl Cathon	I, E. Engr. M, E. Engr. E. C. E. M. E. M. E. M. E. C. E. M. E. M. E. M. E. C. E. M. E. C. E. M. E.	Akron
Barber, George Judson Barkwill, Harold Kester Bozick, Max Bricker, Carl Edward Browne, Clyde Archie Brumley, Joseph William Buxton, J. Radcliffe Caldwell, George Hessert Carlton, Jack Christman, William Rawle Coorsh, Harry Couts, Robert James Dannemiller, William Edward Falk, Franklin John Felver, Richard Irving Flanigan, Gerald Patrick Fricker, Frank Fred Gantz, Donald Kohr Gill, John Augustus Goddard, Frank Atwood Green, Carl Cathon Griffiths, Dave Walter	I, E Engr M, E Engr E, E M, E Engr E, E E Engr E, E E E E E E E E E E E E E E E E E E	Akron

Corner Dishard	<b>P</b> D	Almon
Grogan, Richard Gross, Arthur George Gutsow, Alex Haley, Charles Dayton Hammett, Frank Webster Hamontree, Raymond Woodrow Henderson, Ned A. Heyburn, Richard David Jaques, Robert Blair Jauchem, Gilbert Harry Jordan, Jack Russell Kamin, Nathan Henry Kautz, John Howard Kerber, Henry John Kovach, Ivan Jim Kruse, Carl Edward Kuhns, William Rush Lange, Melvin Sylvanus Laubach, Donald Edward Leach, Norris Henry Leavenworth, William Clifton Ley, Harry E. Ley, William Littrick, Harold Maxwell Livingston, James Austin Loveridge, James McMasters, Melvin Thomas Matti, Glenn Dale Medis, Daniel J. Metzger, Henry George Mitchell, William Mark Mondl, Thomas James Moore, John Richard Munson, Robert Alvin Murphy, John Cornelius	Enor	Akron
Gutsow. Alex	M. E	Akron
Haley, Charles Dayton	C. E	Akron
Hammett, Frank Webster	Ç. <u>E</u>	Barberton
Hamontree, Raymond Woodrow	M. E	Alliance
Henderson, Ned A	Engr	South Bend, Pa.
Tagues Pohert Rigir	Engr	Akron
Jauchem Gilbert Harry	Engr	Akron
Jordan, Jack Russell	Engr	Akron
Kamin, Nathan Henry	<u>E</u> . <u>E</u>	Akron
Kautz, John Howard	C. <u>E</u>	Akron
Kerber, Henry John	Ç. <u>E</u>	Sandusky
Kovacn, Ivan Jim	E. E	Alren
Kuhne William Rush	Enor	New Rethlehem, Pa.
Lange Melvin Sylvanus	E. E.	Akron
Laubach, Donald Edward	E. E.	Akron
Leach, Norris Henry	М. Е	Litchfield
Leavenworth, William Clifton	M. E	Akron
Ley, Harry E	M. E	Alron
Littrick Harold Marwell	Engr.	Akron
Livingston, James Austin	Engr.	Akron
Loveridge, James	E. E	Cuyahoga Falls
McCormick, Edward Russell	E. E	Akron
McMasters, Melvin Thomas	Engr	Akron
Matti, Glenn Dale	М. Е	Akron
Medis, Daniel J	Engr	Alron
Metzger, Henry George		Akron
Mondi Thomas Tames	E. E.	Akron
Moore, John Richard	C. E	Akron
More, John Richard Munson, Robert Alvin Murphy, John Cornelius Oldham, Vern Lawrence Olson, Irving J. Oplinger, Fred Koch Ostroff, Jacob Rawls, Ben Henry	Engr	Akron
Murphy, John Cornelius	I. E	New York, N. Y.
Oldham, Vern Lawrence	M. E	Almon
Onlinger Fred Koch	C E	Abron
Ostroff Jacoh	Engr	Akron
Rawls, Ben Henry	Engr	Akron
Robinson, Glen Clifford	Engr	Akron
Roundy, Elmer Olin	M. E	Atwater
Roundy, Norman Olin	M, E	Akron
Rush, Foster Milton		Alliance
Schienan Henry Diem	M. E	Akron
Schultz, Max Elmer	I. E	Akron
Simmons, George Hezzleton	E. E	Akron
Snyder, Stanley Wilson	М. Е	Barberton
Ostron, Jacob Rawis, Ben Henry Robinson, Glen Clifford Roundy, Elmer Olin Roundy, Norman Olin Russh, Foster Milton Saus, Frank John Schiepan, Henry Diem Schultz, Max Elmer Simmons, George Hezzleton Snyder, Stanley Wilson Soper, Gilbert Vernon Steinmetz, Harold Clement Stratton, Edgar H. Tarbox, Frederick Chalmers Tittle, Everet Ray Wagner, Paul George Walker, Alexander George Weiss, Julius Werner, Glenn Charles	I, E	Kent
Stratton Edgar H	M. F	Curahora Falla
Tarbox Frederick Chalmers	C E	Akron
Tittle. Everet Ray	I. E	Fairlawn
Wagner, Paul George	М. Е	Akron
Walker, Alexander George	<u>I</u> . <u>E</u>	Cuyahoga Falls
Weiss, Julius	E, E,	Cleveland
Werner, Glenn Charles	Engr	Kane, Pa.
Willer Francis Fibin	E F	Akron
Willey Kenneth Lewis	E. E.	Akron
Wilson, James Oswald	E. E.	Akron
Wormald, Willis Raymond	M. E	Akron
Wurzbacher, Ford George	Engr	Peninsula
Yenicky, Peter John		Akron
Weiss, Julius Werner, Glenn Charles Wetzel, Robert Henry Willey, Francis Elbin Willey, Kenneth Lewis Wilson, James Oswald Wormald, Willis Raymond Wurzbacher, Ford George Yenicky, Peter John Yount, Earl A.	E, E,	Total 80 Man
		Total, by Men

### SPECIAL STUDENTS

Huffman, Edward Barrington	E,	E		Elyria
Sweet, Leo M	E.	E	Bassarabia,	Romania

## COMMERCE

COMMERCE			
GRADUATE Tinklepaugh, Ward L. B. S. in Bus. Adm., Syracuse University.	STUDENT		
B. S. in Bus. Adm., Syracuse University.			
SENIOR	CLASS		
Adams, James F. Akron Black, Robert Elmer Akron Booth, Richard Francis, Jr. Akron Demko, Michael Paul Akron Ensign, Hadley N. Akron Gordon, Jacob Akron Harding, Clarence G. Akron Hunter, Harold Robert Cuyahoga Falls Kodish, Louis Akron McCallops, David Albert Akron Meadows, Rodger McMorgan Akron	Meadows, James Rufus Akron Myers, Donald H. Akron Ostroff, Samuel Akron Porter, John Edwin Akron Rogers, Cecil Albert Akron Savage, Harold William Akron Schlemmer, Robert Meade Akron Suitt, Samuel R. Akron Turina, Irvin Walter Akron Walkup, William Edmund Akron Total, 21 Men		
Black Robert Elmer Akron	Myers. Donald HAkron		
Booth, Richard Francis, JrAkron	Ostroff, SamuelAkron		
Demko, Michael PaulAkron	Porter, John EdwinAkron		
Ensign, Hadley NAkron	Rogers, Cecil AlbertAkron		
Gordon, JacobAkron	Savage, Harold WilliamAkron		
Hunter Harold Pohert Cuyahora Falls	Schlemmer, Robert MeadeAkton		
Kodish Louis Akron	Turina Irvin Walter Akron		
McCallops, David AlbertAkron	Walkup, William EdmundAkron		
Meadows, Rodger McMorganAkron	Total, 21 Men		
TUNIOR	CLASS		
Frantz, Harry Wilbur Akron Gharky, Irving S. Akron Hamlin, Robert Evans Akron Hazlett, Harry Richard Akron Hennessy, Harold Francis Akron Holcomb, Herbert Leslie Akron Jones, Paul J. Akron LoCascio, Joseph Brooklyn, N. Y. Moore, John Weil Medina	Nelson, Richard Thomas         Akron           Ott, Albert M.         Kent           Roberts, Kenneth         Akron           Secrest, Burt Theodore         Akron           Smelser, Eugene Richard         Akron           Weber, Fred Charles         Akron           Witwer, Frank Cyrus         Akron           Zettle, Glenn Franklin         Akron           Total, 17 Men		
Charky Irving S Akron	Ott Albert M Kent		
Hamlin, Robert EvansAkron	Roberts. KennethAkron		
Hazlett, Harry RichardAkron	Secrest, Burt TheodoreAkron		
Hennessy, Harold FrancisAkron	Smelser, Eugene RichardAkron		
Holcomb, Herbert LeslieAkron	Weber, Fred CharlesAkron		
Jones, Paul JAkron	Witwer, Frank CyrusAkron		
Moore John Weil Brooklyn, N. Y.	Zettle, Glenn FranklinAkron		
SOPHOMO	RE CLASS		
Abood, AlbertAkron	Powell Frederick W Abron		
Alexander Jay Park Conley	Rolph Harold WilliamAkron		
Brown, AdolphAkron	Roth, Earl AlbertAkron		
Carrier, James HarveyAkron	Schuster, RobertAkron		
Clare, W. JamesAkron	Shaffer, Emmert Samuel		
Flaugher, Frank VernolAkron	Hollidaysburg, Pa.		
Gilbride, Edward JAkron	Speck, Leroy AlfredAkron		
Harry, WinchesterAkron	Stelzer, Frederick Carl		
Horn Frederick Franct Akron	Strickler Paul Wood Cuvahoga Falls		
Hudson, Harold Lawrence	Stull. Richard ElmerAkron		
Brooklyn, N. Y.	Susko, GregoryAkron		
Killian, Gerald MichaelAkron	Venner, Harry EugeneAkron		
Kistler, Eugene WaintAkron	Warden, Ralph ParkAkron		
MacCanagas Tamas Pahart	Woodword Vant W		
Mendelson Morris Akron	Vasosky George James Wallington N. I.		
Abood, Albert Akron Aidmon, Max Akron Alexander, Jay Park Copley Brown, Adolph Akron Carrier, James Harvey Akron Clare, W. James Akron Flaugher, Frank Vernol Akron Gilbride, Edward J. Akron Harry, Winchester Akron Hartz, Gilbert A. Akron Hudson, Harold Lawrence Brooklyn, N. Y. Killian, Gerald Michael Akron Kistler, Eugene Waint Akron MacGregor, James Robert Akron MacGregor, James Robert Akron Mendelson, Morris	Plumer, Robert Norman Akron Powell, Frederick W. Akron Rolph, Harold William Akron Roth, Earl Albert Akron Schuster, Robert Akron Schuster, Robert Akron Schuster, Robert Akron Schuster, Robert Akron Schuster, Emmert Samuel Hollidaysburg, Pa. Speck, Leroy Alfred Akron Stelzer, Frederick Carl Strickler, Paul Wood Cuyahoga Falls Stull, Richard Elmer Akron Susko, Gregory Akron Venner, Harry Eugene Akron Worden, Ralph Park Akron Worden, Ralph Park Akron Worden, Ralph Park Akron Woodward, Kent W. Akron Yasosky, George James Wallington, N. J. Total, 33 Men		
Adams, William E. Uniontown Amspoker, Dwight Ellston Akron Anthony, Arthur H. Massillon Appelhans, Iris Dorothy Cuyahoga Falls Appleby, Robert George Akron Alec, Paul Charles Akron Black, James Forrest Akron Brady, George James Akron Bridenthal, Dale Wesley Greensburg Brommelhaus, Vincent Henry Akron Cooper, John Griffin Akron Danesis, George Helie Pireaus, Greece Descutner, Nesbit Burns Akron Grady, John Edward Akron Grady, Howard Adrian Akron Harig, John August Akron Jackson, George Henry Akron Jessop, Charles Augustus Akron Johnson, Vincent Akron Kannel, Harold Joseph Akron Korman, George Akron Korman, George Akron	Lenk, Martin George		
Adams, William EUniontown	Lenk, Martin GeorgeFairchance, Pa.		
Amspoker, Dwight EllstonAkron	Levin, Harold ArthurAkron		
Appellane Irie Dorothy Cuyahoga Falle	Machesia William Courtney Akron		
Appleby, Robert GeorgeAkron	Mahan, Fulton S. DAkron		
Auler, Paul CharlesAkron	Miller, Edwin ElwoodAkron		
Black, James ForrestAkron	Mills, Howard EugeneMogadore		
Brady, George JamesAkron	Moore, Floyd AllenLafayette, Indiana		
Bridenthal, Dale WesleyGreensburg	Mougey, Mary CatherineSterling		
Cooper John Criffs Akron	Nigh Tack D Akron		
Danesis George Helie Pireaus Greece	O'Neil Charles Herbert Akron		
Descutner, Nesbit BurnsAkron	Oribel. Michael PaulAkron		
Finney, Mary CarolynAkron	Ott, Howard CharlesAkron		
Grady, John EdwardAkron	Rockwell, John ClarkAkron		
Gray, Howard AdrianAkron	Root, Richard CarlAkron		
Harig, John AugustAkron	Rosenzweig, UscarAkron		
Jackson, George HenryAkron	Sankey Fugene William Akron		
Iohnson, Vincent Akron	Sheard, Richard DavidAkron		
Kannel, Harold JosephAkron	Sloat, Ralph MonroeAkron		
Korman, GeorgeAkron	Smith, Ralph EdwardAkron		
Kosch, Kermit LawsonAkron	Starkweather, Lucile CoyAkron		

Stehle, John Louis Akron Stoffer, John Franklin Akron Stowe, Anthony Huntly Akron Titmas, Albert Akron Triplett, Bruce R. Akron  SPECIAL S	Unverzagt, George Philip Akron Voltz, J. Paul Canton Wetzel, Paul Bash Akron Whitson, Robert Neil Orrville Wile, Carl Luther Akron Men 52; Women 4; Total 56		
Aberth. George HCopley	Buckmaster, Robert NorwinAkron		
Aberth, George HCopley Bird, Thomas WhittierAkron	Gruccio, JosephAkron		
IRREGULAR	STUDENTS		
Palmer, William EdwardAkron			
SECRETARIA	AL SCIENCE		
SENIOR	CLASS		
Armstrong, Catherine JaneAkron Orr, GraceS. Attleboro, Mass.	Schlemmer, Josephine EAkron Starner, Geraldine LeonaAkron Total, 4 Women		
junior	CLASS		
• · · · · · · · · · · · · · · · · ·			
Danford, Dorothy MAkron Flint, Anna MaeWest Webster, N. Y. Funk, CleoAkron	Gangl, Ethel Helen Akron Myers, Wayne Leone Akron Stall, Laura Elaine Akron		
ruia, oleo	Men 1; Women 5; Total 6		
66PY0160	DD 07 400		
SOPHOMO			
Ayer, Annetta LouiseTallmadge Bishop, Lois EleanorAkron	Keiser, Etha Mae		
Bishop, Lois Eleanor Akron Boyer, Mary Virginia Portland, Oregon Deacon, Dawne Elsie Akron Flint, Bernice Geraldine West Webster, New York Heller, Marion Arland Akron Hine, Hazel Ecker Akron	Kopf, Margaret ErnestineAkron		
Flint, Bernice Geraldine	Leavenworth, Helen Porter Akron Manthey, Mathilde Catherine Akron Schaeffer, Elizabeth Akron		
Heller, Marion ArlandAkron	Smith, Helen MaeAkron		
Hine, Hazel EckerAkron Hoopes, Lois EleanorAkron	Source Gertrude Akron		
Jenkins, Margaret Ellen	Stedman, Marion Edith		
New Philadelphia	Total, 19 Women		
FRESHMAN CLASS			
Ault, Kathryn DouglasAkron	Houghton, Betty MerriamAkron Mohler, Pearl HildaKillbuck		
Billman, Dorothy LeilaAkron Black, Alice EvelynAkron	Myers. Virginia AnnAkron		
Cohen, Sayde Akron Crafts, William Henry Mantua Darulis, Ardella Marie Akron	Prentice, Faye LouiseAkron		
Darulis, Ardella MarieAkron	Purviance, Helen Elizabeth Smithfield Sonnhalter, Mary Margaret Barberton Stewart, Marjorie Irene Akron Stokich, Violet Louise Akron		
Fweeth Trene Mildred Akron	Stewart, Marjorie TreneAkron Stokich, Violet LouiseAkron		
Ferguson, Bernice GibsonAkron	Thompson, Helen GladysAkron Wolfe, Dorotha BlancheAkron		
Gregory, Ruby Christine Akron Hall, Lucille Anne Akron	Men 1; Women 20; Total 21		
IRREGULAR			
Troescher, Marie A.	Akron		

## THE TEACHERS COLLEGE

### GRADUATE STUDENTS

GRADUATE STUDENTS	
Amer, Josephine Rose	Akron
Bawden, Dorothea Caroline	Akron
Bishop, Donald G	Akron
Brown, Jerome Melvin A. B., The Ohio State University.	Barberton
Close, Alice Josephine	Akron
Bordner, Paul William	Akron
Cable, Rena Nancy B. E., The University of Akron, 1928,	Akron
	Akron
	Akron
Harding, Mrs. Meredith V.  B. Mus., Oberlin College.	Cuyahoga Falls
Hay, Lloyd Q.  B. S., College of Wooster.	New Industry
Henry, Frances Swan  B. S. in Home Economics, The University of Akron, 19	Akron
Hunsicker, Dorothy Alice A. B., The University of Akron, 1930.	Akron
A. B., The University of Akron, 1930.	Akron
Leacoma, Nicholas Edwin A. B., Fordham University, 1930.	
A. B., The University of Akron, 1930.	Akron
Roth, Ray B. S., Denison University.	
Stump, Carl M. A. B., The University of Akron, 1925.	
A. B., The University of Akron, 1927.	Alson
M. A., Teachers College, Columbia University.	Akron
Tucker, John Richard B. S., Bates College.  Waite, Thelma A.	Akron
B. Mus., Eastman School of Music, 1929. Witzeman, Evangeline	Akron
B. S. in Home Economics, The University of Akron, 193	29. [en 10; Women 13; Total 23

Allen, Grace Victoria Akron Armacost, Mildred Elsia Akron Besse, Helen Elizabeth Uniontown Bergen, Elizabeth Akron Bolinger, Ruth M. Flinton, Pa. Brauenstein, Anna Akron Brooker, Harriet Elisabeth Akron Brooker, Harriet Elisabeth Akron Carey, Alice Beatrice Akron Cochrane, Kenneth Akron Cochrane, Kenneth Akron Currie, Beatrice Elizabeth Akron Daitch, Harry Jack Akron Davenport, Winifred Silver Lake Village Deck, Frances Margaret Akron Dickinson, Vivian Mae Peninsula Dienoff, Philip Akron Elliott, Elizabeth Iris Cuyahoga Falls Frye, Harold Eugene Akron Griffin, Alice Helen Akron Griffith, John C. Akron Hammond, Wayne Celian Akron Hammond, Wayne Celian Akron Haskins, Robert Freeman Akron Heintz, Eleanor May Akron Hinkle, Lawrence J. Akron Hoch, Louise Conrath Akron	CLASS
Allen, Grace VictoriaAkron	Hoffman, Elizabeth MargaretAkron
Armacost, Mildred ElsiaAkron	
Besse, Helen ElizabethUniontown	Jones, Sarah Helen
Bergen, ElizabethAkron	Myers Donna Maefred Wooster
Branenstein. AnnaAkron	Nathanson, Albert EdwardAkron
Brooker, Harriet ElisabethAkron	Palmer, Ellen FrancesAkron
Buntz, Wava AndreneAkron	Pearce, Verena QueenAkron
Carey, Alice BeatriceAkron	Petley, Harriet LouiseAkron
Cooper Alice Margaret Akron	Plum, Esther Irene Akron Rahner, Donna Frances Akron Rinas, Dorothy Jane Akron Rinaldo, Joseph Nicholas Magnolia Rollins, Virginia Mae Akron Sarchet, Elizabeth Fae Akron Schiller, Florence J. Akron Schultz, Rosalind Pearl Cuyahoga Falls Schwartz, Irene Lillian Akron Seikel. Lucile Riley Akron
Currie. Beatrice ElizabethAkron	Rians, Dorothy JaneAkron
Daitch, Harry JackAkron	Rinaldo, Joseph NicholasMagnolia
Davenport, WinifredSilver Lake Village	Rollins, Virginia MaeAkron
Deck, Frances MargaretAkron	Sarchet, Elizabeth FaeAkron
Dienoff Philip Akron	Schultz, Rosalind PearlCuvahoga Falls
Elliott, Elizabeth IrisCuyahoga Falls	Schwartz, Irene LillianAkron
Frye, Harold EugeneAkron	Seikel, Lucile RileyAkron
Griffin, Alice HelenAkron	Spessard, Carl DickAkron
Haines Ruth Flizabeth Akron	Trommer Ruth Marie Akron
Hammond, Wayne CelianAkron	Walsh, Marian MargaretAkron
Haskins, Robert FreemanAkron	Washburn, BettyElyria
Hawkins, Edna MarieAkron	Wharton, Kathryn ElizabethAkron
Heintz, Eleanor MayAkron	Wozniak, Genevieve MargaretAkron
Hoch Louise Conrath Akron	Zahniser, Reinleth Clair
moch, Douise Contain	Schwartz, Irene Lillian Akron Seikel, Lucile Riley Akron Spessard, Carl Dick Akron Stedman, Virginia Martha Akron Trommer, Ruth Marie Akron Walsh, Marian Margaret Akron Washburn, Betty Elyria Wharton, Kathryn Elizabeth Akron Wozniak, Genevieve Margaret Akron Zahniser, Kenneth Clair Akron Zahniser, Robert Elmer Akron Men 12; Women 44; Total 56
	<b>27.189</b>
Apel, Doris Jean Akron Avery, Virginia Harriet Akron Axel, Goldie Akron Beims, Sophie Marie Akron Beill, Roscoe Roland Barberton Berglind, Edwin G. Akron Boyd, Antoinette Laura Akron Boyd, Antoinette Laura Akron Burch, Thelma Lucile Cuyahoga Falls Casenhiser, William Clifford Akron Church, Mary Eloise Akron Crecelius, Ross E. Akron Cunningham, Dortha May Akron Davis, Anna Louise Akron Delaney, Edith Estelle Akron Dix, Ruth Stevenson Akron Dix, Ruth Stevenson Akron Felger, Mary Maurer Akron Felger, Mary Maurer Akron Florin, Ignatius Joseph Akron Founk, David Stanley Akron Goehler, Charles Ralph Akron Goehler, Charles Ralph Akron Goehler, Charles Ralph Akron Halter, Marie Agnes Akron Halter, Marie Agnes Akron Hamlin, Margaret Jane Akron Hamlin, Margaret Jane	McGailey, Bernadette Marie Akron McGuire, Ruth Elizabeth Akron Mascola, Josephine Anna Akron Miller, Lucille Marie Akron Moore, Nellie Jane Akron Moore, Nellie Jane Akron Mosher, Elizabeth Louise Akron Oldham, Mary Josephine Akron Patton, Ruth Emma Akron Patton, Ruth Emma Akron Porter, Mary Elizabeth Akron Roudy, Frieda C. Akron Red, Helen Elizabeth Akron Rudy, Frieda C. Akron Schaefer, Orien Clifford Akron Schaefer, Orien Clifford Akron Sharp, David B. Akron Sharp, David B. Akron Shaw, Henry K. Akron Shaw, Henry K. Akron Sloop, Harold Akron Syloep, Harold Akron Syloep, Harold Akron Syloep, Harold Akron Stall, Katheryne Mary Akron Switzer, Ronald Earl Akron Talis, Ida Akron Thomas, Marion Gertrude Akron Tragler, Marjorie Ruth Akron Vaughan, Elizabeth Lawton Akron Wade, Margaret Elizabeth
Apel, Doris JeanAkron	McGailey, Bernadette MarieAkron
Avel Coldin ArrietAkron	Massola Josephine Anna Akron
Reims Sonhie Marie Akron	Miller, Lucille Marie Akron
Bell, Roscoe RolandBarberton	Moore, Nellie JaneAkron
Berglind, Edwin GAkron	Mosher, Elizabeth LouiseAkron
Boyd, Antoinette LauraAkron	Oldham, Mary JosephineAkron
Boyd, Virginia MaeAkron	Pinggi Tosephina Agnes Akron
Casenhiser William Clifford Akron	Porter, Mary ElizabethAkron
Church, Mary EloiseAkron	Reed, Helen ElizabethAkron
Crecelius, Ross EAkron	Rudy, Frieda CAkron
Cunningham, Dortha MayAkron	Schaefer, Orien CliffordAkron
Dal anay Edith Estalla Akron	Sharp David B Akron
Dix. Ruth StevensonAkron	Shaw, Edrie EAkron
Dobbins, Anne MargaretAkron	Shaw, Henry KAkron
Ellis, Nina MinnieAkron	Sloop, HaroldAkron
Fassnacht, Edward AlbertAkron	Snyder, Margaret EmmaAkron
Florin Ignatius Ioseph Akron	Switzer Ronald Farl Akron
Funk, David StanleyAkron	Talis, IdaAkron
Goehler, Charles RalphAkron	Thomas, Marion GertrudeAkron
Grimshaw, LilyCleveland	Tragler, Marjorie RuthAkron
Halter Marie AgnesBarberton	Vaughan, Elizabeth Lawton Akron Wade, Margaret Elizabeth Cuyahoga Falls Waugh, Nina Aldene Akron Wells, Arland Raymond Akron Wise, Raymond Shirey Akron
Hamlin Margaret TaneAkron	Cuvahoga Falls
Harwell, Mary JuliettAkron	Waugh, Nina AldeneAkron
Johnson, Edith VictoriaAkron	Wells, Arland RaymondAkron
Karlo, Alice RuthMogadore	Wise, Raymond ShireyAkron
Kennedy, Pauline LucilleAkron	Woolcock Caril William Akron
Kerr Mida Retty Akron	Zemlansky Olga Magdalene Akron
Haas, Eva Cherryholmes Barberton Halter, Marie Agnes Akron Harwell, Mary Juliett Akron Johnson, Edith Victoria Akron Karlo, Alice Ruth Mogadore Kennedy, Pauline Lucille Akron Kepler, Dorothy Akron Kerr, Mida Betty Akron Lundeen, Hazelle Matilda Akron	Woofter, Margaret Louise Akron Woolcock, Cyril William Akron Zemlansky, Olga Magdalene Akron Men 16; Women 50; Total 66
	ORE CLASS
Assessed Many Elizabeth Alexan	Ruckmaster Dorothy Akron
Armogida, Katherine Mary	Burnham, Genevieve RobertaAkron
Bailey, Edna AliceAkron	Camp, Verda RuthBarberton
Balasco, Thresa JAkron	Carey, Ruth MiriamAkron
Armacost, Mary Elazetti Arton Armogida, Katherine Mary Canton Bailey, Edna Alice Akron Balasco, Thresa J. Akron Barack, Emma Columbus Bartlett, Emory Samuel Akron	Buckmaster, Dorothy Akron Burnham, Genevieve Roberta Akron Camp, Verda Ruth Barberton Carey, Ruth Miriam Akron Caton, Elizabeth Kathryn Akron Chordar, Angelin Akron Chordar, Milan Bereth Akron
Bartlett, Emory SamuelAkron	Chorder Miles Rereth Akron

Armacost, Mary Elizabeth	
Armogida, Katherine Mary	Canton
Bailey, Edna Alice	Akron
Balasco, Thresa J	Akron
Barack, Emma	Columbus
Bartlett, Emory Samuel	
Bordner, Sara	Akron
Bourquin, Margaret May .	Akron
Browne, Dorothy Hannah	Akron
Diowac, Dolomy Hamman	

KE CLASS
Buckmaster, DorothyAkron
Burnham, Genevieve RobertaAkron
Camp, Verda RuthBarberton
Carey, Ruth MiriamAkron
Caton, Elizabeth KathrynAkron
Chordar, AngelinAkron
Chordar, Milan BerethAkron
Cleary, Aileen MarieAkron
Cohen Celia Akron

Crabb, Dorothy Esther	Akron
Crow, Elenor Jeannette	Akron
Davis, Loraine Sarah	Akron
Disler, Gladys Gross	Akron
Disler, Gladys Gross Eshleman, Romaine Louise	Akron
Fitterman, Sophie	Akron
Fitterman, SophieFletcher, Ruth Mildred	Akron
Friedman, Evelyn Hilda	Akron
Fry, Ethel	Akron
Fry, Ethel	Akron
Gordon, Jewell	Akron
Gruner, Elvira	Akron
Hanson, Alice	Akron
Hardman, Martha	Akron
Hardman, Martha Harper, Wylanne Harry, Marjorie Louise	Akron
Harry, Marjorie Louise	Akron
Heepe, Betty Jane	Akron
Heepe, Betty Jane	Akron
Hornberger, Aurelia Esther	Akron
Humelbau, Helen K	Akron
Humelbau, Helen KLinc Jeppeson, Julia MarieLinc Jones, John WilliamNew Ph	oln, Neb.
Jones, John WilliamNew Ph	iladelphia
Iones Marie Kathrun	A kron
Kanaga, Nancy LeeperKirn, Dorothy Elizabeth	Akron
Kirn, Dorothy Elizabeth	Akron
Kohl, Henry Wilbur	Akton
Kingman, Max H.	Elyria
Lasher, Dorothy Mary Lee, Frances Amelia	Akron
Lee, Frances Amelia	Akron
LeRoy, Margaret Jane	Akron
Lightle, Ruth Elizabeth	.Fairlawn
Llewellyn, Lois Verna	Akron
McGowan, Agnes Mary	Akron
LeRoy, Margaret Jane Lightle, Ruth Elizabeth Llewellyn, Lois Verna McGowan, Agnes Mary Malamatinis, Kaliope P.	Akron

Markley, Wyomia RegeniaAkron
Markley, Wyomia RegeniaAkron Metz, Dorothy ElizabethAkron
Miller, Alice ElizabethAkron
Motz, Ruth ElizabethAkron
Motz, Ruth ElizabethAkion
Mullin, Virginia RachelAkron
Perks, Elizabeth LoreAkron
Pritchard, Muriel FrancesAkron
Perks, Elizabeth Lore Akron Pritchard, Muriel Frances Akron Rowland, June Virginia Akron Rugers, Irma Carol Akron Rushton, Eileen Freda Akron
Rugers, Irma CarolAkron
Rushton, Eileen FredaAkron
Saladna, Louis Stephen Akron Sapp, Esther Akron Schwartz, Marie Lucille Akron
Sapp, EstherAkron
Schwartz, Marie LucilleAkron
Sholtis MaryAkron
Singer, Pauline PearlAkron
Smith Retty Haines Akron
Selzer, Mary Margaret Sholtis, Mary Akron Singer, Pauline Pearl Akron Smith, Betty Haines Akron Smith, Ruth Gladys Warsaw Sparhawk, Wilson A. Akron Speelman, Kathryn Lucille Akron
Sparhawk Wilson A Akron
Spalman Kathern I wills Akron
Stansfield, Helen FrancCopley
Straub, Ruth MildredAkron
Straub, Ruth MiluredAlren
Summy, Mae ElizabethAkron Tapper, EstherAkron
Tapper, EstherAkron
Tedrich, Helen Irene Akron Thomas, Harold Ray Akron Trenner, Mollie Louise Akron Vallen, Richard Keith Ghent
Thomas, Harold RayAkron
Trenner, Mollie LouiseAkron
Vallen, Richard KeithGhent
Webster Vashni EdwardAKTON
Whittaker, Nellie Akron Wigley, Virginia Jean Akron Wilson, Miles Urbana
Wigley, Virginia JeanAkron
Wilson, MilesUrbana
Wright, Ida MaeAkron
Wright, Ida MaeAkron Men 11; Women 75; Total 86

## FRESHMAN CLASS

Abramson, Janet Ann Allen, Troy Virginia Anderson, Evelyn Ruth Barthol, Mildred Hilker	Akron
Allen, Troy Virginia	Akron
Anderson, Evelyn Ruth	Akron
Barthol, Mildred Hilker	Atwater
Bennett, Leonard J	Akron
Billings, Alva Faith	Akron
Biondo, Vincent Joseph	Akron
Bode, Marguerite Alice	Akron
Brodt, Elizabeth Marion	Akron
Bennett, Leonard J.  Billings, Alva Faith Biondo, Vincent Joseph Bode, Marguerite Alice Brodt, Elizabeth Marion Brooks, Jacob Charles	Akron
Brown, Mary Eleanor	Akron
Butler, Virginia Caroline	Akron
Caler, Homer RoySand	Patch, Pa.
Campbell, Jean Marjorie	Akron
Chalker, Geraldine	Akron
Brown, Mary Eleanor Butler, Virginia Caroline Caler, Homer Roy Campbell, Jean Marjorie Chalker, Geraldine Chiaramonte, Carrie	Akron
Chordar, George	AKTOH
Clark, Evelyn	Akron
Clark, Évelyn Conkel, Bernice Eloise	Akron
Cookro, Anthony	Akron
Cookro, Anthony Cooper, Donna Iva	Akron
Cope, Ruth Cecelia	Akron
Darling, Ethelyn Elaine Darulis, William Anthony	Akron
Darulis, William Anthony	Akron
DeLong Robert Oral	Otway
Dickie, Mary McKnight	Akron
Dietz, Eleanor Alyce	Akron
DeLong Robert Oral Dickie, Mary McKnight Dietz, Eleanor Alyce Dreisbach, Eleanor Driesbach, Farrell Elton	o, W. Va.
Driesbach, Farrell Elton	Akron
Ellery, Lucy Alene	Akron
Fleming, Doris Lawrence	Akron
Gammeter, Geraldine Marie	Akron
Gandy, Al Johnson	Barberton
Geis, John Philip	Akron
Gilcrest, Martha Frances	.Pittsburgh
Goldberg, Rhoda	Akron
Gray, Charlotte Neal	Barberton
Growdon, Thelma Cecile	Akron
Driesbach, Farrell Elton Ellery, Lucy Alene Fleming, Doris Lawrence Gammeter, Geraldine Marie Gandy, Al Johnson Geis, John Philip Gilcrest, Martha Frances Goldberg, Rhoda Gray, Charlotte Neal Growdon, Thelma Cecile Gurin, Evelyn Hamilton, Bernadette Marie	Akron
Hamilton, Bernadette Marie	Akron

CLASS	
Hansen, Margaret Fay	Akron
Harper, Susan Frances Heisser, Leo Edward Hesidence, Arthur John Hensal, Grace Virginia	Akron
Heisser, Leo Edward	Lodi
Hesidence. Arthur John	Akron
Hensal Grace Virginia	Akron
Honeywell. Jane G.	Akron
Johnston, Phyllis Louise	Akron
Kindig. Howard	Akron
Hensal, Grace Virginia Honeywell, Jane G. Johnston, Phyllis Louise Kindig, Howard Kirkpatrick, Kathryn Klein, Herman Fred	Holland
Klein, Herman Fred	Akron
Koledin, Ladonna	Akron
Krumroy, Arlene Mae	Akron
LeMaster, Grace Irene	Akron
Koledin, Ladonna Krumroy, Arlene Mae LeMaster, Grace Irene Lundeen, Maybelle Irene	Akron
MacWhinnery Mary Jane	A KTOIL
Mr.Ch Alian Maria	A legon
Mackey, Charlotte Irene	Akron
Massar, Eleanor Rose	Akron
Mackey, Charlotte Irene Massar, Eleanor Rose Massey, Virginia Esther Moore, Arthur Morgan, Ruth Helen	Akron
Moore, Arthur	Akron
Morgan, Ruth Helen	Akron
Nye, Jane Elizabeth	Akron
Pansler, Frances Irene	Akron
Peterson, Idabelle K	Akron
Porter, Frances ElbertaNew	London
Rector, Mary Elizabeth	Akron
Reed, Helen Veronica	1 oledo
Richards, Violet Mae	Akton
Rosenberg, DorothyCa	moriage
Rosenthal, Jeanette	Akron
Schlegel, Avis13	anmadge
Sears, Marjorie States	Alron
Shenk, Frances M	Alren
Smith, Elinor	Akron
Morgan, Ruth Helen Nye, Jane Elizabeth Pansler, Frances Irene Peterson, Idabelle K. Porter, Frances Elberta Rector, Mary Elizabeth Reed, Helen Veronica Richards, Violet Mae Rosenberg, Dorothy Ca Rosenthal, Jeanette Schlegel, Avis Sears, Marjorie States Shenk, Frances M. Smith, Elinor Smith, Elinor Smith, Winifred Solomon, Mabel Stevens, Mary Jane	Akron
Stevens Mary Tone	Akron
Stevens, Mary Jane Sutherland, Vivian Ella Nar Sweeney, George Richard	icy Va
Swaanay Gaorga Richard	Akron
Sweeney, George Richard	OII

Taylor, Essie Jane Akron Testa, Nancy Mary Akron Townsend, Mary Anne Akron Trainer, Alice Catherine Akron Tranter, Dorothy Eveline Akron Trew, Ethel Graber Akron Tritt, Emily Altha Akron Tucciarone, Marguerite L. Hubbard Tuckman, Lena Mae Akron	Volz, Edward John Akron Watters, Geraldine Pearl Akron Weeks, Martha Irene Copley Welling, Harold Eugene Akron Wentsler, Cathryn Marie Akron Wiener, Betty Akron Wilson, Howard James Akron Wilson, Madeleine Lorraine Akron Zeno, Charles Vincent Akron
Tyson, IsaacAkron	Men 22; Women 77; Total 99
IRREGULAR  Cormany, Charles I. Barberton Eckroad, Mildred Alice Akron Engler, Leo Joseph Akron Johnson, Catherine Rose Akron Keller, Sister Agatha Akron Kincaid, Harriet Burt Akron Klipstein, Edward E. Akron Levy, Isadore Akron	Marconi, Albert Anthony Akron Meyer, Ray Catherine Akron Robertson, James Harvey Akron Trexler, Jerry William Akron Wade, Mildred Opal Akron Wales, Harriet Spring Nelsonville Willis, Hazel McDermott Canton Wright, E. Lois Canton Men 7; Women 9; Total 16
SPECIAL STUDENTS	
Buticofer, Hester Ida Akron Fishman, Pearl Akron Frye, Paul Leroy Akron Holzberg, Edna Akron Jones, Constance Hall Akron	Miller, Alwilda KathrynMeyersdale, Pa. Obenour, Wilma H

#### THE EVENING SESSION

Abel, I. J.
Acken Ralph
Adams, Charles W. Adams, Ella C. Adams, J. H. Adams, T. Davies Adams, Virginia M. Adamson, Call B.
Adams Ella C
Adams T H
Adams T Davise
Adoms Virginia M
Adamson Con D
Adamson, Carl B. Aidmon, Max
Albricht Mars N
Albright, Mary N.
Alexander, Arvin J. Alexander, Della
Alexander, Della
Alexander, Ernest w.
Alexander, Della Alexander, Ernest W. Alexander, F. Glenn Alexander, Harriet B. Allen, Dwight Allen, Margaret J. Allen, Ora Allen, Ruth B. Alexander, Grace F.
Alexander, Harriet B.
Allen, Dwight
Allen, Margaret J.
Allen, Ora
Allen, Ruth B.
Alspach, Martha E.
Alspaugh, Robert O.
Ammerman, H. E.
Ammon, Erwin E.
Amos, Jennie Amos, Mary Lorraine Amrein, Florence
Amos, Mary Lorraine
Amrein, Florence
Anderson, G. L. Anderson, O. M. Anderson, Roe G Anderson, W. M.
Anderson, O. M.
Anderson, Roe G
Anderson, W. M.
Andes, Martha L.
Andrews, Harold E. Andrus, Kathryn M.
Andrus. Kathrvn M.
Anthony, Lillian C. Archer, Edna K
Archer, Edna K
Armbruster, Ralph E.
Armogido, Katherine
Armbruster, Ralph E. Armogido, Katherine Armstrong, Alice
matrong, micc

Armstrong, Charles E. Armstrong, Mary Asher, Naoma Atchley, Mary Mason Atwell, Gladys V. Ault, Eva D. Auten, Josephine E. Ayers, Louis H. Ayres, Beatrice G. Aylor, Kirby L. Babb, Lois Leonard Bachman, Mary Backderf, L. H. Baird, Ray H. Baker, Geraldine Baldwin, Edith F. Baldwin, Edith F. Baldwin, Edith F. Baldwin, Edith F. Baldwin, Ivan R. Baltz, Robert E. Barrker, Clara Barker, Clara Barker, Clara Barker, Lillian Barkey, Florence Barna, Edward W. Barnes, Carl S. Barnes, Ennice Barnes, Mabel Barnhart, Sarah J. Barnhill, Otis J. Barrackman, Lulu Barrick, Angeline Barrett, Gertrude H. Barry, Lena Bartholomew, L. R. Bartholomew, Pearl J. Bartlett, Don Barton, Anna Bass, Alice S.

Bassler, John H.
Battistelli, P. E.
Baughin, Maude
Bauman, Louis E.
Beam, Wayne D.
Bean, Verna L.
Beck, Emma E.
Beck, Julia G.
Beck, William G.
Becker, John
Bedell, Alta M.
Behling, Grace A.
Belding, Herbert C.
Bell, Dudley
Belohlovek, Rudolph
Bennett, James R.
Benson, George H.
Benson, George H.
Benson, William N.
Bereit, Ernest F. O.
Bergen, Virginia J.
Berger, June
Bergilnd, Florence
Berloff, Samuel H.
Bernard, Sister M. Clarita
Bessay, R. S.
Besse, Anne E.
Bey, Albert P.
Bey, Arthur E.
Biasella, Connie M.
Bickel, Irene E.
Bierly, Mrs. Helen
Bietz, Kathryn H.
Bing, D. L.
Black, Robert E.
Blacketter, Louis M.

Blake, Hazel M. Blank, Ruth E. Blazek, Lydia A. Bleichrodt, Fred Bliss, Raymond Bliss, Kaymond
Blumenstein, Irving B.
Bock, George A.
Boden, Marjorie S.
Boedicker, Howard R.
Boehringer, Carl W.
Bohan, Edward
Bolen, Esta E.
Bolton, Alice Close
Bonar, Lottie M.
Bond, Robert K.
Boosinger, Albert O.
Booth, Ralph C.
Boots, Glenn L.
Borchers, Elizabeth E.
Bordner, Ada E.
Bordner, Ada E.
Bowen, Beatrice
Bowen, Achsah
Bowen, Beatrice
Bower, Orpha S.
Bowman, Wallace F.
Boyle, Curtis
Boyle, Ida Dyer
Branns, Faye
Brandon, Richard P.
Brant, Ray
Brazelton, John W.
Brean, J. S.
Brewbaker, C. E.
Bricker, Charles H.
Bricker, Richard H.
Bricker, Grace H.
Brock, Fred J.
Brock, Grace H.
Brockett, Warren
Brough, Ella H.
Brown, G. E.
Brown, Jerome M.
Brown, Jerome M.
Brown, Jerome M.
Brown, Mary M.
Brown, Helyn M.
Brown, Helyn B.
Bunnell, W. J.
Buthaker, Irene
Bruce, Elizabeth W.
Bruederlein, Rilla
Brune, Adelaide M.
Brune, Kathryn A.
Brutst, Harold E.
Bryant, Paul S.
Buckelin, Isabel
Buckly, J.
Bunts, Harold A.
Brust, Harold A.
Brust, Harold A.
Brune, Rathryn A.
Brust, Harold E.
Bryant, Paul S.
Buckelin, Isabel
Buckwalter, Emory T.
Bugh, John B.
Bunnell, W. J.
Bunts, Harold A.
Burgess, Otis E.
Burgner, Harel
Butter, Charles E.
Butter, Ruh Mae
Butler, Worton C.
Butters, Harriet E.
Butterworth, Mary E.
Byerly, Raymond R. Byers, R. B.
Cable, Rena Nancy
Cadden, Pauline
Cain, Sidney
Callaghan, Ruth E.
Callahan, Margaret
Callahan, Margaret
Callahan, Mary Ellen
Callentine, John A.
Callow, Harriet T.
Campbell, J. M.
Cannon, Emma B.
Capps, Amy A.
Carlisle, C. L.
Carmany, Ralph E.
Carnes, Jeannette I.
Carpenter, Lester W.
Carpenter, William R.
Carper, Frank W.
Carroll, George
Carson, Olive
Carson, Olive
Carson, Olive
Carson, George
Carter, Anthony G.
Cater, Paul
Cech, Frank C.
Chamberlain, Armin C.
Chamberlain, Georgia E.
Chamberlin, Ruth
Chandler, Gertrude
Chapes, Helen Johnson
Chermonte, Mary G.
Choban, John J.
Chapel, Ruth E.
Chappell, Christine
Christinan, Helen L.
Coborek, John W.
Clarke, Orville
Clawson, Elizabeth
Clarke, Orville
Clawson, Elizabeth B.
Clemenson, E. M.
Click, Thelma Mae
Close, F. H.
Cloyd, Ida E.
Coates, G. F.
Coates, Gladys M.
Cobak, George J.
Coburn, Roscoe G.
Cockrell, Helen
Coe, Mildred I.
Cohen, Jeanne E.
Cohen, Jeanne
Cochen, Jeanne
Cochen, Mary
Coke, Charles D.
Cole, Elsie
Cole, Lytle W.
Cole, R. J.
Collier, Vineta B.
Collins, Harold E.
Collins, Harold E.
Collins, Harold E.
Collins, Lillian H.
Coman, Jean
Compher, Stanley C.
Condra, Charles E.
Connelly, Charles E.
Connelly, Charles E.
Connelly, Peter F.
Connelly, Peter F.
Connelly, Peter F.
Connelly, Charles E.
Connelly, Charles E.
Connelly, Charles E.
Connelly, Peter F.
Connelly, Charles E.
Cooper, B. F.
Cooper, Dorothy A.

Cooper, Robert W.
Cope, Marion G.
Corman, Eleanor
Cottle, William A.
Coudrey, R. M.
Coughenour, Glenn O.
Cox, Frank H.
Craig, David
Cratty, Stella
Crawford, M. Lee
Croach, Frieda F.
Crooks, E. J.
Crooss, Wanda L.
Crotty, M. C.
Crow, Lucille
Crow, Victor E.
Crummel, Lulu M.
Culbertson, Mrs. Vera
Cultrona, James
Culver, Lawrence C.
Cunin, Lowell
Cunningham, Gerard J.
Curran, Flo B.
Curry, Wade H.
Curtis, Mary E.
Cusack, Margaret E.
Cutler, Thomas E.
Dabney, James C.
Dales, Anita E.
Damann, George
Dambach, Mary E.
Dandrea, Carl
Dandridge, Mildred L.
Dannemiller, Cornelius J.
Danzig, Celia
Darkow, Grace M.
Darrah, Russell D.
Daverio, Mrs. G. W.
Davidson, Henry F.
Davis, C. A.
Davis, Esther R.
Davis, Esther R.
Davis, Charles, Ruby L.
Davis, Richard L.
Davis, Ruby L.

Drake, Lena M.
Dreisbach, Eliver C.
Driscoll, Kathryn
Drummond, Willa
Dudgeon, Luverne
Dunckley, Sarah E.
Dunkel, Charles
Dunmire, Florence W.
Durling, G. K.
Durst, Georgiana
Duvall, Lucille F.
Dwyer, Kathaleen
Eagle, Richard
Eagon, Reva M.
Eakin, Leila H.
Eason, Nedra C.
Easterday, Hazel V.
Eaton, Hugh M. Jr.
Eberts, Edna Jae
Eckert, Clara A.
Eckler, Julia L.
Eckroad, Frank E.
Ecrement, Lloyd L.
Edgar, Grace
Edwards, Ruth
Egington, Elizabeth C.
Eiber, Russell
Eichelberger, O. P.
Ekblom, Rachel
Ekelberry, Lucy M.
Elderkin, Pauline
Elinoff, Joseph A.
Ellis, J. Betty
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Ellis, J. W.
Emmons, Virginia Lois
Enos, Louis H.
Erich, Rudolph
Ervin, Lilliam G.
Erwin, Mary E.
Etling, Mary H.
Eulitt, Roy O.
Everson, Cora E.
Evitt, Claude M.
Eyre, Minnie
Fackler, Mary
Failor, J. W.
Fain, Ellis W.
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Farin, Farel, Katherine
Farrington, R. A.
Farver, Ethel
Ferener, Ethel
Ferener, Esther H.
Ferguson, Gilbert F.
Fether, Mary I.
Feild, Genevra
Fielding, John H.
Fields, F. J.
Fiendan, Alice E.
Firick, Florence L.

Fish, P. J.
Fisher, Marie K.
Fisher, Warie K.
Fisher, Violet
Fitterman, Frank E.
Fitzgerald, Ila
Flanders, Stanley
Flanigan, Mary V.
Fladco, Carl J.
Flaugher, Vernol
Fleming, Robert H.
Fletcher, Edwin D.
Fletcher, Ruth W.
Flickinger, Bessie
Flower, Edward O.
Fogarty, Bernice
Fogle, W. G.
Foland, Ruth M.
Foltz, Esgar B.
Forbes, Herman L.
Fornwalt, Roy A.
Fossum, Gladys O.
Foster, Linny M.
Fouse, Russell L.
Foust, Edith
Foutts, James C.
Fowls, Carl F.
Fox, Lee
Fraley, Dallas
Francis, Mildred M.
Frater, Lulu L.
Frederick, Florence
Freeborn, Glenn A.
Freedman, Ann
Frey, Margaret F.
Friccius, Dina
Fritchman, James B.
Fritsch, Elva Margaret
Frost, Alma V.
Frost, Cecil
Frost, Mareta E.
Fry, Nora
Frye, Irene
Fuller, Claude D.
Fuller, May L.
Fullerton, F. S.
Fulton, Charles E.
Fulton, Fay E.
Funk, J. C.
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Gashagan, Don R.
Gahring, Hinda W.
Gallets, Sophia G.
Galloway, F. T.
Galloway, William G.
Gamble, C. A.
Gardner, R. Luther
Garrison, Bernice S.
Garver, Charles L.
Gaul, Maud
Gaylord, Dorothy H.
Gedeon, Irene A.
Geer, H. B.
Geiger, James C.
Geoger, Marele J.
Geis, Katherine
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Geoger, Geraldine
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Geis, James G.
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Gibbs, Orville E.

Gibson, Emily R.
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Gilbert, F. E.
Gilbert, Jacob
Gilham, Clarence T.
Gill, Ollie Mae
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Giroux, Rachel Mayo
Glick, Eva G.
Glanville, Olive
Glasgow, Lillian A.
Glover, Dorothy H.
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Graham, Luella
Grannel, Virginia
Grant, Catherine
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Grant, Claudia
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Grant, Cornelia C.
Grant, Glennie
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Green, Gordon
Green, Richard
Greenly; Russell J.
Greenwood, Edward M.
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Greensler, Harry R.
Griffith, Harry D.
Grimm, Mary L.
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Gruner, Albert
Grunwald, Harvey D.
Guisewite, Lee E.
Gurino, Florence
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Gutierrez, Fernando I.
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Hanlon, Thomas
Hall, Lois
Hall, Vida I.
Hamilton, Thomas
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Hamilton, Thomas
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Hand, Evelyn
Handler, Arthur C.
Hansen, John A.
Hansen, John A.
Hansen, C. Arnold
Hapfner, Mabel
Harrington, Fay B.
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Harrins, Agnes M.
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Harrison, J. S.

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Hatfield, Dora B.
Hassler, Doris J.
Hartung, R. H.
Hatter, Pearl J.
Hauck, Laura N.
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Hay, A. R.
Hay, Helen
Hayes, Merlin L.
Hayworth, Jane S.
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Heed, Harmon E.
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Heisel, Eldred B.
Helwig, Corinne C.
Hendershot, Belle B.
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Henthorne, Anna Belle
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Herholz, Richard C.
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Hershberger, Verda
Herz, Ella E.
Heskett, Grace M.
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Hoffman, Thelma M.
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James, Iva B.
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Koegel, William
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Kraft, Antoinette
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Krueger, Inez C.
Krupp, Ilma I.
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Kummer, Florida R.
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Labbe, Hilda R.
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Loons, Velma D.
Joomis, Olin W.
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Lynn, Orrien K.
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McCue, Marge
McCullough, Mabel C.
McConnaughy, Joseph D.
McCormick, Beatrice M.
McGready, Mary
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McFarlin, Edna
McGee, Lilliam E.
McGinnis, William H.
McGintosh, W. C.
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McIntyre, Mildred V.

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McKee, George J.
McKee, Rebecca
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McKinnon, R. A.
McLaughlin, Loretta
McLean, Dwight
McLean, Walter R.
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McNeses, Carl P.
McNulty, Patrick
McPeck, John K.
Mabry, Winnefred M.
MacAfee, William J.
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MacDonald, Belle A.
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MacGregor, Elizabeth
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Madox, Herbert V.
Magenau, William
Maggar, Mike
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Malon, John A.
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Marke, E. M.
Marks, Benjamin H.
Marley, Margaret
Marriott, Elizabeth W.
Marshall, D. F.
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Matthews, Earl D.
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Meyer, Elfrieda
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Meier, Ruth R.
Melander, Amanda C.
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Miller, Lugene S.
Miller, Dorothy L.
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Miller, Helen Evans
Miller, Lawson E.
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Mitchell, Florence A.
Moats, Emerald R.
Mochel, Arthur
Moen, Thelma A.
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Moore, Alice
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Ormsby, Ross R.
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Osthaus, Ned
Ostrov, Jeannette
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Palmer, Francis W.
Pamer, Edward J.
Pangburn, Gregory H.
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Parsell, C. W.
Parsons, J. Walter
Parsons, L. E.
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Peacre, W. J.
Pease, Ruth P.
Pelfrey, William O.
Peltz, Joseph P.
Pembroke, Beatrice
Penrose, Margaret
Perault, Mrs. Laura
Peterson, Ivan
Petrou, John D.
Peyton, Myron P.
Pfeister, Sevilla
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Phillips, J. T.
Phillips, Lennie
Pickton, Jeanne L.
Pickton, Robert J.
Piehl, H. C.
Pilkey, Marcia
Pisciotta, Philip
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Pleasants, Elizabeth
Pluntze, Jane
Poe, Helen F.
Pofahl, Ray H.
Polm, James G.
Poore, Marian
Popadick, William
Poppenger, Blanche
Porter, Florence C.
Porter, Nellie
Powers, Emma D.
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Prentiss, Esther Hoff
Prentiss, Z. R.
Presswell, Lucile M.
Preto, J. V.
Price, James R.
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Preto, J. V.
Price, James R.
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Ouaintance, Elsie
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Rall, Thelma I.
Ransay, Lenora
Randall, Blanche L.
Randall, Lawrence S.
Randall, Nora E.
Rausch, Calvin P.
Raynow, Robert T.
Ream, Charles F.
Reaven, Saul D.
Redinger, Catherine
Reed, Edith H.
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Regal, A. P.
Rehman, Isabel
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Reiff, Anne C.
Rennecker, Gertrude I.
Reuss, Mary H.
Rex, LeRoy
Rhilander, Edna
Rhodes, Marguerite F.
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Richard, Gerald A.
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Richardson, Forrest
Rickey, Edna
Ricksecker, Cleve W.
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Rist, O. S.
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Robey, Columbia
Robinson, Bernice M.
Robinson, Sam
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Rose, Albert C.
Roseman, Fanny
Rosenberger, Gwendolyn
Rosenfield, Sam
Rossker, Morris
Ross, Sarah
Ross, Thelma C.
Rothermel, Bernard P.
Rowe, Grace
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Smith, Ethel K.
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Smith, Myron M.
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Stone, Goldie M.
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Waston, William, Jr.
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Whyler, Frank E.
Widmyer, Harvey R.
Wiener, J. Sanford
Wilcox, Irma D.
Wilcox, Richard P.
Wilcox, Irma D.
Wilcox, Richard P.
Williams, D. F.
Williams, Beatrice
Williams, Cora E.
Williams, Evelyn M.
Williams, Evelyn M.
Williams, Evelyn M.
Williams, Hazel
Williams, Luella E.
Williams, Vivian
Williams, Vivian
Willis, Hazel K.
Willson, Edward A.

Wilson, Alexander
Wilson, B. V. L.
Wilson, Stella H.
Windsor, Stella H.
Windsor, Frederick
Winkler, Virginia
Winland, J. Van
Wise, Mabel
Witthoeft, Dorothy
Wolfe, Homer G.
Wolfe, H. Vernon
Wolfe, Raymond F.
Wolford, Mary E.
Wolverton, Iva M.
Wood, Ida S.
Wood, Leona R.
Wood, Thomas B.
Wood, Thomas B.
Wood, Winnigene I.
Woodard, Harriet E.
Woodfill, Helen
Woods, Alice C.
Woodward, Harry E.
Wootkon, Nina
Work, Owen J.
Workman, Lucille K.
Worrell, Mayme
Worrell, Virginia
Worthen, Samuel K.
Worthington, Olga

Worthington, R. S.
Wright, Louise J.
Wright, Louise J.
Wright, W. H.
Wuegler, Matilda M.
Wybel, Grace
Wynkoop, Margaret L.
Wynne, Elizabeth
Yanley, F. Wilson
Yeager, Judd
Yoakum, Cleora M.
Yockey, J. A.
Yost, Harriet M.
Young, Beatrice
Young, Harriet
Young, Roy F.
Yount, James
Zalob, Stanley G.
Zeis, Gerald
Zeis, Mary
Zents, Bernard A.
Zepp, Marguerite E.
Zettle, Ethel H.
Ziegler, F. C.
Zimmerman, Homer E.
Zinninger, Alma M.
Zotterman, John
Zuelsdorf, Ruth R.
Zushin, Louis J.

Total
Men 757; Women 814; 1571
Day Session students not listed—Men 78; Women 82; 160 835 896 1731

### 1930 SUMMER SESSION

Adamson, Vera
Adelman, Sara
Ahern, Rose Louise
Albers, Alta
Allexander, Joseph
Alexander, Joseph
Alexander, Maude Mae
Allaman, Loudora Mae
Allaman, Loudora Mae
Alloright, Kathryn E.
Allen, Anne (Mrs. W. C.)
Allen, Sam Harper
Allison, Birdine
Amos, Jennie
Anderson, Clara Belle
Anthony, Lillian Constance
Armacost, Kathryn G.
Armstrong, Edith
Arnold, Victoria Ulrich
Ashburn, Glenn
Ashburn, Mildred
Atwell, Gladys Viola
Axel, Goldie
Bankes, Byron A.
Barry, Harriet Elizabeth
Bartholomew, Luther R.
Baughin, Maude
Baumert, Paul
Baumgardner, Edna
Bean, Gladys Elizabeth
Becker, Harold David
Becker, Marie T.
Becker, Paul
Beitzel, Verna M.
Belohlavek, Vlasta Marie
Bendell, Helene
Benson, H. George
Bergen, Elizabeth
Berloff, Morris
Bey, Albert P.

Binet, Anna Edith
Black, Margaret Alvina
Blake, Hazel Moomaw
Black, Paul E.
Blasser, Wayne C.
Bliss, Raymond
Booth, Richard F.
Bowen, Beatrice
Boyd, Helen F.
Boyd, Leona R.
Boyle, Curtis
Braunstein, Anna
Brooker, Harriet E.
Brown, Florence W.
Browne, Dorothy Hannah
Brubaker, Irene
Bruce, Elizabeth W.
Bryant, Charles Edmond
Bucklin, Isabel
Cain, Harold Charles
Camp, Glenn
Camp, Verda Ruth
Campbell, James Martin
Cannan, David Ewart
Carr, Mary
Carson, Olive G.
Chamberlain, Georgia E.
Chambers, Auten
Chance, Gladys D.
Cheyney, LaVerne Emerson
Clapp, Suvila
Clapp, Suvila
Clapp, William M.
Clark, Evelyn
Clemenson, Edwin M.
Clouse, Miriam
Cockrell, Helen Elisabeth

Cole, Pearl
Conklin, Mattie V.
Conner, S. Grant
Cooper, Alice M.
Cooper, Alice M.
Cooper, Beatrice Evelyn
Corl, Helen Marie
Cowie, Esther Irene
Cox, Theodore
Cramer, Octave Teague
Crane, Lionel
Crane, Mary C.
Crummel, Lula M.
Cunningham, E. N.
Curnow, Harry T.
Currie, Beatrice
Cusack, Margaret
Damann, George A.
Dameron, James E.
Darkow, Grace M.
Davis, Hazel Belle
Davis, Richard L.
Day, Gertrude Ethel
Decker, Faith
Deering, Grace Marie
Deloche, Julia
Delp, Mrs. I. W.
Denning, Murl Irene
DeShon, Clara Edna
Dete, Leo J.
Dice, Dorothea Esther
Dieckman, Florence
Diller, Goldie M.
Dittemore, James A.
Dobias, Helen
Dull, Bernice Irene
Dumm, Marie
Dyson, Phyllis W.

Ecrement, Florence N.
Ecrement, Lloyd L.
Eginton, Elizabeth C.
Eick, Mildred B.
Ekelberry, Lucy Margaret
Elliott, Eleanor Eileen
Elliott, Eleanor Eileen
Elliott, Eleanor Eileen
Elliott, Sina
Emley, Cataldi Josephine
Emmons, Virginia Lois
Engstrom, Ruth Isabelle
Epler, Frances
Elling, Mary Helen
Evans, Celia S.
Ewing, Ruth
Fachler, Mary
Fair, Wade Burkhart
Fankbonner, Doris Kathryn
Farrington, R. A.
Felsted, L. F.
Fenstermaker, Miriam Ruth
Ferrell, Hazel Kreiter
Firick, Florence L.
Fischer, J. H.
Fitterman, Sophie
Fletcher, Josephine Stanley
Fletcher, Ruth
Flickinger, Helen Louise
Fogarty, Bernice M.
Foote, Clifford Lee
Fooust, Edith
Frater, Lula L.
Frazier, Dorothy
Frazier, Ruth
Frisby, Josie Bernice
Frye, Irene
Fuller, May L.
Gannon, Josephine
Gates, Franklin Henry Frisoy, Josie Berince
Frige, Irene
Fuller, May L.
Gannon, Josephine
Gates, Franklin Henry
Gettins, Patricia
Gibbs, Edna Antoinette
Gibson, Gertrude Mabelle
Geissen, Dorothy Elizabeth
Gilgen, Anna
Gilham, Clarence T.
Giroux, Rachel Mayo
Glover, Dorothy Holmes
Goddard, Mae L.
Goldin, Mayme Winifrede
Gordon, Louise H.
Goss, Clara
Graham, Ruth E.
Graham, Ruth E.
Graham, Ruth E.
Greenly, Russell J.
Greer, Ruth C.
Griffin, Dora F.
Groves, Mary Beulah
Gruccio, Joseph
Haefele, Pluma Verne
Hahn, Helen Hamilton
Hammerbeck, W. Lloyd
Hanks, Jessie M.
Haren, Agnes
Harnish, Lena S.
Harrington, Fay
Harrington, Gudin Bean
Harris, Agnes Margaret
Harris, Mary
Hartman, Clara D.
Haskins, Robert Freeman
Hassler, Doris J.
Hawk, C. L.
Hay, Edna
Heiman, Loretta Hawk, C. L.
Hay, Edna
Heilman, Loretta
Heintz, Eleanor May
Heinzman, Fern K.

Henry, Winnie
Hepner, Eva L.
Herres, Katherine Ann
Hersbberger, Ralph William
Hill, Charles John
Hill, Italia Elizabeth
Hill, Marjorie N.
Hillock, Amy Osborn
Hirleman, Adeline A.
Hoch, Louise C.
Hoffman, Catherine C.
Hoffman, Lela E.
Hoohler, Paul
Horning, Leone M.
Hottenstein, Frances C.
Houglan, Mary
Houser, Mildred F.
Houser, Ruth Louise
Hubbard, Audree
Hubber, Ann Nina Houser, Ruth Louise
Hubbard, Audree
Hubbard, Audree
Huber, Ann Nina
Hunsberger, W. D.
Hunsicker, Dorothy Alice
Hunt, Anne B.
Hurst, Olive W.
Hurst, Robert Erskine
Hutz, Elonet A.
Hyatt, Eulalia C.
Inches, Eleanor Mae
Inks, Reva Elenor
Irvin, Gladys A.
Irwin, Vera
Jaccaud, Elma T.
Jackson, Helen Jean
Jacoba, John Hall
James, Iva B.
James, Ruth E.
Jennings, Dorothy Jacobs, John Hall James, Iva B.
James, Ruth E.
James, Ruth E.
Jennings, Dorothy
Jeppeson, Helen Louise
Jerkovich, Gizella
Johnson, C. R.
Johnston, J. G.
Jones, Irene
Jones, Paul J.
Keach, Agnes
Keck, Isa
Keck, Kenneth
Keck, Olive
Keister, Don Adams
Kelly, Kathryn U.
Kennedy, Isabel
Kenney, Kathryn J.
Kenney, Kathryn J.
Kenney, Kathryn J.
Kenney, Kathryn J.
Kenney, Robert A.
Kirk, Lorena R.
Kepler, Dorothy
Kerr, Betty
Kindig, Ruth M.
Kinney, Robert A.
Kirk, Clara L.
Kirk, Mary J.
Kirtledge, Lois A.
Kirk, Clara L.
Kirk, Mary J.
Kittledge, Lois A.
Klein, Max Ralph
Klinker, Enid Grace
Knapp, Audrey
Knecht, Cloda
Kolb, Mae L.
Kopf, Margaret E.
Kopf, William Henry
Kramer, Inez K.
Kramer, John E.
Krebs, Walter F.
Kroegeer, Ruth E.
Krupp, Ilma
Kuehnle, Charles H.
Kupelian, Mary
Lachman, William
Ladd, Alfred D.

Lann, Viola M.
Lariman, Elizabeth Ruth
Lauby, Myrtle Estella
Laurence, James
Leigh, Ralph H.
Leighty, Alice Stansberry
Levy, Isadore
Lewis, Lois Sampler
Lloyd, Eleanor Ruth
Loeber, William
Lowen, Ellisa
Lowen, Seymour L.
Lowrey, Katheryn Mae
Lynch, Verna H.
McAtee, Elizabeth C.
McAuliffe, Alice
McBee, Bernard L.
McBride, Evelyn M.
McClintock, Anna Elizabeth
McCormick, Beatrice M.
McCrea, Berneice LaNier
McCune, Grace E.
McDonald, Rose Ellen
McFadden, Marion B.
McGuire, Ruth
McLees, Ethell
McShaffrey, Rita
Machamer, Edmund Wm.
Mahan, Fulton S.
Mahoney, Elizabeth
Maier, Bertha L.
Maillard, Mary L.
Maillard, Mary L.
Markley, Regenia
Mason, Anita Louise
Masquelier, Florence H.
Mast, Florence Lucille
Maxwell, Boyd
Mayfield, E. A.
Means, Emily S.
Medvin, Lewis
Metzger, Frances
Miller, Marie D.
Miller, Marie D.
Miller, Marie Elizabeth
Miller, Sam
Mills, Kathleen
Mills, Kathleen
Mills, Kathleen
Mills, Marian
Minter, Irene
Mitchell, Thelma
Monegan, Berenice
Montgomery, Edwin A.
Moon, Midred R.
Moon, Mare Virginia
Moon, Midred R.
Moone, John F.
Moorehead, Alta Timlin
Morrill, Kathryn Lee
Morris, Donald Robert
Mostenic, Mary
Motniller, Neva D.
Mower, E. O.
Moyer, Wade
Mullett, Evelyn
Muskoff, Jeannette
Myers, Verna A.
Myers, Verna A.
Myers, Wayne L.
Naumer, Lora Irene
Naylor, Grace
Nichols, Martha O.
Nickles, Mary Jane
Nolley, Gilbert T.
Northy, Gertrude M.
Nottingham, Margaret
Noyes, Eugene C.
Odenbach, Mary Jane
Nolley, Gilbert T.
Northy, Gertrude M.
Nottingham, Margaret
Noyes, Eugene C.
Odenbach, Mary Jane
Nolley, Gilbert T.
Northy, Gertrude M.
Nottingham, Margaret
Noyes, Eugene C.
Odenbach, Mary Jane
Nolley, Gilbert T.
Northy, Gertrude M.
Nottingham, Margaret
Noyes, Eugene C.
Odenbach, Mary Jane
O'Molley, Margaret

Orin, James L.
Ormeroid, Moulton
Orr, Grace
Orth, Marion Estelle
Osmun, Marguerite
Owens, Olive Jean
Pansler, Irene Frances
Pardee, Helen L.
Parker, Harriet J.
Parker, Hartwell Ruedy
Parker, Marilla A.
Parks, Helen
Parks, Marjorie C.
Parr, Lunetta Viola
Patton, Ruth Emma
Pearce, Edgar Maurice
Pease, Ruth Penfield
Peoples, Jessie
Perault, Laura
Perry, Rose Collin
Perry, William F.
Petrou, John D.
Pfouts, Katherine
Phillip, Carrie
Phillips, Agnes S.
Piatt, Jennie Larson
Piazza, Agnes Josephine
Pittenger, Doris
Plum, Esther Irene
Points, Florence
Poore, Marian E.
Porter, Frances Elberta
Porter, John Edwin
Porter, John Edwin
Porter, Nellie Thornburgh
Price, Alice E.
Pugth, Paul R.
Purdy, Vada H.
Purdy, Vada H.
Putnam, Grace Miller
Oueen, Harold E.
Randall, Blanche Lee
Ransom, Mildred Eleanor
Rea, Helen Eloise
Reed, Betty
Reed, Edith
Reed, Martha Virginia
Reeves, Howard E.
Reynolds, Myrtle
Rice, Esther Fisher
Rice, Gladys Keith
Rider, Carrie
Rider, Genevieve
Riehl, Doris L.
Rininger, Lottie Diehl
Ritzman, Catherine
Robb, James Edward
Robertson, Lowell E.
Robinson, Helen Faye
Robinson, Margaret
Rodda, Herbert
Rodl, I. Clifford
Roller, Luella
Rolli, E. Elsie
Root, J. R.
Ross, June
Rossetti, Carnegie
Ruttman, Josephine Dietz
Ruttman, Josephine Dietz
Ruttman, Josephine Dietz
Ruttman, Josephine Dietz
Ruttman, Josephine E.
Schelemmer, Josephine E.

Schmidt, Elisabeth P.
Schnegg, Helen Beatrice
Schopke, Eleanor A.
Schorle, Dorothy
Schweisberger, Harold C.
Schweisberger, Nancy Helen
Scott, Grace Doris
Secttor, Julian Victor
Seenberg, Ada
Seikel, Lucile Riley
Shaeffer, Marie W.
Shaffer, Emmert
Shamlin, Lee B.
Shank, Donald J.
Sharp, David Benjamin
Shaw, Sadie
Shields, Myrna B.
Shondel, J. Stanley
Shook, Lois Addie
Shotwell, Mary F.
Shover, Rebecca
Shrigley, Myretta
Sigmon, Lucy E.
Sills, Evelyn R.
Simpson, Mary L.
Simpson, William C.
Singer, Beatrice E.
Sister M. Clarita Bernard
Sister M. Bernice Roussert
Sister M. Paschal Dillon
Sister M. Helen
Sister M. Peronilla Gosser
Sister M. Peronilla Gosser
Sister M. Roselyn Weigand
Skidmore, Lauretta S.
Smiley, William Lee
Smith, Blanche Flaherty
Smith, Florence M.
Smith, Henry C.
Smith, Jane E.
Smith, Lucille Jessie
Snidle, Edith Rukgaber
Snyder, Kathryn Elizabeth
Snyder, Leonard F.
Snyder, Margaret
Somers, Gertrude
Spacht, E. Paul
Speelman, Kathryn
Speicher, Joseph Lewis
Sperry, Helen A.
Spoo, Ellen Witters
Stabb, Marguerite
Stahl, Katheryne
Stanley, Sarah
Stansberry, M. Callie
Starner, Geraldine
Starr, Ethel Marie
Starr, Ethel Marie
Start, Ethel Marie
Stanley, Sarah
Stansberry, Ada E.
Stansberry, M. Callie
Starner, Geraldine
Starr, Ethel Marie
Starre, Geraldine
Start, Ethel Marie
Stauffer, Blanche Verena
Stebick, Harold Anthony
Steever, Mildred
Stebick, Harold Anthony
Steever, Mildred
Steble, John Louis
Steigner, Ora M.
Stetler, Meta Anne
Stevenson, Lura
Stevenson, Lura
Stevenson, Lura
Stevenson, Lura
Stevenson, Martha
Stoofe, Loyen
Stone, Goldie May
Storts, Adaline Maria
Strong, Cordella Ruth
Stump, Carl M.
Sturdevant, Martha
Suitt, Sam R.
Sullivan, Helen Jane
Sullivan, Helen Jane
Sullivan, Marnette Men 1

P. Sullivan, Nora E. Sulzbach, Esther Mae Switzer, Happy M. Taylor, John E. Tedrick, Helen Tennissen, Ann Marie Theakston, Angie Thomas, Esmond Thomas, Faye Thompson, Flossie Thornhill, Gladys Thourot, Mary Grace Todd, Elsie Claire Tothy, Irene Gertrude Tracy, L. Alice Trainer, M. Grace Treloar, Philippa Tschantz, Helen Pauline Ulmer, Amy Vale, Orra Hudson Van Noate, Metta F. Venner, Harry Vermillion, Gertrude Vincent, Clarence Hall Vittorella, Lewis Voris, Marion Waldron, Patricia Waller, Florence Washburn, Betty Waxman, Louis H. Weachter, Evelyn Mae Weaver, Burdette S. Wentsler, Norman Edgar Wert, Ruth Wentworth Wessel, Helen M. Wetzel, Pauline Carolyn White, Lloyd P. Whiteman, Frank Martin Whiteman, Henry H. Williams, Robert R. Williams, Robert R. Williamson, Odas D. Wilson, Harnah Jane Wilson, Harnah Jane Wilson, Harnah Jane Wilson, Harnah Jane Wilson, Herman Stewart Wilt, Olive M. Wilse, Mariam L. Wise, Mariam L. Wise, Mariam L. Wood, R. T. Woodworth, Florence Woolcock, Cyril William Worrell, Virginia Mae Wozniak, Genevieve Mary Wright, Earl C. Wyatt, Birchard Elton Wybel, Grace A. Yates, Dora S. Yeager, Judd D. Yost, Claire Biles Young, Miranda J. Zahniser, Robert E. Zak, L. E. Zang, Charles Wm. Zeis, Mary Zellinger, Bella Zirkle, Elva

# SUMMARY OF STUDENTS IN DAY CLASSES

# BUCHTEL COLLEGE OF LIBERAL ARTS

	Men	Women	Total
Graduate Students	7	3	10
Seniors	53	42	95
Juniors	53	37	90
Sophomores	71	32	103
Freshmen	102	75	177
Irregular Students	15	3	18
Special Students	10	3	13
	311	195	506

# COLLEGE OF ENGINEERING AND COMMERCE

	Men	Women	Total
Graduate Students	1	•••••	1
Seniors	57	4	61
Juniors	52	5	57
Pre-Juniors	51	*****	51
Sophomores	89	19	108
Freshmen	142	24	166
Irregular	1	1	2
Special	6		6
			470
	399	53	452
Distribution by Departme	nts		
Engineering	268	•••••	268
Commerce and Business Administration	129	4	133
Secretarial Science	2	49	51
	399	53	452

# THE TEACHERS COLLEGE

	Men	Women	Total
Graduate Students	10	13	23
Seniors	12	44	56
Juniors	16	50	66
Sophomores	11	75	86
Freshmen	22	77	99
Irregular Students	7	9	16
Special Students	2	8	10
	80	276	356

# SUMMARY OF ALL STUDENTS IN THE UNIVERSITY

	Men	Women	Total
Graduate Students	18	16	34
Seniors	122	90	212
Juniors	121	92	213
Pre-Juniors	51	•••••	51
Sophomores	171	126	297
Freshmen	266	176	442
Irregular Students	23	13	36
Special Students	18	11	29
Total in Day Session	790	524	1314
Total in Evening Session	835	896	1731
Total in Summer Session (1930)	161	420	581
	1786	1840	3626
Less duplications	153	242	395
	1633	1598	3231
Extension classes, off the campus	30	14	44
Total net enrollment	1663	1612	3275
Total net enrollment reduced to full-time stu five part-time (evening, summer and ex equivalent to one full-time student	tension	students	as

# DEGREES CONFERRED JUNE 17, 1930

BUCHTEL COLLEGE OF LIBERAL ARTS

Bachelor of Arts Loudora Mae Allaman Olga Binet William Blair Boblett Beatrice P. Boyd Robert Johnston Brown Harold M. Cochran Dorothy Louise Conley Irvin Stanley Corman Arthur George Croysdale Byron Holvey Darst Anna M. Dasch Maxwell Haydn Davies Howard MacKenzie Doutt Charles D. Fink Mary Kathryn Foster Charles D. Fink
Mary Kathryn Foster
Corinne France
Harold Edward Gaskill
Joseph Ellsworth Gilleland
Robert Bruce Graham
Merlin Lewis Hayes
Dorothy Alice Hunsicker
Ruth Elizabeth Johnson
Irene Moredock Jones
Louise Koegel
Mary Elizabeth Kroeger
Arthur Henry Kruse
Inga Thelma Lansinger
Lucile Leach
†John Bernard Lewis
John Paul Mahoney
Marian Estelle Northy
Juliette Parenti
William Thomas Perry
Lowell Emmit Robertson
Harriet Anne Rockwell
Joseph Marion Rogers
Elliott Herron Shuman
†Ruth McNeil Sloan
Martha Sturdevant
Rufus Lee Thompson
Charles David Tripp
Charles William Ufford
Florence Josephine Waller
Eugene Calvin Warner
Frank Martin Whiteman
Edwin Arthur Young
Sachelor of Science

Bachelor of Science

Lawrence Maywood Baker Elmer C. Brueggeman Agnes Evelyn Burns Norman Gail Fisher Frederick M. Galloway George B. Lenhart Claude Welton Mottinger Reubin Robert Pliskin Russell Field Snyder

CURTIS SCHOOL OF HOME ECONOMICS

Bachelor of Science in Home

Janet Read

COLLEGE OF ENGINEERING
AND COMMERCE

Civil Engineer wil Engineer
Merland Henry Benedict
Volco Talisman
Carl Sylvester Viall
John Forest Wagner
Frank Merlin Williams

Frank Merin Williams
Electrical Engineer
William Benseler
George Gerald Clark
Glenn Oberlin Hite
Wilbur Hoffman
Lester Theodore Rang
Wendall Oliver Wilson
William Brooks Woodward

Mechanical Engineer
Robert Edgar Broxon
Leland Vernon Fisher
Harold Earl Hilbish
Clinton Aloysius Hodson
Harlin Glenroy Sisler

Bachelor of Science in Business Administration John Peter Hlas William Owen Little David Crum Rogers

Bachelor of Science in Bachelor of Science in Commerce Maurine Chapin Allen Samuel Crum Clarence Means Favinger Vincent Walter Godlesky Louis Frederick Hampel James Charles Neil Frederick A. Place, Jr.

Bachelor of Science in Secretarial Science Dora Vida Sapp

#### THE TEACHERS COLLEGE

Bachelor of Education

Jennie Hanson Adams
Rose Louise Ahern
Gertrude Cecilia Allen
Sara Geraldine Allen
Sara Beatrice Apel
Kathryn G. Armacost
Doris Elizabeth Baughman
Lillias Bishop Bissell
Ruth Esther Blank
Blanche E. Bolinger
Alice Close Bolton
Katie Braunstein
John Henry Bunnell
Anne Josephine Cardarelli John Henry Bunnell
Anne Josephine Cardarelli
Jennie H. Cardarelli
Bernice Ruth Christenson
Ruth M. Dorn
Paulyne Drabelle Emmons
Marguerite Minnick Enter
Dorothy Marie Ewing
Mary Louise Fischer
Mary Virginia Flanigan
Eldora Helen Flint
Jennie Fox
Virginia Wilcox Fox
Mabel Frase

Lucy Hadley
Dora Browne Hatfield
Ethel Marie Heepe
Roy Onis Hinch
Margaret Helen Hood
Carl Laurence Hopkins
Henry Luther Hosfield, Jr.
Olive Wilson Hurst
Elonet Amelia Hutz
Margaret Annabelle Jones
Thomas Edwin Jones
Haskell Harold Keep
Ruth Loretta Keifer
Ruth Edna Keller
Emily Virginia Kennedy
Dorothy Estell Kline
Leona Ruth Knabe
Louise Koegel
Lillian A. Koester
Marie J. Koester
Hamann Lyon
Dorothy Zoe McCallops
Mary Ervilla McCormick
Isabelle Allen McLean
Ethel Adalaide Moore
Vera Irene Morris
Janet E. Morrison
Pauline Orin
Mahala Jane Pees
Rhea G. Pfaff
Irene T. Poole
Bertha Blanche Poppenger
Florence C. Porter
Bessie Pyers
Alma Mary Reiter
Marie Louise Richards
Dorothy Chloral Sanderson
Katherine Sheinin
Edith Flay Shields
Anna Simpson
Anne Snyder
Harold L. Snyder
Charlotte Emma Steckhan
Doris Akers Stroman
Sarah Elizabeth Thompson
Mollie Toharsky
Muriel Hughes Walker
Pauline Lucille Watkins
Fanny Margaret Weber
Evelyn Maye Williams
Margaret Isabella Wilson
Margery Jane Winter
Ruth DuShane Young
Sister M. Helen, O. S. D.

Master of Arts in Education Gaynelle Lisle Hanna Mary Jane Hassenflue Harrison Allison Heskett John Paul McDowell Walter T. Swearengin

Master of Science in Education Kathryn Mary Andrus Clarkson J. Mayhew

Master of Education
Jane Sargent Barnhardt
Roy Thomas Daily
William J. Irwin
Lawrence D. Ricker
Marie Louise Richards

<sup>\*</sup>In Combination Arts-Nursing Course with Western Reserve University. †Honors Course Student.

# TEACHERS COLLEGE CERTIFICATES GRANTED IN JUNE, 1930

THREE-YEAR ELEMENTARY

Clara Black Virginia L. Emmons Mary Rife

# TWO-YEAR ELEMENTARY

Walter E. Bankes
Lorena E. Barnes
Edna R. Beaver
Dolores Dye
Helen B. Farnsworth
Elizabeth B. Grosh
Vesta Gladys Hall
Irene M. Harshbarger
Marian E. Koehler
Goldo M. Kunkel

Elizabeth MacGregor
Dorothy W. Lutz
Ruby F. Lynn
Martha J. Myers
Nellie Thornburg Porter
Grace M. Sorn
Juanita Sumtimer
Mabel A. Thompson
Ada L. Vaught
Margaret Woodburn

# ASSEMBLY SPEAKERS AND ENTERTAINERS 1930

January 10Mr. John G. Bucher, Bureau of Commercial Economics, Washington, D. C.
January 17Professor O. E. Olin-Founder's Day Address.
February 7Mr. Bennett Chapple, Advertising Manager, American Rolling Mill Co.—"Industry."
February 14Mr. Robert L. Ripley, cartoonist.
February 21Dr. Robert Parker Miles, "Tallow Dips."
February 28Senior Ashton Contest.
March 7Mr. Edward Tomlinson, Specialist on South American Affairs.
March 14Dr. John Milton Phillips, Pastor of the First Congregational Church, "What is a College Education?"
March 21Memorial Assembly for Dr. J. C. Rockwell-Mr. Clyde Beery and Mr. Fred Schnee,
March 28Count Von Luckner, "Experiences."
March 31 to April 4_Religious Emphasis Week, Speaker, Dr. Chester B. Emerson, Congregational Church of Detroit, Michigan.
April 18Dean F. E. Ayer, "Human Engineering."
April 25Mr. David Dietz, F. R. A. S., Journalist and Lecturer, Illustrated Talk.
May 2Mr. Harold Gaskill, '30, "The Courage of 1787."
May 9Dr. Franco Bruno Averardi, "Italy Today."
May 16Student Council sponsored a musical program.
June 6 Professor F. B. DeLeone.
June 15Dr. Joel Hayden, Baccalaureate Sermon, "Everett."
June 17Dr. Stephen S. Wise, Commencement Address, "The College as a Factor in American Education."
June 26Dr. Frank N. Freeman, University of Chicago.
July 3Akron Symphonic Orchestra.
July 10Dr. E. E. Lewis, Department of School Administration, Ohio State University, "Heightening the Morale of Teachers."
July 17Chalmers Art Trio,
July 24Hon. William John Cooper, U. S. Commissioner of Education, "Developing a Human Personality."
July 31
September 26Mr. Fred C. Kelly, Peninsula, Ohio, "Our Debt to the Stupid."
October 3Major John L. Griffith, "Athletics."
October 10William Oxley Thompson, President Emeritus of The Ohio State University.
October 17Student Council program.
October 24Attorney Robert Guinther, "Our Constitution."
October 31Dr. Bernard Fay, French author and Literateur, Exchange Professor, Kenyon College, "The United States of Europe."
November 7Mr. Chester M. Sanford, "You and Your Job."
November 14The University Musical Organizations.
November 21Dr. Harry F. Ward, "Our Economic Morality."
December 5Mr. Vachel Lindsay, American Poet.  December 12The University Band.
December 19Mr. Elwood T. Bailey, lecturer, "Full Speed Ahead."
December 19 Swood 1. Daney, lecturer, Fun Speed Anead."

# PRIZES AND HONORS

# ASHTON CONTEST PRIZES

No Junior and no Sophomore Contests in 1930. Senior Ashton Prize Contest, February 28, 1930. First Prize awarded to Louis F. Hampel. Second Prize to Rufus L. Thompson.

#### THE SENIOR ALUMNI PRIZE

The Senior Alumni Prize was awarded to Joseph Marion Rogers.

# THE TOMLINSON PRIZES

The Tomlinson Essay Prizes were awarded to the following students: Wallace H. Wulfeck, first prize; Norman Fisher, second prize.

HONORS COURSE STUDENTS IN THE CLASS OF 1930

John Bernard Lewis, in Latin and Greek; Thesis, "Greek and Roman Masiacs of the Classic Periods."

Ruth McNeil Sloan, in History; Thesis, "A Guide to American History Through the Civil War."

# HONOR GRADUATE IN RESERVE OFFICERS TRAINING CORPS UNIT IN 1930

Henry Reining.

THE INDIA RUBBER AND TIRE REVIEW SCHOLARSHIPS
Students of junior rank giving the most promise of successful careers in business and journalism:

First, Myrtelle Bendure; second, Richard Francis Booth, Jr.; third, Harold

R. Hunter.

### KAPPA DELTA PI PRIZE

Alpha Theta Chapter of Kappa Delta Pi prizes to a freshman and a sophomore in Teachers College:

Freshman prize awarded to Gladys Disler in 1930; no sophomore prize awarded.

# THE ELIZABETH A. THOMPSON CUP

The winners of the Tomlinson cup donated by Mrs. Irving Tomlinson in 1925 and known as The Elizabeth A. Thompson Cup are as follows:

1924-25, North High School 1925-26, Central High School 1926-27, West High School 1927-28, Central High School 1928-29, South High School 1929-30, Central High School

The Cup became the permanent possession of Central High School in 1930.

# THE JOHN R. BUCHTEL CUP

The awarding of the John R. Buchtel Cup was discontinued in 1929. It becomes the property of the University.

### THE LOOMIS CUP

The third Loomis Cup, donated by Mrs. J. P. Loomis, was won in 1925-26 by Central High School; in 1926-27 by North High School; in 1927-28 by Garfield High School; in 1928-29 by West High School; in 1929-30 by West High School.

### PHI SIGMA ALPHA

Students elected to membership in the Phi Sigma Alpha Fraternity in March, 1930, from the senior and junior classes were, in accordance with the rules: Seniors: Joseph Rogers, Howard M. Doutt, Ruth McNeil Sloan, John Lewis, Juliette Parenti, Charles Ufford, Louise Koegel, Nellie Croft, Ethel Wells Hollinger.

# Juniors: Priscilla Averell, Elizabeth Laudenbach.

### SIGMA TAU

The students elected to membership in Sigma Tau from the junior class of the Department of Engineering were Leland Fisher, William Woodward, Alan Buckley, Russell DeYoung, Eugene Falls, James Russell Moore, Ben Schroeder, Clifford Springston, Francis Stafford, Charles Walker.

### SIGMA PI EPSILON

Students elected to membership in Sigma Pi Epsilon from the class of 1930 in the Teachers College were Rose Louise Ahern, Dorothy Kline, Mary McCormick, Pauline Orin, Sarah Thompson.

# THE UNIVERSITY OF AKRON ALUMNI ASSOCIATION 1931-32 DIRECTORY

### OFFICERS OF THE GENERAL ASSOCIATION (1931-32)

President ......William Knowlton, '21
1st V.-Pres. .....Arbie Carlton, '17
Hon. Treas. .......Carl Stump, '25
Hon. Treas. .......Charles Bulger, '08
Secretary .......S. O. Schumacher, '27

# EXECUTIVE COMMITTEE

William Knowlton, '21; Arbie Carlton, '17; Carl Stump, '25; Dr. Charles Bulger, '08; C. R. Olin, '85; Mrs. William Fleming, '11 and the Alumni

#### ALUMNI BOARD OF TRUSTEES

Term expires June, 1932 J. Clarence Frank, '99 Miss Marion Voris, '14 K. Dolbeer Smith, '13 Rolland Fox, '21

Term expires June, 1933 Dr. E. B. Foltz, '96 Mrs. William Fleming, '11 Leroy Barnette, '14 Arthur Haley, '20

Term expires June, 1934
Frances C. Hottenstein, '21
Irene T. Jackson, '08
William Sawyer, '89
Don Var Punkink '24 Don VanBuskirk, '24

### ASSOCIATION BRANCHES

Chicago-President, Honor C. Fouch, '09, 4122 Grand Ave., Western Springs, Ill.

Cleveland—President, Harris W. Holsinger, '24, 819 Ulmer Bldg, Cleveland, O. Michigan—President, W. P. Putnam, '93, 554 Bagley Ave., Detroit, Mich. Pittsburgh—President, Robert Crist, '05, 408 Brilliant St., Aspinwall, Pittsburgh, Pa.

Southern California-President, DeForest Rood, ex. '17, 6904 Pacific Bldg., Huntington Park, Calif.

### THE ALUMNI ASSOCIATION

The Alumni Association is the official organization of alumni to advance the interests of the University through its graduates and former students, all of whom are members of the Association. Only those who have paid their dues are eligible to vote or hold office.

The officers are president, two vice-presidents, treasurer, and secretary. The Association is governed by a Board of Alumni Trustees composed of twelve alumni and the Association Officers elected by general vote. Subject to the approval of the Alumni Trustees, power to act for the Association is vested in an executive committee composed of the General Association officers, the treasurer of the University, and one member of the Alumni Trustees.

The three forms of membership dues in the Alumni Association are as

follows:

Annual dues and subscription to the Akron Alumnus \$2.00. Life Membership Pledge (paid in three installments of \$10 each) \$30.00.

Alumni Loyalty Bond (paid in five annual installments of \$10 each).

The first three installments on these \$50.00 bonds are paid to the Alumni Association in full payment of a life membership in said association and the last two installments are paid to the University of Akron to be applied on an Alumni Loyalty Fund in said University, to be used for capital investment or endowment purposes as the Board of Directors of the University may deem best.

Checks for dues should be made payable to the University of Akron Alumni Association.

The University has graduated 1,733 students. (Class of 1931 not included.)

### THE ALUMNI OFFICE

The Alumni Office, headquarters of the Alumni Association on the campus, is in charge of the Alumni secretary and is located in Phillips Hall. Here are kept all the records of the Association, files, biographical and historical data.

The secretary edits the Akron Alumnus, official publication of the Association, and the Alumni Register; has charge of Homecoming and Migration Days and assists in the celebration of Founder's Day. All alumni events at Commencement, the organization of alumni clubs, and alumni publicity work, are taken care of in the Alumni Office.

# INDEX

	age
Absences	
Addresses, Public210,	258
Administrative Officers	8
Admission:	
General Statement	7, 28
Buchtel College of Liberal Arts	54
College of Engineering and Commerce	
Evening Session	
Teachers College	
Summer Session—Teachers College	
Advanced Standing	
Akron Smith College Club Fellowship	
Alumni Association	
Application for Degree	
Appointment Bureau	209
Art133, 141, 147, 198, 210,	
Ashton Prizes 36,	
Assembly Speakers and Entertainers210,	
Athletics	
Auditors	
Bacteriology	
Band	
Bierce Library	24
Biology57-60, 119, 178, 212,	
Board of Directors	
Botany	
Buchtel College of Liberal Arts23, 52,	
Bureau of Student Employment	
Business Administration	
Calendars	
Certificate Courses136, 187, 191,	
Chemistry61, 119, 179, 212,	
City Testing Laboratory	
Civil Engineering	
Classical Archeology	
Classification	
College of Engineering and Commerce23, 100, 175, 187,	
Combination Courses24	
Commerce	
Commercial Teachers Course	
Committees of Board of Directors	8

	Page
Committees of Faculty	21
Community Co-operation	226
Comprehensive Examinations	41, 140
Co-operative Officers and Teachers of Akron Schools	20
Co-operative Work by the University	226
Co-operative Plan in Engineering	100
Co-ordination	119
Courses Leading to A.B. and B.S. Degrees	
Critic Teachers	20
Degrees Conferred in 1930	
Degrees:	
Buchtel College of Liberal Arts	42, 54
College of Engineering and Commerce	
Evening Session Credit	
Teachers College	
Departments of Instruction:	······································
Buchtel College of Liberal Arts	54, 57
College of Engineering and Commerce	
Evening Session	
Summer Session	
Teachers College	
Departments of the University	
Economics and Sociology	
Education	
Election of Subjects in Other Schools of the University	447 49
Electives—Buchtel College	
Electrical Engineering	
Elementary Teacher Training Course	
Elizabeth A. Thompson Cup	
Employment and Living Conditions	
Endowments	
Engineering Subjects	
Engineers' Work Calendar	
English Language and Literature	
Entrance at Mid-Year	
	29
Entrance Requirements: General Statement	0.0
Buchtel College of Liberal Arts	
College of Engineering and Commerce	
Evening Session	
Summer Session	
Teachers College	
Equipment	
Evening Session	18, 23, 169, 228
Faculty Committees and Representatives	
Faculty, General	
Failure	43

Fees and Tuition:	Page
General Statement, all Colleges and Se	
Graduation	
Laboratory	33
Late Registration	
Miscellaneous	
Fellows in Chemistry	
Fellowships	
Foltz Pre-Medical Prize	
Foundation	
Fred C. Kelly Prize	
French	
Freshman Studies	
Freshmen, Expense in Engineering Dept	107
Freshman Week	
Funds, Prizes, Scholarships and Honors	
General Information	
General Regulations	
Geography	
Geology	
German	
Glee Club	· · · · · · · · · · · · · · · · · · ·
Grading System	
Graduate Courses	
Greek	
Gymnasium Work	
Health Service	
Health and Physical Education	
High School Teachers Courses	
Historical Statement	
History	75. 182. 219
Home Economics	76. 141. 154. 182. 219
Home Study Courses—Engineering	
Honors Courses	
Honor Societies	
Honor Students	,
Incorporation of Buchtel College	
Industrial Engineering	
Industrial and Vocational Education	
Intelligence Tests	
Intercollegiate Sports	
Institutes—Evening Session	
Irregular Students	
Journalism	
John R. Buchtel Cup	
Katherine Claypole Fund	
Kindergarten-Primary Training	
Laboratory Fees	

	Page
Language and Literature	70
Late Registration Fee	34, 171
Latin	
Literature	
Library	
Living Conditions	
Loan Funds by Civic Organizations	38
Loomis Cup	37 950
Maintenance Fee	
Majors and Minors, Buchtel College	
Majors and Minors, Buchtel College	
Majors and Minors, Teachers College	142
Mathematics	
Mechanical Engineering	
Metallurgy	119
Methods and Teaching	152
Mid-Year Entrance	29
Military Science and Tactics	45, 47, 102
Minors	55, 142
Modern Languages	84, 184, 219
Music	34 50 144 156
Non-resident Students—Fees	32
Officers of Board of Directors	g
Orchestra	
Organ	
Outside Work-Co-operative Plan	
Philosophy	
Phi Sigma Alpha	39, 260
Physical Education	45, 87, 142, 161, 220, 227
Physics	
Piano	
Pixley Memorial Fund	
Platoon Schools	143
Political Science	91, 134, 185, 221
Practice Teaching	140, 209
Pre-medical Course	
Presidents of Buchtel College	52
Prizes	36
Prizes and Honors Awarded in 1930	
Probationary Students	
Psychological Tests	00.000
Psychology	
Public School Co-operation	
Public School Music	
Quality Requirement	
Refunds	
Register of Students	
Registration	
Regulations	42
Required Subjects for B.A. degree	54, 56
Required Subjects for B.S. degree	54. 56
Requirements for degrees	
Research	

		age
Reserve Officers' Training Corps		47
Resident Students—Fees		32
Rhetoric69	, 121, 181,	217
Rhodes Scholarship		39
Rubber Chemistry Fellowships		39
Rubber Chemistry		62
Saturday Classes	177	205
Schedule of Evening Classes	,	174
Schedule of Summer Classes		995
Scholarship Requirements for Entrance		26
Scholarship Loan Funds		36
Scholarship, Rhodes		39
Scholarship, Knodes	••••	39
Scholarships in Music		
Science Courses		
Second Degree		
Secretarial Science	103, 135,	196
Self Help		
Semester Hour		
Senior Alumni Prize	36,	259
Short Courses and Institutes		228
Shorthand		
Sigma Pi Epsilon	40.	260
Sigma Tau		
Sociology		
Spanish	85	184
Special Students		
Speech95		
State Requirements for Teaching	, 120, 100,	145
Standards	***************************************	140
Student Activities—Evening Session	01	170
Student Activities—Evening Session		
Student Activity Fee	•••••	32
Student Assistantships		30
Student Employment Bureau	••••	30
Student Teaching		
Summer Camp		
Summer Session		
Summary of Students		
Table of Contents		2
Teachers College20, 23, 139	, 176, 198	, 227
Teachers College Certificate, June 1930		257
Thesis		54
Theta Phi		40
Tomlinson Prizes and Cups	37	. 259
Tuition		
Two-Year Secretarial Course		
Typewriting		138
University Activities		21
University Activities	167	, 224
Violin		159
Voice		
Withdrawals	35	, 171
Wages, Engineering Department		101
Zoology		57

# THE UNIVERSITY OF AKRON AKRON, OHIO

# 1931 PUBLICATIONS

Annual Reports of President, Clerk, and Bureau of City Tests.

General Catalog.

Special Bulletins-

Buchtel College of Liberal Arts.

College of Engineering and Commerce.

Teachers College.

General Information.

Summer Session.

Evening Session.

For copies address: Miss Ethel E. Smith, Administration Office
The University of Akron
Akron, Ohio

# The

# UNIVERSITY OF AKRON

AKRON, OHIO

JUNE, 1931

COLLEGE OF ENGINEERING AND COMMERCE
1931 BULLETIN

WITH

ANNOUNCEMENTS FOR 1931-32



PUBLISHED BY
THE UNIVERSITY OF AKRON, AKRON, OHIO

# TABLE OF CONTENTS GENERAL INFORMATION

	Page
CALENDAR	
BOARD OF DIRECTORS	
Administrative Officers	
GENERAL FACULTY	
COMMITTEES OF THE FACULTY	17
GENERAL INFORMATION	
Foundation	
Departments	
Bierce Library	
Equipment	
Standards	21
Admission	A 12
Entrance Requirements	
Registration and Classification	
Psychological Tests	
EMPLOYMENT AND LIVING CONDITIONS	
FEES AND EXPENSES	27
Funds, Prizes, Scholarships and Honors	32
General Regulations	38
COLLEGE OF ENGINEERING AND COMMER	CE
GENERAL INFORMATION	41
Engineering	
Engineers' Work Calendar	46
Calendar for Co-operative Engineers	
Outline of Courses for Freshmen	48
Civil Engineering	
Electrical Engineering	52
Mechanical Engineering	54
Industrial Engineering	58
General Courses for Engineering Students	60
Commerce	
General Information	
Courses of Instruction	
General Courses for Commerce Students	74
SECRETARIAL SCIENCE	
General Information	76
Courses of Instruction	78
PHYSICAL AND MILITARY TRAINING	1000
Physical Education	80
Military Science and Tactics	82
Music	
INDEX	87

# UNIVERSITY CALENDAR

# 1931

Towns of Manager Class would resumed in all departments
JANUARY 5, MONDAYClass work resumed in all departments.
JANUARY 12-17, INCLUSIVEClassification for second semester, students in all day sessions except Co-operative Engineering.
JANUARY 16, FRIDAYObservance of Founder's Day (January 18).
JANUARY 26 TO JANUARY 31Final examinations.
JANUARY 29, 30 AND 31Classification for second semester for Co-operative Engineering students (Division B).
JANUARY 30 AND 31Registration and classification of new students FRIDAY, 9 A. M4 P. M. for second semester.  SATURDAY, UNTIL NOON
FEBRUARY 2, MONDAY, 5 P. MRegistration closes for new students except those re-entering or transferring from other colleges.
FEBRUARY 2 AND 3Classification of Division A, Co-operative Engineering students.
FEBRUARY 3, TUESDAYFreshman Program. Last day for payment of fees without penalty of late registration fee.
February 4, WednesdayClass work begins for all day sessions.
FEBRUARY 5, 6, AND 7Registration and classification for Evening Ses- THURSDAY, FRIDAY AND sion. SATURDAY, 9 A. M9 P. M.
FEBRUARY 9, MONDAYClass work begins for Evening Session.
MARCH 28, SATURDAYEaster recess begins. 12:00 Noon
April 6, MondayClass work resumed.
APRIL 13, MONDAYFinal classification of Co-operative Engineering students (Division B).
MAY 29, FRIDAYTree Day.
MAY 30, SATURDAYMemorial Day-a holiday.
JUNE 8-13Final examinations.
JUNE 14, SUNDAYBaccalaureate exercises.
JUNE 16, TUESDAYCommencement.

JUNE 22, MONDAYRegistration and classification for Summer Session in Teachers College and Co-operative Engineering (Division B).
June 23, TuesdayClass work begins in Summer Sessions.
JULY 20, MONDAYClassification for Summer Session in Co-operative Engineering (Division A).
JULY 31, FRIDAYSummer Session in Teachers College closes.
August 15, SaturdaySummer Session for Co-operative Engineers closes
August 17, MondayRegistration and classification begins for fall semester for new resident and non-resident students in all departments of the day session.
September 8, TuesdayRegistration and classification closes for new Students, except those transferring from other colleges.
SEPTEMBER 8-11, INCLUSIVEFreshman Week, compulsory for all Freshmen entering in September, 1931.
SEPTEMBER 11 AND 12Registration and classification for upper-class- FRIDAY, 8:30 A. M. TO men in all departments (Divisions A and B for Co-operative Engineers).  SATURDAY, 8:30 A. M. TO 4:30 P. M. AND 7-9 P. M.
September 14, Monday
September 24, 25, and 26Registration and classification for Evening Ses- Thursday, Friday and sion. Saturday, 9 a. m9 p. m.
SEPTEMBER 28, MONDAYClass work begins in Evening Session.
OCTOBER 2, FRIDAYGeneral Student Election.
NOVEMBER 16, MONDAYFinal classification of Co-operative Engineering students (Division B).
NOVEMBER 17, TUESDAYClass work begins for Co-operative Engineering students (Division B).
November 26, 27 and 28Thanksgiving Recess. Thursday, Friday and Saturday
DECEMBER 19, SATURDAY

# 

1932
JANUARY 4, MONDAYClass work resumed in all departments.
JANUARY 11-16, INCLUSIVEClassification for second semester, students in all day sessions except Co-operative Engineering students in Division A.
JANUARY 18, MONDAYObservance of Founder's Day.
JANUARY 25 to JANUARY 30Final examinations.
January 28, 29 and 30Classification for second semester of Co-operative Engineering students (Division B).
JANUARY 29 AND 30
FEBRUARY 1, MONDAY, 5 P. MRegistration closes for new students except those re-entering or transferring from other colleges.
FEBRUARY 1 AND 2Classification of Co-operative Engineering students (Division A).
FEBRUARY 2, TUESDAYFreshman Program. Last day for payment of fees without penalty of late registration fee in day sessions.
FEBRUARY 3, WEDNESDAYClass work begins for all day sessions.
FEBRUARY 4, 5 AND 6Registration and classification for Evening Ses- THURSDAY, FRIDAY AND sion. SATURDAY, 9 A. M9 P. M.
FEBRUARY 8, MONDAYClass work begins for Evening Session.
March 19, SaturdayEaster recess begins. 12:00 Noon
MARCH 28, MONDAYClass work resumed.
APRIL 11, MONDAYFinal classification of Co-operative Engineering students (Division B).
MAY 27, FRIDAYTree Day.
MAY 30, MONDAYMemorial Day—a holiday.
JUNE 6-11Final examinations.
June 12, SundayBaccalaureate exercises.
JUNE 14, TUESDAYCommencement.
JUNE 20, MONDAYRegistration and classification for Summer Session in Teachers College and Co-operative Engineering (Division B).
JUNE 21, TUESDAYClass work begins in Summer Sessions.
July 18, MondayClassification for Summer Session in Co-operative Engineering (Division A).
July 29, FridaySummer Session in Teachers College closes.
August 13, SaturdaySummer Session in Co-operative Engineering closes.

# THE UNIVERSITY OF AKRON

# BOARD OF DIRECTORS

1. C II		
J. Grant Hyde		
B. A. Polsky	Term expires 1932	
John W. Thomas	Term expires 1932	
P. W. LITCHFIELD	Term expires 1934	
George T. Rankin (Died, May, 1931)	Term expires 1934	
Hurl J. Albrecht	Term expires 1934	
CLETUS G. ROETZEL	Term expires 1934	
L. E. Judd	Term expires 1936	
Mrs. T. A. Chittenden	Term expires 1936	
James W. Schade	Term expires 1936	
OFFICERS FOR 1931		
John W. Thomas	Chairman	
B. A. Polsky	Vice-Chairman	

# 

Committee on Finance: Polsky, RANKIN, SCHADE.

Committee on Investment: Hyde, Judd, Mrs. Chittenden.

Committee on Buildings and Grounds: THOMAS, LITCHFIELD, ROETZEL.

# ADMINISTRATIVE OFFICERS OF THE UNIVERSITY 1930-31

GEORGE F. ZOOK, PH. DPresident of the University
CHARLES R. OLIN, M. SSecretary of the University
MAXWELL P. Boggs, A. B
GLADYS P. WEEKS
OSCAR E. OLIN, LL. DVice-President of the Faculty
Albert I. Spanton, A. MDean of Buchtel College of Liberal Arts
FRED E. AYER, C. EDean of the College of Engineering and Commerce
W. J. BANKES, A. MDean of Teachers College
ELIZABETH A. THOMPSON, A. MDean of Women
Donfred H. Gardner, A. M
Frederick S. Sefton, M. Ed
JOSEPHINE A. CUSHMAN, B. L. S. Librarian
LOWELL L. HOLMES, M. A
U. S. VANCE, A. B
R. H. Schmidt, A. M
SHERMAN O. SCHUMACHER, A. B
WILBUR C. ROBART, M. D

# GENERAL FACULTY AND OFFICERS OF INSTRUCTION 1930-1931

GEORGE FREDERICK ZOOK, President of the University
A. B., A. M., University of Kansas; Ph. D., Cornell University, 1914.
265 Merriman Road

#### **PROFESSORS**

JOHN ADENDORFF, Professor of Industrial Engineering M. E., Cornell University, 1907.

346 Union Place

Fred. E. Ayer, Dean of the College of Engineering and Commerce C. E., Lafayette College, 1900.

Tallmadge, Ohio

WALTER J. BANKES, Dean of Teachers College
A. M., Clark University. Graduate study, Clark University, 1914-15.
Portage Point Drive, R. D. Barberton, Ohio

CHARLES BULGER, Hilton Professor of Modern Languages

Ph. B., Buchtel College; A. M., University of Wisconsin, Ph. D., 1925. Nine
months at Goettingen and Heidelberg Universities.

74 Mayfield Avenue

Oral Eugene Clark, Professor of Military Science and Tactics
Graduate, Infantry School, Fort Benning, Ga., 1923; The Command and General
Staff School at Fort Leavenworth, Kan., 1929. Major, Infantry, U. S. A. (D. O. L.).
411 Hillwood Drive

EARL WILLIS CRECRAFT, Professor of Political Science
Ph. B., Franklin College; A. M., Columbia University, Ph. D., 1915.
688 East Buchtel Avenue

WILLIAM LLOYD DAVIS, Professor of Economics and Sociology

Ph. B., University of Wisconsin, Ph. D., 1922. Graduate study Harvard University, 1923-24; two six-weeks Summer Sessions at Columbia University, 1926 and 1927.

391 Mell Avenue

Francesco B. DeLeone, *Director of Music*M. Mus., Royal Conservatory of Naples; Honorary degree, Dana's College of Music, Warren, Ohio.

585 Delaware Avenue

Ross C. Durst, Professor of Civil Engineering
B. S. in C. E., Ohio Northern University, 1915, C. E., 1922.
1995 Germaine Ave., Cuyahoga Falls, Ohio

WALTER A. GILMOUR, Professor of Co-ordination B. S. in C. E., Norwich University, 1914.

861 Aberdeen Street

FRED S. GRIFFIN, Professor of Mechanical Engineering M. E., Ohio State University, 1911.

157 Marvin Avenue

GEORGE L. HAYES, Professor of Psychology

M. Ed., Edinboro State Normal College; Ph. B., Ohio University; LL. B., Ohio Northern University; A. M., University of Pittsburgh, Ph. D., 1921.

348 North Firestone Blvd.

DONALD HAYWORTH, Professor of Speech
A. B., Grinnell College; A. M., University of Chicago, 1921; Ph. D., University of Wisconsin 1929.

283 East Buchtel Avenue

FRED F. HOUSEHOLDER, Professor of Physics

B. A., University of Wisconsin, M. A., 1916. Graduate study, Iowa State College, 1917; University of Wisconsin 1916, 1917, 1921; University of Chicago, 1922.

1209 Berwyn Street

JOHN L. JONES, Ainsworth Professor of Mathematics
Ph. B., Lafayette College; M. A., Yale University, Ph. D., 1911.
2318 16th Street, Cuyahoga Falls, Ohio

CHARLES M. KNIGHT, Professor Emeritus of Chemistry A. M., Tufts College; Sc. D., Buchtel College, 1897.

583 Weber Avenue

EMERY L. KUHNES, Professor of Education

B. S., Upper Iowa University; Pd. M., New York University, Ph. D., 1915. Graduate study, University of Chicago, 1919.

751 Mercer Avenue

WARREN W. LEIGH, Professor of Commerce and Business Administration
B. A., University of Utah; M. B. A., Northwestern University, 1924. Graduate study, Northwestern University, 1924-26, and Summers of 1929 and 1930.

84 Casterton Avenue

ELSIE MAY MAXWELL, Professor of Home Economics

B. S., Teachers College, Columbia University; M. A., University of Chicago, 1928.

CHARLES R. OLIN, Secretary of the University B. S., Buchtel College, M. S., 1909.

51 Melbourne Avenue

396 East Market Street

‡OSCAR E. OLIN, Messenger Professor of Philosophy, and Vice President of the Faculty
A. M., Kansas State Agricultural College; LL. D., The University of Akron, 1920.

RAYMOND B. PEASE, Professor of English

B. A. University of Wisconsin; A. M., Harvard University; Ph. D., Wisconsin, 1921; Summer Quarter, 1923, University of Chicago.

AMON B. PLOWMAN, Professor of Biology

B. S., Ohio Wesleyan University; A. M., Harvard University, Ph. D., 1905.

596 Greenwood Avenue

FREDERICK S. SEFTON, Professor of Physical Education
B. S., Colgate University; M. Ed., Harvard University, 1925.

589 Sunset View Drive

HEZZLETON E. SIMMONS, Buchtel Professor of Chemistry
B. S., Buchtel College; M. S., University of Pennsylvania, 1912.

331 Beechwood Drive

Albert I. Spanton, Pierce Professor of English and Dean of Buchtel College of Liberal Arts

A. B., Buchtel College; A. M., Harvard University, 1905.

625 Weber Avenue

\*ELIZABETH A. THOMPSON, Professor of History, and Dean of Women
A. M., The University of Akron, 1911.

283 East Buchtel Avenue

<sup>\*</sup>Deceased March 30, 1931. ‡Retired June, 1931.

JOHN T. WALTHER, Professor of Electrical Engineering B. S. in E. E., University of Michigan, 1909.

384 Reed Avenue

ARTHUR M. YOUNG, Professor of Latin and Greek
A. B., A. M., Harvard University, Ph. D., 1930.
1517 Chestnut Blvd., Cuyahoga Falls, Ohio

#### ASSOCIATE PROFESSOR

CARY C. WOOD, Associate Professor of Educational Psychology B. S., Ohio University; A. M., Columbia University, Ph. D., University of Cincinnati, 1928.
372 Madison Avenue

### ASSISTANT PROFESSORS

Donald E. Anthony, Assistant Professor of Economics
B. A., Stanford University; M. A., Cornell University; Ph. D., Stanford, 1928.

37 Aqueduct Street

JANE S. BARNHARDT, Assistant Professor of Art B. E., The University of Akron, 1928; M. Ed., 1930.

486 Roslyn Avenue

HARRY A. BENDER, Assistant Professor of Mathematics
A. B., Ohio University; A. M., University of Illinois, Ph. D., 1923.
931 Stadelman Avenue

HOWARD H. BLAIR, Assistant Professor of Physical Education B. S., Ohio State University, 1923; A. M., Columbia University, 1927. 1416 Delia Avenue

JOHN W. BULGER, Assistant Professor of Civil Engineering B. C. E., Ohio State University, 1918.

368 Sherman Street

.WALTER A. COOK, Assistant Professor of Chemistry B. A., University of Cincinnati, M. A., 1922, Ph. D., 1924.

382 East York Street

HARMON O. DEGRAFF, Assistant Professor of Sociology
B. A., M. A., University of Iowa; Ph. D., University of Chicago, 1926.
429 East Buchtel Avenue

ELMER ENDE, Assistant Professor of Organ and Theory of Music

B. Mus., American Conservatory of Music, Chicago, 1915; M. A., Ohio State University, 1930.

724 Crosby Street

HOWARD R. EVANS, Assistant Professor of Education

A. B., Indiana State Teachers College; M. A., Teachers College, Columbia University; Ph. D., Northwestern University, 1930.

283 East Buchtel Avenue

ROLLAND D. Fox, Assistant Professor of Bacteriology

B. S., The University of Akron, M. S., 1923; Director of the Division of Laboratories, Akron Health Department.

499 Malvern Road

Donfred H. Gardner, Assistant Professor of History, and Dean of Men A. B., Princeton University, 1922, A. M., 1923.

841 Merriman Road

RUSSELL J. GREENLY, Assistant Professor of Industrial Teacher Training B. S., Pennsylvania State College, 1930.

455 Letchworth Drive

- LOWELL L. HOLMES, Director of the Evening Session, and Assistant Professor of Commerce and Business Administration
  - S. B. in Engineering Administration, Massachusetts Institute of Technology; M. A. in Economics, University of Pittsburgh, 1930.

    453 Malvern Road
- FLORA J. HOOVER, Assistant Professor of Education

  B. A., Michigan State Normal College, 1920. Graduate study, The University of Akron, 1923-24; Michigan State Normal College, six-weeks Summer Session.

  Taylor Hotel
- WALTER C. KRAATZ, Assistant Professor of Zoology
  B. A., University of Wisconsin; M. A., Ohio State University, Ph. D., 1923.

  957 Mercer Avenue
- HAROLD T. McKee, Assistant Professor of Business Administration

  B. S., University of Pittsburgh, M. A., 1929.

  525 Roslyn Avenue
- LEROY C. McNabb, Assistant Professor of Speech, and Director of Dramatics B. S., Lebanon University; B. A., Ohio Wesleyan, M. A., 1925; Cornell University, 1928-30 toward Ph. D.
- MARJORIE MITCHELL, Assistant Professor of English, and Personnel Adviser for Women
  - A. B., Western Reserve University; A. M., Radcliffe College, 1923; six-weeks Summer Session, University of Chicago, 1924; six-weeks Summer Session at Columbia University, 1929, and the year 1929-30.
- LEWIS S. NORMAN, Assistant Professor of Military Science and Tactics
  LL. B., Chattanooga College of Law, 1917. Captain, Infantry, U. S. A. (D. O. L.).

  466 Hillwood Drive
- RUSSELL L. PACKARD, Assistant Professor of Geography
  B. S., B. A., Kent State College; M. A., The University of Akron, 1927; Ph. D.,
  University of Cincinnati, 1930.

  1932 South Front Street, Cuyahoga Falls, Ohio
- KATHARINE M. REED, Assistant Professor of Modern Languages
  B. A., Newcomb College; M. A., Tulane University; six-weeks Columbia University; three months at the Sorbonne, Paris, 1925-26.

  900 Elmore Avenue
- AIMAR H. ROLLEFSON, Assistant Professor of Physics
  B. A., M. A., University of Wisconsin, Ph. D., 1928; Symposium on Theoretical Physics (eight weeks), University of Michigan, 1929.

  The University Club
- Ernest F. Schaffer, Director of Testing Laboratory, and Assistant Professor of Chemistry
  - B. E. M., Ohio State University.

590 Vinita Avenue

- RICHARD H. SCHMIDT, Assistant Professor of Chemistry, and University Examiner
  - A. B., Wesleyan University; M. A., Columbia University, 1915; graduate study at Columbia, 1915-16 and Summer Session of 1930.

    Liberty Road, Stow, Ohio; P. O., R. D. 3, Kent, Ohio

- SAMUEL SELBY, Assistant Professor of Mathematics
  - A. B., University of Manitoba, A. M., 1926; Ph. D., University of Chicago, 1929. 214 North Portage Path
- ROY V. SHERMAN, Assistant Professor of Political Science
  - A. B., State University of Iowa, A. M., 1926, Ph. D., 1927.
    283 East Buchtel Avenue
- RODNEY A. SLAGG, Assistant Professor of Botany
  - B. A., University of Wisconsin, M. S., 1924, Ph. D., 1930.

404 Mell Avenue

- HARRY A. SMITH, Assistant Professor of Physical Education
  - B. E., The University of Akron, 1928, M. Ed., 1929.

898 Peckham Street

ROBERT E. SWAB, Assistant Professor of Military Science and Tactics

Graduate of Infantry School, Fort Benning, Ga.

567 Aqueduct Street

CLARENCE R. UPP, Assistant Professor of Mechanical Engineering

M. E., Ohio State University, 1910.

888 Oakland Avenue

#### INSTRUCTORS

DAVID E. ANDERSON, Instructor in Chemistry

A. B., Augustana College; M. S., University of Chicago, 1923.

900 Portage Trail, Cuyahoga Falls, Ohio

- RENA NANCY CABLE, Instructor in Art
  - B. E., The University of Akron, 1928; Summer Session of six weeks at Columbia University; Harvard Summer Session, 1930. 473 East Buchtel Avenue
- J. GARFIELD CHAPMAN, Part-time Instructor in Violin

Director of the Violin Department, The Cleveland School of Music since 1900. 3101 Prospect Avenue, Cleveland, Ohio

SAMUEL GRANT CONNER, District Apprentice Co-ordinator in Industrial Teacher

Training B. S., Pennsylvania State College, 1929.

425 Letchworth Drive

- BEATRICE S. Counts, Instructor in Home Economics
  - A. B., Ohio Wesleyan; B. S., Simmons College; M. S., Teachers College, Columbia University, 1926. 607 East Buchtel Avenue

HOWARD M. DOUTT, Head of the Department of Secretarial Science, and Parttime Instructor

A. B., The University of Akron, 1930.

1921 Goodyear Blvd.

- SARAH E. DUNCKLEY, Director of Physical Education for Women
  - Graduate, Arnold College of Physical Education and Hygiene, 1915; B. S., The University of Akron, 1923. 390 Berry Avenue
- MAXINE M. DYE, Instructor in Speech
  - A. B., Penn College, 1927; M. A., University of Wisconsin, 1930.

MARGARET FLORENCE FANNING, Instructor in Modern Languages

A. B., The University of Akron; A. M., Radeliffe College, 1926; graduate study, University of Toulouse, France, 1926-27.

1241 Delia Avenue

ELDORA FLINT, Instructor in Secretarial Science B. E., The University of Akron, 1930.

1130 Avon Street

OMER R. FOUTS, Instructor in Physics

A. B., Wittenberg College; A. M., Ohio State University, 1925; Ohio State University, Summer Quarter, 1927; Summer Sessions at the University of Michigan, 1928, 1929 and 1930. 741 Noble Avenue

Rose E. Goodman, Instructor in Mathematics

A. B., Otterbein College; A. M., Ohio State University, 1927.

1154 Johnston Street

EUGENE GEORGE HAAS, Instructor in Chemistry

B. S., The University of Akron, 1920; M. S., The University of Toronto, 1922. 25 Franklin Street

MERLIN L. HAYES, Assistant in Biology

B. E., The University of Akron, 1929, A. B., 1930.

348 North Firestone Blvd.

ROSALIND FREEDLANDER IRISH, Instructor in English

B. S., in Home Economics and B. A., The University of Akron; A. M., Columbia University, 1924. 46 Fifth Avenue, Barberton, Ohio

JOHN A. KELLEY, Instructor in Modern Languages

B. A., Lawrence College, 1926; M. A., University of Wisconsin, 1927.

275 South Main Street

CLARA M. KEMLER, Director of Kindergarten-Primary Training

A. M., Wittenberg College; Summer Session at University of Chicago, 1928.

DAVID KING, Instructor in Political Science

A. B., Maryville College; A. M., University of Chicago, 1925; University of Chicago, 1926-27 and Summer Sessions of 1928, 1929 and 1930.

STEVE KISH, Instructor in Military Science and Tactics Sergeant, U. S. A. (D. E. M. L.).

1173 East 87th Street, Cleveland, Ohio

ELIZABETH A. LATHROP, Instructor in Home Economics B. S., Columbia University, 1926, A. M., 1927.

186 South Union Street

JULIA REGER LEIGH, Instructor in Mathematics

B. A., University of Iowa, M. S., 1926; six-weeks Summer Session at University of Chicago.

84 Casterton Avenue

WALTER CONRAD LIPPS, Instructor in Physical Education

B. E., The University of Akron, 1928.

528 Brown Street

MISS WILL H. LIPSCOMBE, Instructor in Mathematics

B. S., Florida State College; M. S., Ohio State University, 1926; one Summer Session at the University of Michigan. 996 Dayton Street

CARITA McEbright, Instructor in Speech

A. B., Cornell University, 1887; Emerson College of Oratory, 1895; American Academy of Dramatic Art, New York, six weeks, 1924; Columbia College of Oratory, two four-weeks Summer Sessions on Shakspere with Robert Mantell, 1925 and 1926.

396 East Market Street

RUTH K. McPeake, Part-time Instructor in History A. B., The University of Akron, 1928.

715 West Market Street

FRANK J. S. MATURO, Instructor in Spanish

A. B., Mount Union; M. A., Columbia University, 1923; candidate for Ph. D. degree at George Peabody College for Teachers. 355 Firestone Blvd.

HENRY METZGER, Instructor in Military Science and Tactics Master Sergeant, U. S. A., Retired.

307 Grace Avenue

LUTHER A. PARK, Part-time Instructor in Commerce and Business Administration

A. B., Roanoke College; A. M., University of Pennsylvania, 1915; Summer Sessions at the University of Michigan and University of Chicago. 889 Fried Street

THEODORE HANFORD POND, Instructor in Art Attended Pratt Institute.

Route 8, Akron, Ohio

RUTH MARGUERITE RAW, Instructor in English

A. B., A. M., Hiram College; A. M., Columbia University, 1924; Summer Sessions at University of Washington, 1927 and 1929. 317 Rhodes Avenue

GENEVIEVE RIDER, Instructor in Public School Music B. M. Ed., Northwestern University, 1925.

135 South Union Street

EDGAR C. ROBERTS, Instructor in English B. S. in Educ., Ohio State University, M. A., 1924; Summer Sessions at Ohio State University, 1928, 1929 and 1930.

FRANCIS J. SADLIER, Director of Glee Clubs, Part-time Instructor in Voice Metropolitan School of Opera, New York; Certificate, Royal High School of Music, Berlin, Germany. 1523 East Boulevard, Cleveland, Ohio

RUTH MCNEIL SLOAN, Part-time Instructor in History and Secretarial Science A. B., The University of Akron, 1930. 62 Metlin Avenue

PAUL C. SMITH, Instructor in Electrical Engineering B. S. in E. E., Purdue University, 1917.

179 Ido Avenue

NELSON S. SNYDER, Instructor in Education

A. B., Mount Union College; A. M., The University of Akron, 1927; Summer Session at Ohio State University, 1928. 1214 16th Street, N. W., Canton, Ohio

ELIZABETH D. STEVENSON, Instructor in English

B. A., University of Pittsburgh; M. A., Columbia University, 1929.

105 South Balch Street

CLIFFORD STICKNEY, Instructor in English

B. A., University of Illinois, 1923, M. A., 1928.

Route 4, Akron, Ohio

WILLIAM E. STRASSNER, Part-time Instructor in Band and Voice
Round Lake Summer Sessions; Chicago Musical College; Skidmore School of Arts;
DeReszki-Seagle School; Director of Thayer Military Band since 1923.

703 4th Street, N. W., Canton, Ohio

Audra Tenney, Part-time Instructor in Secretarial Science, and Secretary to the University Examiner

A. B., The University of Akron, 1926.

754 Glendora Avenue

WARD L. TINKLEPAUGH, Instructor in Commerce and Business Administration
B. S. in Bus. Adm., Syracuse University, 1926; graduate study at Syracuse and
New York Universities.

275 South Main Street

ULYSSES S. VANCE, Instructor in Journalism, and University Editor

A. B., State University of Iowa, 1923.

232 Oakdale Avenue

RALPH M. VAN METRE, Instructor in Business Administration

B. S. in Bus. Adm., Ohio State University, 1929.

115 Hamilton Avenue

EARL R. WILSON, Instructor in Engineering Drawing

B. M. E., Ohio State University, 1916.

1026 Marion Place

### LIBRARY STAFF

JOSEPHINE A. CUSHMAN, Librarian

Ph. B., The University of Akron; B. L. S., University of Illinois.

517 Crosby Street

ETHEL S. KLAHRE, Assistant Librarian

A. B., The University of Akron, 1927; B. S. in L. S., Western Reserve University, 1928; graduate study at Columbia University Summer Session in 1929.

881 Berwyn Street

MATILDE LOWERY, Assistant Librarian

B. L. S., Carnegie Library School, Pittsburgh, Pa., 1930.

506 Crosby Street

VIVIEN McCARTHY SUTTON, Assistant Librarian

Certificate, Tuscarawas County Normal School, 1923; Diploma, Chautauqua School for Librarians, 1927.

180 North Portage Path

NORMA RUTH OLIN, Assistant Librarian

A. B., The University of Akron; B. S. in L. S., Western Reserve University, 1929.

662 Weber Avenue

FRANCES CLARK, Assistant in the Library

1651 Battery B

#### REGISTRAR'S STAFF

GLADYS P. WEEKS, Registrar

Two years, The University of Akron.

565 East Buchtel Avenue

EBBA LARSON, Assistant Registrar

655 East Buchtel Avenue

JEANNE COHEN, Assistant

Student, The University of Akron.

45 Borton Avenue

#### GENERAL INFORMATION

#### FELLOWS IN CHEMISTRY

ARTHUR W. Dobberstein, B. S., South Dakota State College.

The B. F. Goodrich Company

ROBERT S. McFadden, A. B., University of Denver
The Goodyear Tire and Rubber Company

HAROLD B. MORRIS, B. S., Gettysburg College
The Firestone Tire and Rubber Company

### ASSISTANTS

FRANCIS HOLMES, Assistant in the Department of Physical Education
1222 Florida Avenue, Kenmore Station

CHARLES LEWIN, Assistant in Testing Laboratory
2171 10th Street, S. W., Kenmore Station

FRANK H. NEWTON, Student Assistant in the Testing Laboratory, Summer of 1930.

367 Carroll Street

SAM OSTROFF, Part-Time Instructor in Accounting

212 East Crosier Street

THOMAS E. VAN SICKLE, Student Assistant in Biology

455 Hickory Street

BETTY WASHBURN, Assistant in Physical Education

329 East Buchtel Avenue

# OTHER PART-TIME INSTRUCTORS AND LECTURERS

1930 SUMMER SESSION (not on the regular Day Session staff).

E. D. BATES, A. M., Instructor in Education

Principal of David Hill School

MAXWELL P. Boggs, A. B., Instructor in Economic Geography

CHARLES E. BRYANT, A. B., Instructor in Education

Principal of South High School

FRANK H. CLOSE, PH. B., Instructor in Education
Superintendent of Schools, Wadsworth, Ohio

CHARLES W. COOKSON, A. M., Instructor in Education
Superintendent of Schools, Urbana, Ohio

#### THE UNIVERSITY OF AKRON

Russell H. Erwine, A. M., Instructor in Education

Assistant Superintendent of Akron Schools

C. A. FLICKINGER, Instructor in Education

Superintendent of Summit County Schools

MARIE L. HANLEY, Instructor in Reading Methods

A. D. LADD, PH. B., Instructor in Education

Principal of Garfield High School

U. L. LIGHT, A. B., Instructor in Education

Superintendent of Barberton Schools

M. M. PROFFITT, A. M., Instructor in Education

Specialist in Industrial Education, U. S. Office of Education

ADA B. WEYER, Instructor in Beacon Reading

EVENING SESSION, 1930-31 (not on the regular Day Session staff).

H. E. AMMERMAN, Instructor in Salesmanship A. B., Franklin and Marshall Colleges.

513 Vinita Avenue

CLARA BARKER, Instructor in Art

800 Roslyn Avenue

F. J. BAILEY, Instructor in Mathematics
M. E., and M. S. in Electrical Engineering, Bucknell College
471 Beechwood Drive

G. W. DAVERIO, Instructor in Accounting
B. S. in Bus. Admin., Ohio State University.

833 Orlando Avenue

EDMUND BURROUGHS, Instructor in Real Estate Law A. B., Oberlin College; LL. B., Harvard.

206 Sunset View Drive

JEANNE COHEN, Instructor in Business English Student, The University of Akron.

45 Borton Avenue

GIRARD V. DONLEY, Instructor in Psychology, Philosophy and Comparative Religion

A. B., Hiram; B. D., Oberlin College.

Tallmadge, Ohio

R. H. ERWINE, Instructor in Education

B. L., Ohio Wesleyan; M. A., Wittenberg College.

803 Bloomfield Avenue

C. W. HALL, Instructor in Real Estate

M. A., Yale University.

627 West Market Street

MRS. DONALD HAYWORTH, Instructor in Spanish

A. B., Westminster College; M. A., Wisconsin.

283 East Buchtel Avenue

OSCAR A. HUNSICKER, Instructor in Business Law

B. A., University of Akron; LL. B., Western Reserve Law School.

217 Kenwick Drive

OLGA JOHNSON, Instructor in Typing

Three-year Diploma, State Teachers College, Whitewater, Wisconsin.

160 Fir Street

NAT LEWERS, Instructor in Advertising

1203 Lexington Avenue

FRANK MOORE, Instructor in Industrial Arts

A. B., University of Michigan.

Cleveland, Ohio

THOMAS M. Powers, Instructor in Business Law

A. B., Cornell University; LL. B., Cleveland Law School.

University Club

J. J. SPEARMAN, Instructor in Investments

B. S., Grove City College; M. B. A., Harvard.

496 Roslyn Avenue

LEWIS C. TURNER, Instructor in Business Speaking

A. B., Hiram College; M. Ed., The University of Akron, 1929.

795 Roslyn Avenue

MARIE WAKEFIELD, Instructor in Shorthand

B. A., Illinois Wesleyan.

439 Roslyn Avenue

RUTH WHORL, Instructor in Art

B. S. in Education, Ashland College. One summer at Boothbay Studio, Boothbay, Me.; student at School of Applied Art and Design, New York City; and Snow-Froehlich School of Industrial Art, Chicago.

53 Harcourt Drive

# PUBLIC SCHOOL OFFICERS AND TEACHERS CO-OPERATING WITH THE TEACHERS COLLEGE

THOMAS W. Gosling, Ph. D. .....Superintendent of Schools

# CRITIC TEACHERS

CRITIC TEACHERS	
M. A. A. D. D. D.	School
MINA L. ADAMS, PH. B.	
Mrs. Jennie H. Adams, B. E.	
W. E. Anderson, B. A.	
Lois Babb, Ph. B.	
CLARA BARKER	
HILDA BERGLUND, B. S.	
ELEANORE BOWMAN, M. A.	
RUTH BRADLEY, B. E.	
MRS. BLANCHE BRADY, PH. B.	
C. E. Butcher, B. S. in Com.	West High
HARRIET CALLOW, B. S.	Hotchkiss
LEONORE EMRICK, B. S. in Ed	
MARY FINNEY, B. A.	
A. J. Gerber, M. A.	
MARIAN HARDING, B. S. IN Ed.	
EDITH HARRIS, PH. B.	South High
H. M. Horst, Ph. B.	West High
Mrs. Ercell S. Hudgins, B. A.	
ROBERT B. JONES, B. Ed	Highland
VESTA LEIGHT	Leggett
WILLIAM LOEBER	
GENEVA MCCOID. B. A.	
NADINE MICHAEL, B. A.	
BURNICE MOORE, B. Mus.	
JANET MORRISON, B. E.	
Lydia Oberdeck, B. A.	
GLADYS PARSHALL, A. B.	
INEZ PARSHALL, A. B.	Central High
STELLA POTSCHNER, B. Ed.	
PAUL PUGH, B. S. IN CHEM. E.	Garfield High
HARRY E. REED, B. A.	South High
Mrs. Grace Richardson, B. S.	
L. D. RICKER, M. Ed.	East High
MRS. RUTH D. SAMPSON, M. Ed.	
Mrs. Evelyn R. Sills	Music Methods
Mrs. Velma P. Smith, B. E Elsa Shaffer, B. E	
MABEL TODD, B. A.	
MABEL TODD, B. A	
Mrs. Dorothy Q. Waldsmith, A. B.	Croche
George F. Weber, A. B.	Kina
RUTH WHEELER, B. S.	
D. B. Zook, M. A. IN Ed	
•	•

# COMMITTEES OF THE GENERAL FACULTY 1930-31

Executive: ZOOK, O. E. OLIN, SPANTON, AYER, BANKES, SIMMONS, WEEKS (Secretary).

Admissions and Advanced Standing: SCHMIDT, SPANTON, AYER, BANKES, GARDNER, MITCHELL.

Classification: Buchtel College of Liberal Arts—Charles Bulger and Heads of Departments; College of Engineering and Commerce—Charles Bulger, Ayer, Gilmour and Department Heads; Curtis School of Home Economics—Charles Bulger, Maxwell, Lathrop, Counts; Teachers College—Charles Bulger, Bankes, and all Members of the Teachers College Faculty; Evening Session—Holmes, Bankes, Hayes, Kuhnes, and Heads of Departments of Liberal Arts College and College of Engineering and Commerce.

Social: Thompson, Mitchell, Gardner, Norman, Reed, Griffin, Maxwell, Fox, W. W. Leigh, Greenly, Tinklepaugh.

Holiday Observance: John Bulger, Chairman; DeLeone, Barnhardt, Dunckley, McKee, Lipps, Blair, Fanning, Paul Smith, Sherman, Raw, and Class Advisers.

Athletics: Ayer, C. R. Olin, Sefton, DeGraff, Van Metre.

Student Affairs (Council, Elections, Advisers, Advertising, Etc.): SIMMONS, MITCHELL, GILMOUR, EVANS, LATHROP, GARDNER, VANCE AND CLASS ADVISERS.

Library: Pease, Cushman, Kraatz, W. W. Leigh, Kuhnes, J. Bulger, Packard.

Scholarship and Honors: Young, Hoover, Jones, Durst, Householder, Kelley.

University Assembly and Public Speaking: HAYWORTH, DELEONE, WILSON, STICKNEY, ROBERTS, MCEBRIGHT, KING, AND ENDE.

Examinations: HAYES, DAVIS, O. E. OLIN, PEASE, COOK, UPP, BENDER, FLINT, WOOD AND DEGRAFF.

Personnel: GARDNER, HAYES, MITCHELL, GILMOUR, GREENLY.

# FACULTY REPRESENTATIVES FOR UNIVERSITY ACTIVITIES

Freshman ClassSlagg	PANHELLENIC ADVISERMITCHELL
SOPHOMORE CLASSH. A. SMITH	INTERFRATERNITY COUNCILGARDNER
JUNIOR CLASSCRECRAFT	Women's League and RoomsMitchell
SENIOR CLASSSCH MIDT	University PublicationsVANCE
MusicDeLeone	University Productions Hayworth
EVENING SESSION STUDENT BODY	HOLMES VANCE

#### THE UNIVERSITY OF AKRON

The University of Akron was created as a municipal institution 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.

In October, 1926, by action of the Board of Directors, the name of the university was changed to The University of Akron.

The 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.

# DEPARTMENTS, EQUIPMENT AND STANDARDS

#### 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, Bachelor of Science, and Bachelor of Science in Home Economics.

#### THE COLLEGE OF ENGINEERING AND COMMERCE

The College of Engineering and Commerce offers courses in various branches of engineering, in commerce and finance, and in secretarial science. All engineering courses are on the co-operative basis. Commerce courses are on the full-time basis. A certificate course and a four-year secretarial course are offered.

Five years of eleven months each are required to complete an engineering course. A school, work and vacation calendar appears in the outline of engineering courses.

#### TEACHERS COLLEGE

Teachers College was organized in 1921 in co-operation with the Akron Board of Education. 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

All colleges of the University offer courses in the Evening Session. Credit is given toward a degree for regularly prescribed college subjects. Candidates for a degree must satisfy the entrance requirements of the University.

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. Besides offering the prescribed subjects leading to a degree, the various colleges have developed certificate courses which require approximately thirty-six hours of college work. The following certificate courses are offered:

BUCHTEL COLLEGE OF LIBERAL ARTS: Writers Course.

COLLEGE OF ENGINEERING AND COMMERCE: Municipal Engineering, Industrial Electricity, Industrial Production, Management, Accounting, Association Courses in Advertising, Real Estate, Purchasing, and Secretarial Courses.

THE TEACHERS COLLEGE: Art Appreciation, Fine Arts, Stage Design, Art Design; two and three year elementary courses with planned study leading to certification by the State Department of Education.

#### THE SUMMER SESSION

A Summer Session of six weeks in the Teachers College furnishes instruction to teachers and other persons who seek opportunities for training. Courses are also offered to meet the needs of university students.

#### 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 and most of the basement of Carl F. Kolbe Hall.

The Library contains about 32,224 cataloged volumes, about 12,180 pamphlets and about 5,000 mounted pictures in addition to several hundred volumes of miscellaneous books and public documents as yet uncataloged; also a considerable number 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 Department of Engineering.

The resources of Bierce Library are open to citizens, and the students of the University are privileged also to use the Akron Public Library.

#### COMBINATION COURSES

To students wishing to enter the profession of law, the College of Liberal Arts offers the opportunity of a combination Arts-Law course with the Law School of Western Reserve University, and also holds itself ready to consider, in individual cases, similar combination courses with other high-grade professional schools which require at least three years of liberal arts work for entrance.

#### **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, now used for a recitation and office building and known as Phillips Hall. Since the completion of Buchtel Hall there have been constructed Olin Hall, occupied by the departments of biology and physics; the central heating plant; Curtis Cottage, used as the home of the School of Home Economics; the Knight Chemical Laboratory, toward the construction of which Andrew Carnegie gave \$25,000; the Carl F. Kolbe Hall, the gift of Mr. F. A. Seiberling and Mr. F. H. Mason; and the engineering building. In 1927, one of the houses on the southwestern corner of the campus was made available for the use of the Music Department. Through the courtesy of the Akron School Board, the Teachers College occupies a part of the Spicer School Building for classroom and office purposes.

#### **STANDARDS**

The 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, the North Central Association of Colleges and Secondary Schools, and the American Council on Education. 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 premedical work by the American Medical Association. Its women graduates are eligible to membership in the American Association of University Women.

#### 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

- 1. Graduation from an accredited four-year high school.
- 2. For admission to the University of Akron the average of the work done by the student during his last two years of high school shall be the passing grade of that school plus one-third the interval between the passing grade and 100.
  - 3. Distribution of units in accordance with the following table:

English 3 Foreign Language 2 History 1 Science 1 Algebra 1½ Pl. Geometry 1 Solid Geometry 0 Vocational 0	OOLLILVE Home Economics	o Engineering	Commerce contract and 4-yr. Secretarial	00 1 1 1 1 2 2 2 yr. Secretarial	0 0 1 1 1 2 C Teachers	Maximum Maxim Maxim Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Ma
Total9½	9	8	91/2	7 or 8	9	_

In addition to these, enough additional units are required to make a total of 15 units without exceeding the maximum allowed in any one group.

One unit of plane geometry or 2 units of foreign language are required. <sup>2</sup>Not required for the Commercial Teachers and the Industrial Arts and Vocational Education courses.

\*11/2 units of algebra are required for the Industrial Arts and Vocational Education courses.

Of the elective units accepted for the two-year secretarial course, six units may be in vocational subjects distributed as follows:

If 6 units are offered, at least 4 units should be commercial.

If 5 units are offered, at least 3 units should be commercial.

If 4 units are offered, at least 2 units should be commercial.

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.

REGISTRATION AND CLASSIFICATION

Students who wish to gain admission by certificate should ask the principal of the high school to mail a statement of high school record on a blank supplied by the University Examiner upon request. If the certificate is satisfactory the applicant is notified, and is expected to present himself in person to register between August 17 and September 5. ENTERING FRESHMEN ARE NOT ALLOWED TO REGISTER AFTER NOON OF SEPTEMBER 5. A \$5.00 deposit is required at the time of registration which is applied on semester fees.

Registration of entering freshmen for the second semester is on January 29, 1932, from 9:00 to 4:00 and January 30 from 9:00

to 12:00.

FRESHMAN WEEK

The University of Akron in 1926 adopted a plan to aid the Freshman in adjusting himself to university life. The week preceding the opening of the regular sessions is devoted to a program consisting of a general assembly, tests, physical examination, lectures, payment of fees, and concluding with a mass meeting. At the time of registration each student is assigned to a section and carries out the schedule as outlined by the Director of Freshman Week on a printed program.

For the first semester, 1931-32, all entering freshmen are required to report at 8:00 a. m. on Tuesday, September 8, and attend all

sessions of the week, Tuesday to Friday, inclusive.

For the second semester, only one day, Tuesday, February 2, 1932,

will be devoted to a freshman program.

Students transferring from any college to the University of Akron are required to take the psychological tests given during Freshman Week.

REGISTRATION DAYS

The registration days for upper classmen for 1931-32 are:

Day Session in all departments of the University, September 11 and 12; Friday, 8:30 a. m.-5:00 p. m., and Saturday, 8:30 a. m.-5:00 p. m., and 7:00-9:00 p. m. for the first semester. For the second semester, January 11 to 16, inclusive, with final registration and classification on February 1 and 2.

Evening Session, September 24, 25 and 26, 9:00 a. m. to 9:00 p. m. for the first semester; February 4, 5 and 6, 9:00 a. m. to 9:00 p. m.

for the second semester.

A late registration fee of \$5 will be charged after these dates.

ADMISSION FROM OTHER COLLEGES

The student who wishes to enter the University of Akron with advanced standing should ask the Registrar of the institution from which he is transferring to send to the University Examiner a transcript of his record.

Advanced credit will not in general be granted in excess of 16 credit hours per semester nor will the total number of hours granted

exceed the total number of quality points earned. Evaluations of work taken elsewhere are tentative until a year of residence work has been completed at the University of Akron.

Evaluations of work taken elsewhere and statements of work required for a degree or diploma shall not be considered valid for indefinite periods. In general, such statements presuppose that the

course will be completed in the minimum period of time.

No student will be received on transfer from another college or university who does not meet the scholastic requirements of the University of Akron, or who is ineligible to re-enter the institution from which he desires to transfer.

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 credit hours of work. Except in Buchtel College of Liberal Arts, three-fourths of this must be professional work done in the college granting the degree.

### SPECIAL STUDENTS

Students who have not fulfilled the entrance requirements, and who are 21 years of age or more, are known as special students. Such students are not admitted in candidacy for degrees, but are permitted to enter any classes for which they may be prepared.

# IRREGULAR STUDENTS

Students who have fulfilled the entrance requirements, but who are not pursuing a regular course in candidacy for a degree, are known as irregular students.

# SUBJECTS REQUIRED FOR ADMISSION

For the subjects, required or accepted, for admission to the several colleges of the University, see the entrance requirements of these colleges in the general catalog or respective bulletins.

# 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: English

History, Social Sciences and Civics (not more than 4 units in all)	Ū	or 4	units
Adv. U. S. History  English History  General History  Ancient History  Med. and Mod. History  Civics  Political Economy  Sociology  Languages, Foreign (not more than 6 units in all)	1/2	1 1 1 1 1/2	unit unit unit unit unit unit unit
French German Greek Latin Spanish	1 1	to 4 to 4 or 2 to 4 or 2	units units units units units

Mathematics (2 to 4 units)  Algebra		1	units unit unit unit
Science (not more than 4 units in all)  Biology	<del>½</del>	1 or 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	unit unit unit unit unit unit unit unit
Vocational Subjects (not more than 3 units in all)  Agriculture	1 1 1	to 3 to 3 to 3 to 3 to 3 to 3	units units units units units units

#### 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.

One day, Tuesday of the first week of the semester, is devoted to a freshman orientation program. All entering freshmen are required

to attend all sessions.

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.

#### PSYCHOLOGICAL TESTS

Psychological tests are given to new students at the beginning of each semester to aid in determining the amount of work students should be permitted to carry, in advising the amount of outside work students may undertake, in deciding the dismissal or suspension of students, in considering the reinstatement of suspended students, in appointing student assistants, in determining admission to certain advanced courses, and in sectioning classes.

All new students including specials are required to take the psychological tests unless excused by the Dean of the college in which

they are enrolled.

All seniors are given opportunity to take psychological tests during the week of their final examinations with the understanding that each senior who takes these tests will be given a complete statement of grades made in all psychological tests taken during his college course.

#### EMPLOYMENT AND LIVING CONDITIONS

#### 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.

#### SELF HELP

A large proportion of the men of the institution are selfsupporting. 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.

No student, however, should enter without sufficient money for payment of term bills and for living expenses for a semester, 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 and women should be addressed to Dean D. H. Gardner.

#### LIVING CONDITIONS

The University maintains no dormitories, but lists of rooms for men may be found at the office of the Dean of Men. All women attending the University are under direct charge of the Adviser of Women. No non-resident woman is allowed to select a rooming place not on the approved list of the Adviser of Women. Non-resident women intending to enter the University should write beforehand to the Registrar, 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. or Y. W. C. A.

# FEES AND EXPENSES

All fees are payable at the Secretary's office before the student enters classes.

#### SUMMARY STATEMENT

- (A) Tuition is free to citizens of Akron.

  Tuition charges for those not citizens of Akron are shown below.
- (B) A Maintenance Fee is paid by all students. The amount of the fee depends upon the number of credit hours taken.
- (C) Laboratory Fees and Breakage Deposits are charged in some courses, to cover the materials used.
- (D) Student Activity Fee is charged students taking eight credit hours or more. It includes student athletic ticket.
- (E) Graduation Fee, in connection with Bachelor's degree and Master's degree.
- (F) Other Small Fees.
- (G) Refunds.

#### TUITION

Rules adopted January 12, 1926:

Citizens of the City of Akron shall not be charged tuition in any school or department of the University.

In applying this rule, the following persons, if citizens of the United States, shall be deemed to be citizens of Akron unless the circumstances of any particular case may show the fact to be otherwise, viz.:

- 1. Any unmarried person under 21 years of age living within the City of Akron with his parents, if Akron is the place of domicile of such parents.
- 2. An unmarried person over 21 years of age who has resided in the City of Akron continuously for one year or more immediately prior to registering in the University for any semester, and who has chosen Akron as the place of his domicile.
- 3. A husband living with his wife, or a wife living with her husband, within the City of Akron, when such husband and wife have chosen Akron as the place of their domicile.

In every other case the burden of proving citizenship in the city of Akron shall rest with the person claiming the right of free tuition.

Any person enjoying the right of free tuition shall forfeit the right upon abandoning the city of Akron as his place of domicile, but may regain the right upon re-establishing his domicile 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, by presenting receipted tax bill for that half year.

TUITION FEES

# LABORATORY FEES

All laboratory fees are payable strictly in advance before entering classes.

# (Per semester unless otherwise stated.)

D	7.50
Bacteriology 19, 20\$	
*Bacteriology deposit for breakage	5.00
Biology 3, 4, 19, 20, each	7.50
Biology 1, 2, 6, each	4.00
Biology 23, 24, per semester hour, each	1.00
Botany 31, 32, each	4.00
Concrete Laboratory, C. E. 24	2.00
Chemistry 1, 2, each	
Chemistry 3, 4, 5, 6, 7, 8, 9, 10, each	
Chemistry 32, 33, Engineering, each	7.00
Classical 12 14 102 104 107 1091	9.00
Chemistry 13, 14, 103, 104, 107, 108, each	15.00
Chemistry 15, 16, each	15.00
Chemistry 115, 116, each	12.00
*Deposit for breakage (all laboratory courses in Engineering and	
each Chemistry course)	5.00
Dietetics and Advanced Nutrition 32	2.75
Electrical Laboratory, E. E. 7, 8, 10, 13, 14, 22, 61, 62, each	3.00
Food Economics	2.50
Foods 15, 16, each	4.50
Foods 13, 14, each	4.50
Foods, general (Teachers College), 13, 14, each	4.50
Foods (Evening Session)	3.75
Foods for Special Occasions 33, 34 (Evening Session), each	5.00
Home Economics 23, 24, each	1.00
Make-up 22	2.50
Marketing 26	2.50
Materials Laboratory, C. E. 18	2.00
Materials Laboratory, C. E. 18	3.00
Mechanical Laboratory, M. E. 62	2.00
Metallurgy 34	5.00
Physics 3, 4, 5, 6, 7, 9, 10, 19, 51, each	4.00
Physics 1, 2, 52, 53, 54, 55, 56, each	2.00
Radio Communication, E. E. 45	2.00
Radio Speaking 9	2.50
Railroads, C. E. 20	1.00
Research Problems (Teachers College)	5.00
tR. O. T. C. (Basic Course) deposit	5.00
TR. O. T. C. (Advanced Course) deposit for uniform	10.00
Speech 3	1.25
Stagecraft 21de	2.50
Steam Power Plants, M. E. 46	2.00
Surveying, C. E. 1	3.00
Surveying, C. E. 4	2.00
Thesis, Teachers College	10.00
Typewriting 31, 32, 33, 34, 39, each	
Zoology 1, 2	4.00

<sup>\*</sup>The unused portion of the breakage deposit will be returned to the student.
†This deposit is returnable at the end of the semester, less charges for lost or damaged articles.

#### MUSIC

Piano Practice, per semester \$5.00
Two private lessons per week, each semester, in Piano, Voice, Violin and Organ
Students who wish to take short courses of ten lessons each may do so by special arrangement with the Director of Music.

#### LATE REGISTRATION FEE

A fee of \$5 will be charged students who have not completed registration, classification and payment of fees before the class work begins in the school in which they are registered.

The dates on which this fee will first be payable each semester, 1931-32, are as follows:

#### FALL SEMESTER, 1931

Monday, September 14	All Departments of the Day Session
Monday, September 21	The Evening Session
Tuesday, November 17	Division B, Co-operative Engineering students

#### SPRING SEMESTER, 1932

Wednesday, February 3	All Departments of the Day Session
Monday, February 8	The Evening Session
Tuesday, April 12Div	ision B, Co-operative Engineering students

#### SUMMER SESSION, 1932

Tuesday.	Tune	21	The Teachers College	e
Tuesday,	June	21	Co-operative Engineering students (Division B)	)
Tuesday,	July	19		)

#### MISCELLANEOUS FEES

One free transcript of record will be furnished a student. A fee of \$1 will be charged for each additional copy.

After a student has been classified a charge of \$1 will be made for any change in his program which is not made at the instance of the University authorities.

A fee of \$1 per subject with a maximum of \$5 will be charged for entrance examinations taken on days other than those specified, and a fee of \$5 will be charged for each examination in college work not taken in course.

All students, both resident and non-resident, are required to pay a maintenance fee covering registration and incidentals. An advance deposit of \$5 on the maintenance fee is required of all new students at the time of registering. This fee will be applied on fees at entrance

All students taking a total of eight semester hours or more in one or more schools of the University are required to pay the student activities fee.

All students graduating from the University are required to pay a graduation fee, payable at least one week before graduation.

Persons are permitted to audit classroom work. Auditors do not participate in class discussions or examinations, and do not receive credit. The fee is the same as for regular enrollment.

#### **REFUNDS**

Tuition and fees are not returnable, except for withdrawal on account of sickness, when doctor's certificate may be required, or other cause entirely beyond the control of the student.

No refunds will be made of late registration fees, transfer fees, examination fees, nor advance deposit if the student is eligible to enter the University.

To be entitled to refund, certain statements are required which may be learned at the Secretary's office.

Fees paid for evening courses offered but not given will be refunded.

Advance deposit will be refunded if student is not eligible to enter the University.

When students are entitled to other refunds, the University will retain a proportion and return to the student the balance paid, as stated below:

Time of Withdrawal	Amount Retained by University
Before entering classes	\$2.50 of evening session fees or \$5.00 of
	day session fees.
During 1st or 2nd weeks	20% of semester charge.
During 3rd or 4th weeks	40% of semester charge.
During 5th or 6th weeks	60% of semester charge.
During 7th or 8th weeks	80% of semester charge.
After 8th week	Full amount paid.

# FUNDS, PRIZES, SCHOLARSHIPS AND HONORS

#### 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 College. 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." Application should be addressed to Miss Marion Voris, Treasurer, 369 East Buchtel Avenue.

#### SCHOLARSHIP LOAN FUNDS

The Akron College Club maintains a loan fund known as the Elizabeth A. Thompson Scholarship Fund, amounting to \$300 a year. Loans are made to deserving women students of the University.

The Akron Panhellenic Association offers a scholarship of \$150 a year to deserving women students.

#### THE ASHTON PRIZES

A fund consisting of \$3,000 was 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 is 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 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 and \$20 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 University of Akron. 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 ELIZABETH A. THOMPSON CUP

The Elizabeth A. Thompson Cup, named in honor of the Dean of Women, is a silver cup to be awarded each September to that Akron high school whose graduates attending the University of Akron made the best record in literary attainments during the preceding college year. It will become the permanent property of the first school which wins it three times. This cup was donated in 1925 by Mrs. Irving C. Tomlinson of Boston, Mass. The winner of the cup for 1924-25 was North High School; for 1925-26, Central High; for 1926-27, West High; for 1927-28, Central High; for 1928-29, South High; for 1929-30, Central, and it became the permanent possession of Central High School.

#### THE JOHN R. BUCHTEL CUP

The John R. Buchtel Cup, donated in 1925 by Rev. Irving C. Tomlinson, Class of '80, is a silver cup awarded annually to that high school whose graduates, during the preceding year, have made the best athletic record at the University of Akron, the cup to become the permanent property of the school which wins it three times. This cup was awarded for 1925-26 and again for 1926-27 to East High School; for 1927-28 to North High; for 1928-29 to Garfield; 1929-30 to Garfield. The cup will not be awarded after 1929-30 and will become the property of the University.

#### 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 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, and a third cup has been donated by Mrs. Loomis. Contests are now being held for it. The winners of all contests are as follows:

The First Loomis Cup: 1915-16, West High School; 1916-17, South High School; 1917-18, South High School; 1918-19, won permanently by South High School.

The Second Loomis Cup: 1919-20, West High School; 1920-21, South High School; 1921-22, West High School; 1922-23, South High School; 1923-24, North High School; 1924-25, won permanently by South High School.

The Third Loomis Cup: 1925-26, Central High School; 1926-27, North High School; 1927-28, Garfield High School; 1928-29, West High School; 1929-30, West High.

#### FRED C. KELLY PRIZE

For the academic year 1930-31, Mr. Fred C. Kelly of Peninsula, Ohio, author and lecturer, offered a prize of \$50 to be administered by the English Department and to be awarded to students of Freshman Rhetoric.

#### KAPPA DELTA PI PRIZES

Alpha Theta Chapter of Kappa Delta Pi has established two prizes of \$25 each in Teachers College, one for freshmen and one for sophomores. The following rules govern the awarding of these prizes:

- I. Rules for freshman award.
  - The student must have completed thirty-two semester hours of work.
     The thirty-two hours must include required subjects for Teachers College freshmen.
  - . There must be no failing grades.
  - 4. The total number of grades shall be averaged.
  - 5. The student must have entered Teachers College within three years after being graduated from high school.
- II. Rules for sophomore award.
  - 1. The student must have completed sixty-four semester hours of work.
  - The sixty-four hours must include required freshman and sophomore work.
  - There must be no failing grades in either the freshman or sophomore years.
  - years.

    4. The total number of grades shall be averaged.
  - The student must have entered the sophomore class within one year after completing the freshman year.

#### THE DR. E. B. FOLTZ PRE-MEDICAL PRIZE

The Dr. E. B. Foltz Pre-Medical Prize of One Hundred Dollars to be awarded each year to that member of the graduating class who made the highest average grade in all work taken in the four-year Pre-Medical Course.

(The name of the winner shall be announced at Commencement, but the actual award shall not be made until the winner has enrolled in medical college.)

The prize will be awarded for the first time in June, 1931.

#### RHODES SCHOLARSHIPS

Men who have completed their sophomore year in Buchtel College are eligible to compete for the Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in extracurricular activities. Further information may be obtained from the dean of the College of Liberal Arts.

#### THE AKRON SMITH CLUB FELLOWSHIP

A fellowship amounting to \$500 is offered by the Akron Smith Club to a member of the graduating class of the Liberal Arts College who may desire to attend Smith College. Selection is made by a committee.

#### FELLOWSHIPS IN RUBBER CHEMISTRY

Three fellowships have been established in the Department of Chemistry, one by the Goodyear Tire & Rubber Company, one by the Firestone Tire & Rubber Company, and one by the B. F. Goodrich Company, for the study of chemistry of india rubber. These fellowships are open to graduates of standard American colleges and are of the value of \$1,000 per year each, with remission of all University fees. The B. F. Goodrich Company Fellowship will be discontinued after June, 1931.

#### FRANK PIXLEY MEMORIAL FUND

The Frank Pixley Memorial Fund was established in 1931 by the will of Isabel McRoy Pixley, wife of Frank Pixley, class of 1887. The fund amounts to \$50,000, the income from which is to be used for the establishment of scholarships in drama, music and literature. Graduate scholarships in literature and drama are worth \$400 to \$500 a year; undergraduate scholarships, \$50 per semester. Music scholarships for students who are taking one or more courses in Buchtel College of Liberal Arts are worth \$40 per semester.

#### PHI SIGMA ALPHA

Phi Sigma Alpha is an honorary fraternity founded to encourage high scholarship among the students of the Liberal Arts College. The requirements are as follows:

1. Only such courses as are taken in the Liberal Arts College or such courses as are regularly accredited in that college may be counted for standing in the fraternity.

standing in the fraternity.

2. A minimum of 112 hours for three and one-half years for those completing the regular four-year course, or of 80 hours for two and one-half years for students who have spent one year at another institution, are required.

3. Only scholarship hours are counted—not hours made for good attendance

4. All seniors who have maintained an average grade of not less than 90% during their three and one-half years are eligible for membership, provided that at least two and one-half years have been taken in Buchtel College of Liberal Arts.

Beginning at mid-year, 1927, and thereafter, all juniors who have completed two and one-half years of work in Buchtel College of Liberal Arts with the average grade not less than 92% shall be eligible for mem-

bership.

6. Those seniors who may have entered the institution at mid-year as

Ruchtel College are also freshmen and who have remained three years in Buchtel College are also eligible, the required number of scholarship hours being 96.

7. Average scholarship is reckoned as a whole, not specialization.

#### THETA PHI

Theta Phi is a commercial honorary fraternity founded in 1918 for the purpose of encouraging high scholarship in commerce courses. Students who have an average of 85% or better in all subjects and at least 80 hours of credit are chosen in the second semester of the junior year. The purposes of the fraternity are:

- 1. To raise the standards of scholarship in the Department of Commerce.
- 2. To provide recognition for outstanding students in the Department of Commerce.
- 3. To further co-operation between the student body and the faculty of the Department of Commerce.

#### PHI CHAPTER OF SIGMA TAU

Sigma Tau is a national honorary engineering fraternity. Phi Chapter was established at the University of Akron in December, 1924, the charter being granted to the local honorary fraternity O. H. M. which was founded in 1919. Sigma Tau elects its men on the basis of scholarship, sociability, and practicality. Any Senior or Junior engineer is eligible whose scholastic average for all his previous college work ranks him in the upper third of the combined Junior and Senior students. The aim of the fraternity is to improve scholarship, foster a better spirit among engineering students, and help members to become better citizens.

#### SIGMA PI EPSILON

Sigma Pi Epsilon is an honorary fraternity, founded for the purpose of promoting scholarship, citizenship and artisanship among the students of the Teachers College. Candidates must earn an average grade of 89% during the three and a half years in Teachers College, and their rank must place them in the upper 15 per cent of the graduating class. Six semesters' work must be in Teachers College. The citizenship record is determined by a vote of the faculty of Teachers College, and the artisanship record by the student's practice teaching.

#### HONORS COURSES

As a special opportunity for the exceptional student, the faculty has established what is known as Honors Courses. Students eligible to apply for these courses are chosen by the faculty council each year from the list of the juniors and seniors in accordance with their records in the Registrar's office. Such students are notified to this effect and may then, if they so desire, apply for the privilege of working in Honors Courses. From these candidates the faculty council selects a definite number of those deemed best fitted to take advantage of this opportunity.

The privilege of being eligible to Honors Courses consists in the fact that to such a student the limitation of the number of term hours does not apply, but he may elect as he and the committee may choose. Attendance of students so chosen is optional at any and all lectures and recitations.

The head of each department personally or by deputy supervises such work elected in his department. For each student in Honors Courses individual final examinations are held which consist of an oral examination before the entire committee in charge of such courses, a written examination within the major department, and a thesis which takes the form of a comprehensive study on work done.

The faculty committee in charge of Honors Courses is composed of the heads of departments in which Honors students elect majors. It consists of at least three members, the chairman being the faculty member appointed as director of Honors Courses. All Honors students meet with this committee once every two weeks in seminar.

At the close of each semester a student may for unsatisfactory work or for misconduct be deprived of Honors privileges and reduced to the rank of regular student. The faculty council may then choose another student to fill the place of one so demitted.

#### COMPREHENSIVE EXAMINATIONS

Beginning with the senior class of 1931, a general final examination of at least three hours' duration, covering all courses taken in major subjects, will be required in many of the departments of instruction (not including Co-operative Engineering).

This requirement is optional with the departments and the examination may be oral or written or both.

#### GENERAL REGULATIONS

THE SEMESTER 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 "semester hour."

REQUIRED FOR DEGREE—128 semester hours, except in the cooperative courses of the College of Engineering and Commerce; 270 hours on the co-operative basis are required for the degree of Civil, Electrical, Industrial or Mechanical Engineer.

Candidates for a degree are required to file an application with the Registrar by February 15 of their senior year preceding graduation.

ELECTION OF SUBJECTS IN OTHER SCHOOLS OF THE UNIVERSITY—No student in one school or college shall be allowed to elect subjects in other schools until all freshman and entrance requirements are satisfied.

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

#### GRADING SYSTEM

93-100 inc	lusive	Excellent	A
		Good	
		Fair	
		Poor	
Below 70	***************************************	Conditioned	E
		{ Conditioned Failed	F
Incomplet	e		I

"Conditioned" means that although the semester's work is not of passing grade the deficiency may be made up without repeating the course in class. Failure to remove the deficiency satisfactorily by the close of the student's next semester in the University shall convert the grade to F. No higher grade than "D" shall be given for the removal of a "Condition."

The grade "Conditioned" may be given only for the first semester's work in a subject extending through two or more semesters, such as first-year chemistry or first-year foreign language.

"Incomplete" means that the student has done passing work in the course, but some part, for good reason, has not been completed. Failure to make up the omitted work satisfactorily within the first 6 weeks of the student's next semester in the University shall convert the grade to F.

#### QUALITY REQUIREMENT

The student must present for graduation quality points equal in number to 1.1 times the total number of semester hours passed as shown on his record in the Registrar's Office. Quality points are given as follows:

For each credit hour of A, 3 quality points. For each credit hour of B, 2 quality points. For each credit hour of C, 1 quality point. For each credit hour of D, 0 quality points.

Effective September, 1931, for all work taken after that date:

For each credit hour of F, -1 quality point. For each credit hour of F (second failure in same course), -2 quality points. For each credit hour of F (third failure in same course), -3 quality points.

#### RULES REGARDING FAILURE

#### FIRST YEAR STUDENTS

Any first year full-time student failing to receive credit for at least 8 semes ter hours (not including sub-freshman courses) with a grade other than E or F at the end of any semester shall become a probationary student; co-operative students shall receive credit for 15 co-operative hours the first semester and 10 co-operative hours the second semester.

Any first year full-time student failing to receive credit for at least 11 semester hours (not including sub-freshman courses) with a grade other than E or F at the end of the first semester, shall become a probationary student at the end of the second semester unless he receives credit for at least 11 semester hours

with a grade other than E or F for that semester.

#### UPPER CLASSMEN

Any full-time student who has been in attendance at the University of Akron 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 become a probationary student. For co-operative students the following number of credit hours apply, exclusive of home study courses:

Sophomores	12 hours
Pre-Juniors	13 hours
Tuniors	14 hours

#### PROBATIONARY STUDENTS

A probationary student shall be required to take a definite program of studies, from 8 to 16 hours on full-time basis (14-22 hours, co-operative basis), the exact number of hours depending upon his rating in the psychological test on entering the University. He must pass in all the work taken or be dropped from the University. He continues to be a probationary student until he passes all his work in a semester with the grade of C or higher.

The re-admission of students dropped shall rest with the Committee on Admissions. Such students, however, will not be considered for re-admission within less than one year from the time they have been dropped from the University.

versity.

#### **DEGREES**

A statement of degrees conferred upon completion of courses, 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.

#### ABSENCE AND TARDINESS

Students are expected to be present at all meetings of classes for which they are registered, and may be dropped by the Dean from a course at any time for absence on recommendation of the instructor.

Two tardinesses shall count as one absence.

In case of prolonged absence, students may be reinstated in classes only by the Dean on recommendation of the instructor, and the work omitted shall be made up at the discretion of the instructor.

Three absences from assembly each semester shall be allowed. For each additional absence one-sixth of one semester hour shall be added to the student's requirements for graduation.

Faculty members are required to report to the respective Deans absences which are continuous for one week; at the end of each semester, absences of each student shall be reported with his final grade.

# COLLEGE OF ENGINEERING AND COMMERCE

FRED E. AYER, C. E., Dean

#### GENERAL INFORMATION

The Directors of the 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. In January, 1926, a department of Secretarial Science was created.

Akron is a manufacturing center in whose industries there is a constant demand for men with engineering training who will interest themselves in the problems of factory production and management rather than those of engineering design and construction. In order to furnish such training, the College of Engineering and Commerce offers a course in Industrial Engineering which includes both engineering and commerce subjects.

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 divisions, one of which is at work and the other in attendance at the University. For example, A who is in division A, attends classes at the University for nine weeks while B, who is paired with A and who is in division B, is at work. Then they change places, and B attends the University for nine weeks while A is at work. This necessitates the giving of all university work twice—once for each division.

Five years of eleven months each are required to complete the course. Freshman engineers spend the first semester at the University full time, after which twenty-two weeks of each year are spent in the classroom.

While a student is at work he is subject to all 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 conduct 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 this type of vocational education was selected as being the latest and the one best adapted to the city's needs; therefore no other courses in Engineering are offered.

#### 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 is considered such a vital part of the co-operative program that the student is expected to alternate between his classroom work in college and his practical work in industry according to a prescribed schedule. Any student who has deviated from this schedule without written permission from the Co-ordination Department will not be recommended for a degree.

Each student's work assignment is an individual problem. Scholastic records, work reports, conferences, and shop visits are all utilized by co-ordinators in an effort to give each student the type of practical experience which best suits his particular needs.

While at work, co-operative students are kept in constant touch with the college by means of home study courses, work reports, and co-ordinators' shop visits. The home study courses consist of weekly assignments in engineering problems which preserve continuity in the study habit. Weekly work reports are prepared in diary form and contain a daily account of the student's practical experience. These reports provide a constant check upon the student's progress on his outside employment.

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

professional subjects.

#### WAGES

The object of requiring outside work is to give the student practical experience and not to enable him to earn money. The student's earnings are not sufficient to pay his expenses. The student is frequently called upon to change practice jobs where the change means a decrease in salary.

Engineering 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, Industrial Engineer, Bachelor of Science in Business Administration, and Bachelor of Science in Secretarial Science, will be granted to those students who satisfactorily complete the required work of the respective courses of study. In addition to his diploma, each co-operative 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 two years to complete the basic course on the co-operative or part-time plan. All freshmen are urged to attend the basic camp at the end of the freshman year and satisfactory arrangements have been made in the summer school for such attendance.

Students pursuing advanced R. O. T. C. are allowed to substitute military training (not over 12 co-operative hours of credit) for courses in the curriculum. These courses shall be selected by a committee composed of the Dean, head of the department in which the student is classified, and the professor of co-ordination.

#### ADMISSION

The following supplements the statement of general entrance re-

quirements made on introductory pages.

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.

#### ENTRANCE REQUIREMENTS

The following supplements the statement of general entrance requirements made on introductory pages.

The requirement for unconditional entrance is 15 units.

The specific requirements for entrance to this college are as follows:

English Mathematics (Algebra 1½, Plane Geometry 1) Solid Geometry American History and Civics Science (must include laboratory work) Foreign Language		Secretarial 3 units 2½ units  1 unit 1 unit 2 units
Electives (not more than 3 units in vocational subjects)	7 units	5½ units

#### ENTRANCE REQUIREMENTS FOR TWO-YEAR COURSE IN SECRETARIAL SCIENCE

The specific requirements for entrance to the two-year course in Secretarial Science are as follows:

EnglishAlgebra	3	units unit
Geometry	1	unit
or Foreign Language	2	units
U. S. History and Civics	1	unit
Science (Physics, Chemistry, or Biology)		
Electives	8	units

Of the elective units accepted, six units may be in vocational subjects distributed as follows:

- If 6 units are offered, at least 4 should be commercial. If 5 units are offered, at least 3 should be commercial. If 4 units are offered, at least 2 should be commercial.

Students enrolled in the two-year Secretarial Course may transfer to other departments of the University with the permission of the University Examiner and the Deans of the respective colleges concerned, but only after all entrance requirements have been satisfied for the course to which transfer is desired.

#### ESTIMATED EXPENSE OF FRESHMAN YEAR

#### FIRST SEMESTER

Tuition	Resident Free	Non-Resident *\$ 90.00
Fees	\$56.00	56.00
Books and Drawing Instruments	40.00	40.00
Total	\$96.00	\$186.00
SECOND SEMEST	ER	4
	Resident	Non-Resident
Tuition		*\$ 90.00
Fees		48.50
Books		8.00
Total	\$56.50	\$146.50
SUMMER SESSIO	N	
	Resident	Non-Resident
Tuition		\$ 25.00
Fees		2.00
Books		5.00
Total	\$ 7.00	\$ 32.00
Board and room can be obtained for approx	cimately \$10 per	week.

<sup>\*</sup>The tuition is \$60.00 for co-operative students when attending the University half time.

#### DEPARTMENTS OF INSTRUCTION

Letters prefixed to course numbers indicate that these courses are given in the respective colleges or departments as follows:

A.—College of Liberal Arts.
C.—Commerce.
C. E.—Civil Engineering.
E. E.—Electrical Engineering.
M. E.—Mechanical Engineering.
I. E.—Industrial Engineering.
S.—Secretarial Science.

The general arrangement of courses on the following pages is according to this order:

Engineering: Civil Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering, General Courses for Engineering students.

COMMERCE: Business Administration, General Courses for Commerce students.

SECRETARIAL SCIENCE.

MILITARY AND PHYSICAL TRAINING.

Music.

# ENGINEERS' WORK CALENDAR

1931	$\mathbf{S}$	M	$\mathbf{T}$	W	T	$\mathbf{F}$	$\mathbf{S}$	<b>1932</b>	$\mathbf{S}$	M	$\mathbf{T}$	W	T	F	$\mathbf{S}$
APR.					9	10	11		11	12	13	14	15	16	17
	12	13	14	15	16	17	18	NOV	18	19	<b>2</b> 0	21	22	23	<b>24</b>
ļ	19	20	21	22	23	24	25		25	<b>26</b>	27	28	29	<b>30</b>	31
1	96	97	28	29	30	1	•	NUV.	1	Z	3	4	อ	b	-7
MAY	3	4	5	6	7	8	9		8	9	10	11	12	13	14
	10	11	12	13	14	15	16		15	16	17	18	19	20	21
	17	18	19	20	21	22	23		22	23	24	25	26	27	28
l	24	25	26	27	28	29	30	DEC.	29	30	1	2	3	4	5
JUNE	31	1	2	3	4	5	6		6	7	8	9	10	11	<b>12</b>
100112	7	8	9	10	11	12	13		13	14	15	16	17	18	19
	14	15	16	17	18	19	20		20	21	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>
	21	22	23	24	25	26	27		<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	1	2
JULY	28	29	30	1	2	3	4	JAN.	3	4	5	6	7	8	9
	5	6	7	8	9	10	11	FER	10	11	12	13	14	15	16
	12	13	14	15	16	17	18		17	18	19	<b>20</b>	21	<b>22</b>	23
·	19	20	21	22	23	24	25		24	<b>25</b>	26	<b>27</b>	<b>28</b>	29	30
1	26	27	28	29	30	31	1	FEB.	31	1	2	3	4	5	6
11100.	9	10	11	12	13	14	15		14	15	16	17	18	19	20
	16	17	18	19	20	21	22	MAR	21	22	23	24	<b>25</b>	26	27
	23	24	25	26	27	28	29	MAR.	28	29	1	2	3	4	5
SEPT.	30	31	1	2	3	4	5		6	7	8	9	10	11	12
	6	7	8	9	10	11	12		13	14	15	16	17	18	19
	13	14	15	16	17	18	19		20	21	22	23	24	25	26
	20	21	22	23	24	25	26		27	28	29	30	31	1	2
OCT.	27	28	29	30	1	2	3	APR.	3	4	5	6	7	8	9
		_	C	~	0	a	10		10	11	19	12	11		
	4	อ	О	1	0	J	TO		ΤŲ	11	14	10	14		

Dates in light face type indicate work periods for Division B.

Dates in bold face type indicate work periods for Division A.

# CALENDAR FOR CO-OPERATIVE ENGINEERS

1931-32

# Division A

April 13 to July 18, 1931In Industry
July 20 to August 15In School
August 17 to September 12Vacation
September 14 to November 14In School
November 16 to January 30, 1932In Industry
February 1 to March 19In School
March 21 to March 26Vacation
March 28 to April 9In School

# Division B

April 13 to June 13, 1931	In School
June 15 to June 20	Vacation
June 22 to July 18	In School
July 20 to November 14	In Industry
November 16 to December 19	In School
December 21 to January 2, 1932	Vacation
January 4 to January 30	In School
February 1 to April 9	In Industry

# **ENGINEERING**

#### OUTLINE OF COURSES FOR FRESHMEN

The freshman courses listed below are the same for all departments of engineering. All freshmen attend the University full time (18 weeks) during the first semester, and half time (9 weeks) during the second semester. The other 9 weeks of the second semester

are spent in engineering practice.

Students entering in February may overtake September freshmen by remaining in class full time for two semesters.

Students will be granted credit for only one summer military camp. This camp should be attended during the summer following the freshman year.

# FRESHMAN YEAR

#### FIRST SEMESTER

	First 9 weeks	Second 9 weeks
	Cr. Hrs.	Cr. Hrs.
Military Training	2	2
Physical Training		1
Orientation Co-ord. 1-2		1
Mathematics 51 (no credit first 9 weeks)		5
English Composition 80-81		4
Physics 51		4
Elementary Engineering Drawing 1-3	2	4
Surveying C. E. 1	3	

#### SECOND SEMESTER

First	or Second 9 weeks Cr. Hrs.
Military Training	2
Physical Training	1
Mathematics 52	5
Physics 52	5
Projection Drawing M. E. 4	4
English Composition 82	4
Co-ordination 22	2

#### SUMMER SESSION

	Hrs. per week
Elective	
Surveying C. E. 4	. 14
Inspection Trips, Co-ordination 71	. 2

# CIVIL ENGINEERING

The 22 hours for each Summer Session are equal to 10 semester credit hours (Co-operative basis).

#### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

# SOPHOMORE YEAR

SOLIOMO	KE IEKK
First Semester Cr. Hrs. Military Training 2 Physical Training 1 Mathematics 53 4 Physics 53 6 Descriptive Geometry M. E. 8 6 Public Speaking 91 2 Engineering Problems, Co-ord. 31 2  SUMMER Structural Drawing C. E. 10 Mathematics 55 Inspection Trips, Co-ordination 72	Second Semester   Cr. Hrs.
Inspection Trips, Co-ordination 72	
PRE-JUNI	
First Semester Cr. Hrs.  Chemistry 32	Second Semester   Cr. Hrs.
Railroads C. E. 20 SUMMER Reinforced Concrete C. E. 22 Concrete Laboratory C. E. 24 Inspection Trips, Co-ordination 73	SESSION Hrs. per week10842
JUNIOR	
First Semester Cr. Hrs.  Highways and Airports C. E. 30	Second Semester   Cr. Hrs.
Physics 56 SUMMER Engineering Geology C. E. 32 Inspection Trips, Co-ordination 74 Elective	SESSION         Hrs. per week           10         7           2         3
SENIOR	YEAR
First Semester Cr. Hrs.  Industrial Engineering I. E. 2	Second Semester   Cr. Hrs.

The above courses comprise the subjects required for the Degree of Civil Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

#### CIVIL ENGINEERING

### PROFESSOR DURST, ASSISTANT PROFESSOR BULGER

- 1. Surveying. First semester. Three credits.

  Correct use of the tape, level, and transit. A study of compass surveying, computing areas and note keeping. Making of maps and profiles.

  MR. DURST
- 3. Elements of Structural Design. First semester. Six credits. Stresses in simple roof and bridge trusses are analyzed. The theory of reinforced concrete is illustrated by problems involving the design of slabs, beams, and columns.

  MR. BULGER
- 4. Surveying. Summer session. Fourteen hours per week. Surveying and computation of areas, tests and adjustments of instruments, stadia and plane table work and contour mapping. At least one Polaris observation is made. Most of the work is done away from the campus. Prerequisite, 1.

  MR. DURST
- STRUCTURAL DRAWING. Summer session. Fourteen hours per week.

Students are taught some of the conventional methods of representing structural shapes. Exercises on the detailing of riveted joints, beams, girders, columns and roof trusses. Prerequisite, Descriptive Geometry.

MR. GRIFFIN

12-14. Roofs and Bridges. Six credits first semester; two credits second semester.

The calculation of stresses in several types of roof trusses for dead, snow and wind loads are made analytically and checked by graphics. Stresses are calculated under dead and live loads.

MR. BULGER

- 16. STRENGTH OF MATERIALS. Second semester. Six credits. Classroom work is given in tensile, compressive, and shearing stresses, riveted joints, torsion, bending moments, stresses and deflections of beams. A study is made of end conditions and formulas for columns. Prerequisites, Physics and Calculus.

  MR. BULGER
- 18. Materials Laboratory. Second semester. Three credits. Steel tests in compression, tension and torsion. Compression tests of brick, concrete, wood, and cast iron. Beams of steel and wood are tested. A 200,000-pound Olsen Universal testing machine, a 100,000-pound Riehle vertical screw testing machine and a 60,000-inch-pound Riehle torsion machine are used. Prerequisite, 16. MR. BULGER
- 20. RAILROADS. Summer session. Ten hours per week.
  An intensive course in railroad construction and surveying. Field and office work in simple, compound, and spiral curves. Text: Searles and Ives. Prerequisite, 4.

- 22. Reinforced Concrete. Summer session. Eight hours per week. Instruction in the properties of plain and reinforced concrete, the design of mixtures, and the theory of stresses in reinforced concrete. Practice in the design of beams and columns. Text: Urquhart and O'Rourke. Prerequisite, 16.

  MR. BULGER
- 24. Concrete Laboratory. Summer session. Four hours per week. The standard laboratory tests on cement, sand, and concrete are conducted in accordance with A. S. T. M. standards. Experimental investigations are made. Actual manufacture of cement is studied at a cement plant.

  MR. DURST
- 26. Design of Concrete Structures. First semester. Seven credits.

Practice in designing various concrete structures such as buildings, beam and slab bridges, and retaining walls. Text: Urquhart and O'Rourke. Prerequisite, 22.

MR. BULGER

- 28. Design of Steel Structures. Second semester. Seven credits. Practice in designing and computing costs of steel structures such as mill and office buildings, warehouses, and bridges. Prerequisite, 16. Text: Ketchum's Structural Engineers Hand Book.

  MR. BULGER
- 30. HIGHWAY AND AIRPORTS. Second semester. Five credits. Construction, cost, and advantages of various types of hard surfaced highways. City paving and street designing. Traffic is studied by the use of traffic census. Bituminous material is tested. Airport runways and airport development. Text: Agg's Roads and Pavements, and Government Bulletins.
- 32. Engineering Geology. Summer session. Six hours per week. A survey of dynamic, structural, and economic geology. The relation of geology to the engineer and his work. Classroom work is supplemented by an excellent collection of Ward's minerals, rocks, coals, etc., and by several other collections. Text: Ries and Watson.

  MR. DURST
- 34. Sewerage. First semester. Six credits. The first part of this course takes up sewer design. Each student is required to design a complete sewer system. Sewage disposal is taken up in the second part, including a comparative study of the various types of plants, and the visiting of several plants. Text: Metcalf and Eddy. Prerequisite, Hydraulics, M. E. 75.

MR. DURST

36. Engineering Design (Airplane Structures). First semester. Two credits.

The purpose of this course is to extend the students' knowledge of

The purpose of this course is to extend the students' knowledge of stress analysis and strength of materials.

MR. BULGER

38. Water Supply. Second semester. Six credits.

After a review of formulæ, methods, and practice, each student is required to design a complete water system. An inspection trip to the Akron Pumping Station and Treatment Plant at Kent is arranged. Text: Babbitt and Doland. Prerequisite, Hydraulics, M. E. 75.

40. Engineering Design. Second semester. Two credits. Special problems in design are selected. This course gives the student an opportunity to do extra work along the particular line in which he wishes to specialize.

Mu1-2e. Surveying. Three hours each semester. No credit.

Mu5-6e. Strength of Materals. Two hours each semester. No

Mu10e. Reinforced Concrete. Second semester. Two hours. No credit.

#### ELECTRICAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

#### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

SOPHOMO	RE YEAR
First Semester Cr. Hrs.  Military Training	Second Semester Cr. Hrs.
Military Training 2	Military Training 2 Physical Training 1
Mathematics 53 4	Mathematics 54 4
Physics 53	Physics 54 6
Descriptive Geometry M. E. 8 6	Physics 55
Descriptive Geometry M. E. 8	Engineering Problems, Co-ord. 32 2
SUMMER	SESSION Hrs. per week
Mathematics 55	6
Mathematics 55 Machine Drawing M. E. 14 Mechanical Engineering Laboratory M. E. Inspection Trips, Co-ordination 72	24
PRE-JUNI	OR YEAR
First Semester Cr. Hrs. Mathematics 56	Second Semester Cr.Hrs.
Mathematics 56 4 Chemistry 32 6	Mathematics 57 4 Chemistry 33 6
English Literature 85 2	English Literature 86 2
D. C. Theory E. E. 5	A. C. Theory E. E. 6
English Literature 85 2 D. C. Theory E. E. 5 6 D. C. Laboratory E. E. 7 4 Engineering Problems, Co-ord. 41 2	A. C. Theory E. E. 6
Physics 56 Advanced Electrical Theory E. E. 9 Advanced Electrical Laboratory E. E. 10 Inspection Trips, Co-ordination 73	SESSION Hrs. per week
Physics 56	
Advanced Electrical Laboratory E. E. 10	
Inspection Trips, Co-ordination 73	2
JUNIOR	
First Semester Cr. Hrs. Economics A. 23 5	Second Semester Cr. Hrs. Economics A. 24
Adv. Electrical Theory E. E. 11 5	Adv. Electrical Theory E. E. 12 5
Adv. Electrical Lab. E. E. 13 6	Adv. Electrical Lab. E. E. 14
Elementary Power Plants M. E. 21 5 Engineering Problems, Co-ord, 53 2	Strength of Materials C. E. 16 6 Materials Laboratory C. E. 18 3
Engineering Tropicins, Co-ord. 33 2	Engineering Problems, Co-ord. 54 2
	- ·

_	SUMMER SESSION	Hrs. per week
Advanced Electrical Theory E. Advanced Electrical Laboratory	E. 20 E. E. 22	12
Inspection Trips, Co-ordination	74	4
	SENIOR YEAR	

First Semester	Cr. Hrs.	Second Semester	Сr.	Hrs
Thermodynamics M. E. 82 Adv. Elec. Theory E. E. 28 Spec. Elec. Probs. E. E. 61 Industrial Engineering I. E. Engineering Problems, Co-ord	5 	Hydraulics M. E. 75  Elec. Power Transmission E. E. Radio Communication E. E. 45 Special Electrical Probs. E. E. 6. Accounting C. 28	. 41	5 3 4 4 6
		Engineering Problems, Co-ord, 69	K	2

The above courses comprise the subjects required for the Degree of Electrical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

#### ELECTRICAL ENGINEERING

#### PROFESSOR WALTHER, MR. SMITH

- 5. DIRECT CURRENT THEORY. First semester. Six credits. Elementary electrical engineering. A study of the principles of electricity and magnetism, electric and magnetic circuits, direct current generators and motors, and storage batteries.

  MR. SMITH
- 6. ALTERNATING CURRENT THEORY. Second semester. Six credits. Elementary electrical engineering and a study of alternating electromotive force and current, resistance, inductance, and capacity in alternating current circuits, and the theory of alternating current generators, motors, instruments, and transformers.

  MR. SMITH
- 7. DIRECT CURRENT LABORATORY. First semester. Four credits. This course includes elementary exercises in electricity and magnetism, various practical tests on direct current machines, and supplements the theoretical work given in 5.

  MR. SMITH
- 8. ALTERNATING CURRENT LABORATORY. Second semester. Four credits.

Elementary experimental study of alternating current circuits, and various practical tests on alternating current machines, supplementing the theoretical work given in 6.

MR. SMITH

9-11-12-20-28. ADVANCED ELECTRICAL THEORY. First and second semesters and the preceding and intermediate summer terms. Five credits each semester, and four and twelve credits for summer terms.

A continuation of 6. More thorough study of the theory and construction of electrical machines and appliances and a large number of problems.

MR. WALTHER

10-13-14-22. ADVANCED ELECTRICAL LABORATORY. First and second semesters and preceding and following summer terms. Six credits first semester, two credits second semester, six and eight credits for summer terms.

This is a continuation of 8 and includes more advanced experimental study of direct and alternating circuits and equipment, and supple-

ments the theoretical work given in 9-11-12-20.

MR. WALTHER, MR. SMITH

- 41. ELECTRIC POWER TRANSMISSION. Second semester. Three credits. A study of transmission and distribution of electrical power. The economic, mechanical, and electrical principles involved are considered for both underground and overhead systems. Prerequisite, E. E. 28.
- 45. Radio Communication. Second semester. Four credits. This course covers the theory of medium and high frequency circuits, vacuum tubes and other radio equipment. Two recitations and four hours of laboratory work per week. Prerequisite, E. E. 12.

MR. SMITH

61-62. Special Electrical Problems. Six credits first semester, four credits second semester.

Designed to teach the seniors in electrical engineering to work independently. Special exercises are assigned such as advanced laboratory experiments or design and construction of special equipment.

MR. WALTHER

31-32e. Industrial Electricity. Three hours per week. No credit.

ELEMENTS OF RADIO. Three hours per week. No credit.

### MECHANICAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

### FRESHMAN YEAR

(See General Outline of Engineering Courses for Freshmen on preceding pages.)

### SOPHOMORE YEAR

First Semester   Cr. Hrs.	Second Semester   Cr. Hrs.
SUMMER	SESSION Hrs. per week
Mathematics 55 Machine Drawing M. E. 14 Mechanical Engineering Laboratory M. E. Inspection Trips, Co-ordination 72	244

### PRE-JUNIOR YEAR

SUMMER SESSION	First Semester Cr. Hrs.  Mathematics 56	Second Semester   Cr. Hrs	3.
JUNIOR YEAR	Pt ysics 56 Steam Power Plants M. E. 44 Machine Design M. E. 54	SESSION Hrs. per wee	k
SUMMER SESSION         Hrs. per week           Machine Design M. E. 56         12           Mechanical Engineering Laboratory M. E. 61         8           Inspection Trips, Co-ordination 74         2           SENIOR YEAR			
SENIOR YEAR	First Semester   Cr. Hrs.	Machine Design M. E. 55	3.
	Machine Design M. E. 56	SESSION         Hrs. per week           51         8           2	k
First Semester Cr. Hrs. Second Semester Cr. Hrs. Hydraulics M. E. 75 Special Problems M. E. 82 5 Gas and Oil Engines M. E. 38 5			
Elective 5 to 7 Accounting C. 28 6 Engineering Problems, Co-ord. 65 2 Engineering Problems, Co-ord. 66 2 The above courses comprise the subjects required for the Degree of Machanical Fa-	First Semester Cr. Hrs. Heating & Ventilating M. E. 71	Engineering Problems, Co-ord. 66 2	

The above courses comprise the subjects required for the Degree of Mechanical Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

### MECHANICAL ENGINEERING

PROFESSOR GRIFFIN, ASSISTANT PROFESSOR UPP, MR. WILSON

- 1 and 3. ELEMENTARY ENGINEERING DRAWING. First semester.
  Two credits first nine weeks, four credits second nine weeks.
  This course trains the student in freehand sketching, lettering, and mechanical drawing. Special attention is given to the use and care of drawing instruments.

  MR. GRIFFIN, MR. WILSON
- 4. Projection Drawing. Second semester. Four credits. The representation of objects by showing the proper views. Assigned problems in orthographic projection, isometric, and oblique drawing, and the conventional methods of drawing bolts, nuts, and screw threads.

  MR. GRIFFIN, MR. WILSON
- 8. Descriptive Geometry. First semester. Six credits. The fundamental theory and the solution of problems concerning the graphical representation of points, lines, planes and surfaces. Prerequisites, 1, 3 and 4.

  MR. WILSON

- 9. Descriptive Geometry. Second semester. Two credits. This course, a continuation of 8, consists of the graphical solution of practical problems pertaining to surfaces and solids. MR. WILSON
- 14. Machine Drawing. Summer session. Ten hours per week. Modern drafting-room methods of making machine drawings. Students make freehand sketches of machine parts, detail and assembly drawings, tracings, and blue prints. Prerequisite, Drawing 1, 3, and 4.

  MR. GRIFFIN. MR. WILSON
- 21. ELEMENTARY POWER PLANTS. First semester. Five credits. A survey of the fundamental theory and design of some of the important power producing units such as steam boilers, steam, gas and oil engines, and their accessories. Prerequisite, Mathematics 52 and Physics 52.

  MR. GRIFFIN
- 24. MECHANICAL ENGINEERING LABORATORY. Summer session. Four credits.

The calibration and the use of instruments and apparatus such as pressure and vacuum gauges, thermometers, steam and gas engine indicators and oil testing apparatus.

MR. UPP

31. MECHANISM. First semester. Five credits. Various means of transmitting and modifying machine motions and the determination of the relative displacement, velocity, and acceleration of different machine parts. Prerequisite, Mathematics 54.

- 32. MECHANISM DRAWING. First semester. Two credits. Students make layout drawings of various methods of transmitting and modifying motion by means of links, cams, gears, and other common machine parts. Prerequisite M. E. 31.

  MR. UPP
- 38. Gas and Oil Engines. Second semester. Five credits. Fundamentals involved in the theory, design, and operation of internal combustion engines are studied. Special attention to automotive, airplane, and oil engines. Prerequisite, M. E. 82. MR. UPP
- 44-45-46. Steam Power Plants. Summer session and first and second semesters. Five credits each for summer session and first semester; three credits for second semester.

Combustion, steam boilers, properties of steam, and methods of burning coal and oil are studied during the summer and the first semester. In the second semester a study is made of steam engines, steam turbines, and their accessories with some laboratory exercises.

MR. UPP

54-55. Machine Design. Summer session and second semester. Five credits for summer session and four credits for second semester.

Fundamental principles involved in the design and operation of machinery, with problems on the design of riveted joints, keys and shafting, belting, chains and sprockets, gears, bearings, couplings, and other machine parts. Prerequisite, C. E. 16.

MR. WILSON

56. MACHINE DESIGN. Summer session. Twelve hours per week. In this course the student applies the theory taught in 54-55 and makes a complete design and drawing of an assigned machine.

MR. GRIFFIN, MR. WILSON

61-62. MECHANICAL ENGINEERING LABORATORY. Summer session and first semester. Eight credits for summer session and two credits for first semester.

The work in the summer consists of tests on internal combustion engines and the use of the electric dynamometer. Experimental work in the first semester is devoted to hydraulics, steam engine and steam turbine tests, and the operation of accessories.

MR. UPP

- 71. HEATING AND VENTILATING. First semester. Four credits. This course presents the fundamental principles which apply in various systems of heating and ventilation and the methods of their construction.

  MR. GRIFFIN
- 75. Hydraulics. Second semester. Five credits. Some topics studied are water pressure, stability of simple structures subjected to water pressure, the flow of water and its measurement and the fundamental principles of water pumps and motors. Prerequisite, Mathematics 54 and Physics 54.
- 82. THERMODYNAMICS. First semester. Five credits. Transformation of heat into mechanical energy is studied with special reference to steam boilers, engines and turbines, internal combustion engines and refrigerating systems. Prerequisite, Mathematics 57, Physics 55 and M. E. 45.
- 88. Special Mechanical Engineering Problems. Second semester. Five credits.

Each student works out a design or laboratory problem under supervision. The student is required to turn over to the department all data, drawings, etc., in the form of an engineering report.

MR. GRIFFIN, MR. UPP

- 1-2e. Engineering Drawing. Three hours a week. No credit.
- 12-13e. Machine Drawing. Three hours a week. No credit.

### INDUSTRIAL ENGINEERING

The 22 hours for the Summer Session are equal to 10 semester credit hours (Co-operative basis).

### SOPHOMORE YEAR

First Semester Military Training Physical Training Mathematics 53 Physics 53 Descriptive Geometry M. E. 8 Public Speaking 91 Engineering Problems, Co-ord.	Cr. Hrs. 2	Second Semester Cr. Military Training Physical Training Mathematics 54 Physics 54 Public Speaking 92 Production Methods I. E. 1 Engineering Problems, Co-ord. 32	Hrs. 2 1 4 6 2 6
Mathematics 55 Machine Drawing M. E. 14 Business Law 40 Inspection Trips, Co-ordination	SUMMER	SESSION Hrs. per	week
	Cr Hrs	OR YEAR  Second Semester Cr. Chemistry 33	Hrs. 6 5 4 6 2
Physics 56	SUMMER  73	SESSION Hrs. per	week 10 5 2
First Semester D. C. Electricity E. E. 5 D. C. Laboratory E. E. 7 Materials Laboratory C. E. 18 Economics A. 23 Human Biology A. 14 Engineering Problems, Co-ord.	6 4 3	Second Semester Cr. A. C. Electricity E. E. 6 A. C. Laboratory E. E. 8 Personnel Relations I. E. 4 Production Methods I. E. 3 Economics A. 24 Economic Geography C. 20 Engineering Problems, Co-ord. 58	Hrs. 6 4 3 3 5 5
Machine Design M. E. 56 Business Law C. 41 Business Finance C. 73 Inspection Trips, Co-ordination	SUMMER 74	SESSION Hrs. per	week
Industrial Management Probs. I. E. 5 Elements of Structural Design C. E. 3 Heating and Ventilating M. E. Business Correspondence S. 5 Marketing C. 80 Sociology A. 1 Human Engineering I. E. 6		Second Semester Cr. Statistics C. 57 Accounting C. 28 Problems in Finance C. 75 Sales Administration C. 86 Psychology A. 1 Machine Design M. E. 55 Bacteriology A. 80 Seminar I. E. 7	4 3 3 3 3 4 3 2
The above courses comprise	the subjects	required for the Degree of Industrial	En-

The above courses comprise the subjects required for the Degree of Industrial Engineer. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a total of 280 credit hours.

### INDUSTRIAL ENGINEERING

### Professor Adendorff

- 1. Production Methods. Second semester. Six credits. Modern production methods of the woodshop, foundry, and machine shop are developed. Textbook used.
- 2. Industrial Engineering. First semester. Six credits. A brief history of industry leading up to the period of mass production and the development of aggregation, standardization, specialization and the division of labor. The scientific management movement. Fundamentals of industrial organization. Wage systems and bonus payments, management control, labor turnover, office management, administrative principles, sales engineering. Textbook used.
- 3. Production Methods. Second semester. Three credits. Modern production methods more especially relating to the rubber industry. Time, motion study and production problems.
- 4. Personnel Relations. Second semester. Three credits. This course is designed to consider the problems of the personnel department in industry. Textbook used.
- 5de, Industrial Management Problems. First semester. Three credits.

Industrial problems relative to plant, buildings, equipment, materials, organization, labor, wages, production control, quality control and co-ordination.

- 6. Human Engineering. First semester. Three credits. A course helping the student to know and understand his own values, and to give a scientific basis for selecting men and women for vocations. Lectures and recitations on executive ability, personal power, effective effort, stimulating and controlling others, personality, art in management, discipline, the executive's adaptability, coloration. Textbook used.
- 7. Industrial Engineering Seminar. Second semester. Two credits.

This course takes up a study of industrial engineering publications and the writing and discussion of papers on allied subjects.

### GENERAL COURSES FOR ENGINEERING STUDENTS

The letter C prefixed to a course number indicates that the course is given in the Commerce Department; M. E., C. E., E. E., and I. E., in Mechanical, Civil, Electrical and Industrial Engineering Departments; A, in the Liberal Arts college; e, in the Evening Session; de, in both day and evening sessions.

### BIOLOGY

### Assistant Professor Fox

80. Bacteriology and Sanitation. Second semester. Three credits.

A study of micro-organisms and their specific relations to the engineer and his problems. Water purification and sewage reduction receive special attention. Sufficient laboratory work is given to enable the student to solve problems of a practical nature.

### CHEMISTRY

### Assistant Professor Schaefer

- 32. Engineering Chemistry. First semester. Six credits. Substances and properties, chemical change, combining proportions, atomic theory, valence, water, molecular weights, energy and chemical change, chemical equilibrium, acids, bases and salts and ionization. Laboratory work consists of experiments in these subjects.
- 33. Engineering Chemistry. Second semester. Six credits. The second semester is a continuation of 32. Practically the entire semester is devoted to a study of solid, liquid and gaseous fuels, their use, efficiencies and the thermo chemistry of combustion. Attention is given to the combustion of coal. Laboratory work consists of the analysis of industrial gases and the determination of the calorific value of fuels.
- 34. METALLURGY OF IRON AND STEEL. First semester. Six credits. Recitations and lectures on the manufacture, properties and the uses of iron and steel. Laboratory work in heat-treating of steel and microscopic examination of metals and alloys. The steel and non-ferrous alloy requirements of the aircraft industry are studied.

### CO-ORDINATION

Courses 22-68, inclusive, are home study courses. During each working period, engineering students are given weekly assignments consisting of practical problems in mathematics, physics, economics and English as well as special problems in their particular fields.

1-2. ORIENTATION. First semester. One credit.

This course helps the entering student to decide what branch of engineering he wants. Lectures by prominent engineers are alternated with the showing of industrial pictures.

MR. GILMOUR

- 22. MECHANICS PROBLEMS. Second semester. Two credits.

  Trigonometry is applied to practical problems in mechanics. Review is given in the resolution and composition of forces and velocities. Prerequisites, Mathematics 51 and Physics 51.

  MR. GILMOUR
- 31-32. MATHEMATICS AND PHYSICS PROBLEMS. Two credits each semester.

The problems in these courses involve trigonometry, algebra, concurrent and non-concurrent forces, and center of gravity. Prerequisite, Mathematics 52-53, and Physics 52-53.

MR. GILMOUR

- 41-42. SELECTED READINGS. Two credits each semester.

  Weekly assignments are given in reading from a selected list of books of varied content. The course broadens the point of view of the engineering student.

  MISS RAW
- 51-52. Engineering Problems. Two credits each semester. Problems which review the work given in C. E. 16 and C. E. 26, and which also illustrate topics not taken up in those courses. Prerequisite, Mathematics 56, Physics 54, and C. E. 16. MR. BULGER
- 53-54. Electrical Engineering Problems. Two credits each semester.

A reading course with suitable problems such as electric wiring, telephone practice, armature winding, etc., intended for students in electrical engineering who have completed E. E. 5. MR. WALTHER

- 55-56. Special M. E. Problems. Two credits each semester. This course consists of problems in applied mechanics and mechanism. Prerequisites, M. E. 21, and M. E. 31.

  MR. UPP
- 57. INDUSTRIAL ENGINEERING PROBLEMS. First semester. Two credits.

The student is given a series of problems as to labor in industry and merchandising for the purpose of determining guiding factors in dealing with such problems.

MR. ADENDORFF

58. INDUSTRIAL ENGINEERING PROBLEMS. Second semester. Two credits.

The student is given problems relating directly to the personnel department of an industry so as to familiarize him with some of the internal conditions met with in industry.

MR. ADENDORFF

61-64. Advanced C. E. Problems. Two credits each semester. For civil engineering seniors. Short problems are given in such subjects as concrete design, sewerage, and structural design.

MR. DURST

65-66. Advanced M. E. Problems. Two credits each semester. For mechanical engineering seniors. A series of problems relating to steam power plant engineering and machine design. MR. UPP

67-68. ELECTRICAL ENGINEERING PROBLEMS. Two credits each semester.

Open only to electrical engineering seniors. The student makes a thorough study of some application of electrical engineering according to his selection, and submits a comprehensive report in the nature of a thesis each semester.

MR. WALTHER

71-72-73-74. Inspection Trips. Summer session. Two credits. These trips include visits to prominent industries in Akron and adjacent cities such as Barberton, Massillon, Canton, and Cleveland. The student is required to provide his own transportation and must submit comprehensive written reports.

MR. DURST, MR. GRIFFIN, MR. WALTHER

### **ECONOMICS**

### Assistant Professor Anthony

A.23-24. Economics for Engineers. Five co-operative credits each semester.

The basic principles of economics. Production, consumption, distribution, money and credit, transportation and trade, and some modern economic problems.

### **ENGLISH**

### MISS RAW, MISS STEVENSON

80-81. English Composition. Either semester. Four credits each nine weeks.

Practice is given in writing technical descriptions, explanations, and professional letters, and in informal argumentation. Correctness in sentence structure, punctuation, and spelling is insisted upon. Outside reading.

- 82. English Composition. Either semester. Four credits. Steady practice is given in report writing and longer technical articles. A brief survey in literature. Outside reading.
- 83-84. English Literature. Summer session. Six credits each term.

Essays on the contemporary thought and modern short stories are studied for their scientific, cultural, and recreational value. Supplementary reading. Courses given alternate summers. Prerequisite, 82.

85-86. English Literature. Two credits each semester. The development of the novel since 1890. The lives and works of modern realists are studied. Supplementary reading. Prerequisite, 82.

87. English Composition. Second semester. Three credits. A course in advanced composition, business letters, abstracts, engineering reports, and articles for technical publication. Prerequisite, 82.

### **MATHEMATICS**

PROFESSOR JONES, ASSISTANT PROFESSOR BENDER, ASSISTANT PROFESSOR SELBY, MISS LIPSCOMBE, MRS. LEIGH

51. Trigonometry. Five credits each semester. Angles and their measurements; the trigonometric function; fundamental identities; reduction, addition and multiplication theorems;

trigonometric equations; inverse trigonometric functions; logar-

ithms; right and oblique triangles.

MR. BENDER, MR. SELBY, MISS LIPSCOMBE, MRS. LEIGH

52. Algebra. Five credits each semester.

This course includes a review of elementary algebra, and takes up the study of surds, linear and non-linear equations, proportions, variation, progressions, binomial theorem, permutations and combinations. MR. BENDER, MR. SELBY, MISS LIPSCOMBE, MRS. LEIGH

- 53. Analytic Geometry. First semester. Four credits. This course takes up such topics as loci, the straight line, circle, conic sections, polar curves, transformation of co-ordinates, parametric curves, and a few facts concerning space loci. Prerequisite, MR. BENDER, MR. SELBY
- 54. DIFFERENTIAL CALCULUS. Second semester. Four credits. Average and instantaneous rates, the differentiation of the ordinary algebraic and transcendental functions, implicit functions, differentials, maxima and minima, and applications to geometry and physics. Prerequisite, 53. MR. BENDER, MR. SELBY
- 55. Integral Calculus. Summer session. Six credits. In this course the technique of the integration of the functions usually found in the applications of the calculus to geometry, physics, and engineering is developed. Prerequisite, 54. MR. JONES
- 56-57. Integral Calculus. Four credits each semester. Development in series, partial differentiation, double and triple integrals, applications to finding length of arcs, areas, volumes, center of gravity, pressure, moment of inertia, radius of gyration, work, motion, also applications to engineering problems, solution of simple differential equations, derivation of formulas. Prerequisite, 55.

MR. TONES

### PHYSICS

Professor Householder, Assistant Professor Rollefson, Mr. Fouts.

51. Freshman Mechanics. Either semester for co-operative students. Four credits. (Eight co-operative hours.)

An elementary course in statics including the study of forces in equilibrium, frictional forces, work, power and energy, and the elements of hydrostatics. No student is permitted to enter this course unless he has had, or is taking, freshman mathematics, and no one failing in the first semester of mathematics will be allowed to continue this course. Two recitations and two two-hour laboratory periods weekly.

MR. HOUSEHOLDER

- 52. Freshman Mechanics. Second semester. Five credits. An intensive review of the principles of equilibrium and their application to problems involving simple trusses and hoisting devices and the study of friction, work, energy, power, and related topics. Prerequisite, Physics 51 and Trigonometry. Three recitations and two two-hour laboratory periods per week.

  MR. FOUTS
- 53-54. Sophomore Mechanics. Six credits each semester. A continuation of Physics 51 covering translatory and rotatory motion with the effect of forces and torques in producing them, moment of inertia, elasticity, vibratory motion. Kinematics, kinetics, moment of inertia, elasticity, simple harmonic motion, sound, magnetism and electricity. Students must have completed Physics 52 and have had or be taking the calculus. Four recitations and two two-hour laboratory periods per week.

  MR. ROLLEFSON
- 55. Heat. First semester. Five credits.

  The fundamental concepts of the theory of heat and its measurements, with special emphasis on their applications in engineering. Three recitations and two two-hour laboratory periods per week. Prerequisites, Physics 53.

  MR. FOUTS
- 56. Wave Motion, Light, and Sound. Second semester. Five credits.

An elementary course in wave motion and its applications to the study of sound and light. Particular emphasis is put upon the engineering phase of the subject. Prerequisite, Physics 54. Three recitations and four hours' laboratory work per week.

MR. HOUSEHOLDER

### **SPEECH**

91-92. Public Speaking. Two credits each semester.

A course in practical public speaking, including some textbook study, some written work, and considerable impromptu and extempore speaking.

MR. HAYWORTH

### COMMERCE

### **BUSINESS ADMINISTRATION**

The Department of Commerce offers professional training to young men and women who plan to enter the fields of industry, trade, or transportation. The course in Business Administration aims to develop and apply those general fundamentals of economics and administration which are common to all businesses. The University of Akron, being situated in a great industrial and trade area, is particularly qualified to offer training in the fields of accounting, finance, management, marketing, advertising, and merchandising. By means of inspection trips, field problems, and lectures on business, the student is kept in touch with the actual developments in these various departments of commerce.

Completion of the Business Administration course requires four years of academic work and eighteen weeks, or the equivalent, of supervised employment. During his course of training the student will spend nine weeks in industrial work and a second period of nine weeks, following the junior year, in the field of the student's specialty. For example, those choosing accounting for a major will be employed at accounting work. During each of these work periods the student will be guided and instructed by his instructors and at the conclusion of each period he will submit reports covering his experiences. Students may select their own employment in so far as it meets the approval of the department staff. All earnings from the work will, of course, go to the student.

### GRADUATION AND DEGREE

Candidates for graduation must present 128 credit hours with the required number of quality points. All students are also required to submit two experience reports, covering their business employment, and a senior thesis upon some specially assigned subject or business problem which will be developed in the seminar course which each senior takes in the field of his major interest.

The degree of Bachelor of Science in Business Administration will be granted to those students who satisfactorily complete the prescribed course in Business Administration.

The following requirements are outlined by years for the student's convenience:

FRESHMAI	N YEAR*
Froign Language 3  Rhetoric A. 1 3  Accounting C. 21 3  Plant Trips 1 1	Second Semester   Cr. Hrs
SOPHOMOI	RE YEAR
First Semester Cr. Hrs.  Chemistry, Physics, or Biology 4 Economics A. 1 3 Accounting C. 23 3 Business Administration C. 61 3 Military Training 1 Physical Training 1  *Accounting majors should take Accounting this point.	Second Semester Cr. Hrs Chemistry, Physics, or Biology 4 Economics A. 2 3 *Money and Banking A. 10 3 Economic Geography C. 14 3 Mathematics of Finance A. 58 3 Military Training 1 Physical Training 1 ng 32 instead of Money and Banking a
JUNIOR	YEAR
First Semester Cr. Hrs.  Marketing C. 81 3  English Literature 3  Statistics C. 57 4  Business Law C. 41 2  Business Finance C. 73 3	Second Semester   Cr. Hrs   Principles of Advertising C. 92   3   Business Correspondence   3   Literature   3   Business Law C. 42   2   Electives   6
SENIOR	
First Semester Cr. Hrs. Problems in Business Policy C. 68 3 Electives13	Second Semester Cr. Hrs Government and Business A. 20
If Modern Language is elected, it must be the eight hours listed, six additional hours	taken in both semesters. In addition to of the same language must be taken to

the eight hours listed, six additional hours of the same language must be taken to secure credit toward graduation.

Electives consist of three classes: Electives in the Major, Commerce Electives, and General Electives. Electives in the Major, amounting to 14 credit hours, including Seminar, are to be elected by the student from one of the various Majors. Commerce electives, amounting to 6 credit hours, may be selected from any of the major fields or any advanced course given within the department. General electives, amounting to 10 credit hours, may be elected by the students in any department within the University, provided such electives would be acceptable in the Liberal Arts College toward a degree.

### OPTIONAL MAJORS IN COMMERCE

In order to enable students to elect advanced and intensive courses in one of the major fields of Commerce, several Optional Majors in Commerce have been\_outlined.

These majors are planned to give the students working knowledge in some special branch for which there exists a demand for men with intensive and professionalized training. It is not the aim of the University to finish students in these lines of endeavor, but rather to prepare them with a wide general and thorough knowledge of these fields upon which they can surmount actual experience and further study at first-hand in the school of actual business.

Five fields of specialization are available to the students in Commerce, namely, Accounting, Finance, General Business, Industrial Management, and Marketing and Advertising. At the beginning of the Junior year, after each student has two years' work mainly in the cultural, factual, and elementary business administration courses, he will be requested to elect a field of specialization. The election of a major at the commencement of the Junior year enables the student to direct his energies more effectively during that year and to begin intensive work in his chosen field.

The courses required for or accreditable toward each major are outlined. Each student will select 14 hours of credit, including two credit hours for Seminar, from one of the listed majors:

ACCO	DUNTING MAJOR	
Courses Accounting 31 and 32 Cost Accounting 33 Advanced Cost Accounting 34 Auditing 35-36 Income Tax 40 Accounting Seminar 122	Credit Hours	Prerequisites Accounting 21 and 22 Accounting 21 and 22 Cost Accounting 33 Accounting 31 and 32 Auditing 35
	NANCE MAJOR	
Courses Security Market 74 Investments A. 6 Public Finance 76 Insurance Banking Practice Problems in Finance 78	Credit Hours 3 3 3 3 3 3 2 2	Prerequisites Economics 2 A. 10 and C. 73 C. 73 Economics 2 A. 10 A. 10 and C. 73
Finance Seminar 172	_	CMATOR
ADVERTISING	AND MARKETIN	•
Courses Sales Administration 86 Salesmanship 83e Retailing 88e Marketing 81 Advertising Campaigns 94 Consumers Demand 85 Commercial Art A. 14-15 Marketing Seminar 182	Credit Hours 3 2 3 3 3 3 4 2	Prerequisites C. 81 Sophomore C. 81 Economics 2 C. 92 C. 81
	AGEMENT MAJOR	1
Courses Cost Accounting 33 Purchasing 95e Production Methods I. E. 3 Personnel Management 64 Industrial Management Problems I. Management Seminar 162	Credit Hours 3 2 3 3 5 . E. 5 3 2	Prerequisites 9 hours Accounting C. 61 C. 61 C. 61 Production Methods
GENERA	L BUSINESS MAJ	OR
Courses Cost Accounting 33 Purchasing 95e Problems in Finance 78 Advanced Statistics 58 Sales Administration 86 Personnel Management 64 Transportation 53 General Business Seminar 141	Credit Hours 3 2 3 3 3 3 2	Prerequisites 9 hours Accounting Economics 2 C. 73 C. 57 C. 81 C. 61 Economics 2

### **COMMERCE**

Professor Leigh, Assistant Professors Anthony and McKee, Mr. Van Metre, Mr. Tinklepaugh, Mr. Park

SPECIAL LECTURERS: E. J. Thomas, Assistant Factory Manager, Goodyear Tire & Rubber Co.; R. R. Gross, Works Manager, Firestone Tire & Rubber Co.; H. H. Hollinger, Comptroller, Firestone Tire & Rubber Co.; S. B. Kramer, Production Control Department, Goodyear Tire & Rubber Co.; C. F. Marshall, Purchasing Agent, The Seiberling Tire & Rubber Co.; J. P. Woodlock, Specialized Sales Department, The B. F. Goodrich Company.

1. PLANT TRIPS. First semester. One credit.

In order to give entering Commerce students a familiarity with organization and operation of trade and industry, a series of visitations is made to representative industries. Outline studies are made and special reports prepared.

- 3. INDUSTRIAL STUDIES. Summer. No credit. All students during the summer following the freshman or sophomore years will work nine weeks in industry. In order to be guided and directed during this practice period, they will submit special investigations and an experience report covering the outlines which will be given.
- 4. JUNIOR INDUSTRIAL STUDIES. Summer. No credit. During the summer following the junior year, all Business Administration students will be required to secure employment for a period of at least nine weeks in the field of their major interest. Special investigations and an experience report will be required.
- 12. Economic History of the United States. Either semester. Three credits.

A short study is made of those features in England which have influenced the industrial life in the United States. Exploration and settlement, land policies, population growth, growth of commerce, crises, industrial combination, development of banking institutions and railroad systems, tariff, labor unions, and government regulation. Required of all Commerce students.

MR. ANTHONY

14. Economic Geography. Second semester. Three credits. This introductory course develops a conception of environmental elements such as climate, land forms, soils, mineral resources, and vegetation, and shows their influence upon economic activity. It analyzes physical factors which constitute the basis of trade, population movements, and international strife. Required of all Commerce students.

MR. VAN METRE

21-22de. Accounting. Three credits each semester. The details of business records. Recording of important transactions such as the acquisition of assets and their depreciation, incurring of expenses, and making purchases and sales, are considered. The balance sheet and statement of profit and loss, their construction, and use. Required of all Commerce sophomores.

MR. MCKEE, AND OTHERS

23de. Managerial Accounting. First semester. Three credits. This course summarizes, develops and analyzes accounting procedure. Financial statements are studied intensively. The general purpose is to develop a concise working knowledge of more advanced accounting used by production, sales and administrative executives in determining administrative, credit, and expansion policies. Prerequisite, Accounting 31.

28. Accounting. First semester. Six co-operative credits. This course, for advanced engineering students, covers the forms used by a foreman or a superintendent in a factory and enables the engineer to interpret such forms as profit and loss statements, balance sheets, production statements and store records.

MR. MCKEE, AND OTHERS

31-32de. ACCOUNTING. Three credits each semester. This is a continuation of 21-22 which is a prerequisite. In addition to the text, graded problems are used to illustrate the balance sheet and the profit and loss statement, analysis of profits, application of funds, capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc.

MR. MCKEE

33de. Cost Accounting. First semester. Three credits. Designed to give an insight into general methods of collecting costs of materials, labor, and burden of incorporating them into the books of account; various methods of distributing burden costs and methods of cost control. Prerequisite, 32.

MR. MCKEE

34e. Advanced Cost Accounting. Second semester. Two credits. An intensive course in cost accounting. The student is led into the particular processes of cost technique and detail. Investigations and surveys are made, particular industries and the systems are designed and cost rates and budgets are adapted to these industries. Given in alternate years. Prerequisite, 33.

MR. MCKEE

35de. AUDITING. First semester. Three credits. Elementary problems of auditing, the preparation of accounts, the examination of the books of account, the nature of audits, and the general method of procedure. A complete audit is undertaken step by step and a report is constructed. Prerequisite, 32. MR. MCKEE

36e. Advanced Auditing. Second semester. Three credits. Investigations are made of special branches of industry such as banks, municipalities and public utilities. The specific details of audits are elaborated with a view of fully equipping the student with the modern methods of audit procedure and analysis. Given alternate years. Prerequisite, 35.

MR. MCKEE

37-38e. Accounting Problems. Three credits each semester. Designed for students who intend to enter the accounting profession. Problems cover such topics as partnerships, corporations, executors, trustees, consolidated statements, capital requirements and actuarial science. Open to seniors and to others with the consent of the instructor. Prerequisite, 31-32.

MR. MCKEE

- 39. Accounting Systems. First semester. Three credits. Accounting problems of wholesalers, automobile companies, industries, clubs, etc. Actual accounting systems are devised. The course is designed for accounting majors and presupposes a thorough background in accounting.

  MR. MCKEE
- 40. Income Tax. Second semester. Three credits. This course acquaints the student with the history, laws, and administration of the Income Tax regulations and decisions. The law is applied to specific problems and income tax returns are made and filed.

  MR. MCKEE
- 122. Accounting Seminar. Second semester. Maximum two credits.

Required of all students qualifying for degrees with a major in accounting. Each student makes a thorough study of some problem approved by the faculty. Credit is dependent upon the quality of work done.

41-42de. Business Law. Two credits each semester. The origin of commercial law, the operation and discharge of contracts, the law of sales, agency, and negotiable instruments, partnerships and corporations are studied, giving attention to the statutes which form the working machinery for economic activity. Open to Commerce sophomores and to others with the consent of the instructor.

MR. PARK

- 53. Transportation. First semester. Three credits. The American transportation system from the points of view of the economist, the shipping public, and the transportation administrator. The part played by transportation in the production, exchange and distribution of wealth, service, rate making, valuation, and federal regulation. Prerequisite, Principles of Economics. Given in 1932-33 and alternate years.

  MR. VAN METRE
- 55. RISK BEARING AND INSURANCE. Second semester. Three credits. The risks in our economic order, and the methods, devices, and institutions which deal with them. Special attention to the risk bearing activities of such institutions as speculative exchanges and insurance companies. Insurance is emphasized. Prerequisite, Principles of Economics. Given in 1931-32 and alternate years.
- 57. STATISTICS. First semester. Four credits. The student is taught to apply the scientific method to business and social problems. Emphasis is on the use of surveys, accounting, analyses, group tests, and statistical data. Prerequisite, Principles of Economics. Given in 1931-32 and alternate years. MR. VAN METRE
- 58. ADVANCED STATISTICS. Second semester. Three credit hours. A brief summary of the work covered in 57 is followed by advanced work on index numbers of prices and physical volume, measure-

ment of trend, linear, multiple and partial correlation, analysis of time series, and probabilities and normal error. Each student works on a special statistical problem. Given in 1931-32 and alternate years.

MR. VAN METRE

141. GENERAL BUSINESS SEMINAR. Second semester. Maximum, two credits.

This course is required of all students qualifying for degrees with a major in General Business. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

61de. Business Administration. First semester. Three credits. A survey course in which the business establishment is considered as a unified concern composed of various departments such as finance, production, distribution, and accounting. The managerial viewpoint is taken throughout. Class work is supplemented by problems and trips. Required of all Commerce sophomores. MR. LEIGH

62de. Business Management. Second semester. Three credits. The problems of management in delegating authority and coordinating activities, standardization, determination of administrative, sales, production, personnel and financial policies, and administrative control and executive leadership. Problems and case studies. Prerequisite, 61.

MR. LEIGH

- 64. Personnel Management. Second semester. Three credits. This course covers job analysis, selection and maintenance of a labor supply, placement and promotion, elimination of risks, co-operation between employers and employees, and employee participations in ownership or management. Prerequisite, 61. Given in 1931-32 and alternate years.
- 68. Problems in Business Policy. Second semester. Three credits. A problem course in management policies, dealing with organization, plant expansion, labor, control and distribution policies. The problems are drawn from real business situations and are aimed to make the student exercise initiative and resourcefulness. Required of all Commerce seniors.
- 162. Management Seminar. Second semester. Maximum two credits.

Required of all students qualifying for degrees with a major in management. Each student makes a thorough study of some problem meeting the approval of the faculty. Credit is dependent upon the quality of the work done.

72. THE FEDERAL RESERVE SYSTEM AND MONEY POLICIES. Second semester. Three credits.

A comprehensive study of the Federal Reserve system, the discount policy, the need and working of a centralized banking system, and methods of stabilizing credit during the fluctuations of the business cycle. Prerequisite, Money and Banking A.10.

MR. VAN METRE

73de. Business Finance. First semester. Three credits.

A basic and comprehensive course in finance. The financial structure and operation, the uses and sources of funds, the relation of the business executive to his bank, and the safeguarding of credit are studied. The financial needs and operation of both large and small businesses are equally stressed. Prerequisite, Money and Banking A.10.

MR. VAN METRE

- 74. Security Markets. Second semester. Three credits. Markets and their influence on the price of securities, elements of security appraisal and methods of computing net earnings, amortization, rights and conversions, will be studied. Various forms of securities will be considered. Prerequisite, Business Finance 73. Given in 1931-32 and alternate years.

  MR. VAN METRE
- 76. Public Finance. Second semester. Three credits. Principles that should guide the city, state, or nation in raising and expending revenue. Sources of revenue, principles of taxation, governmental securities, fields of expenditure, and control of expenditures, are examined. Prerequisite, Principles of Economics and one course in Finance. Given in 1930-31 and alternate years.

MR. VAN METRE

- 78. Problems in Finance. Second semester. Three credits. Corporate organization in modern business, legal organization, instruments of finance, promotion, underwriting, capitalization, earning, expenses, surplus, manipulation, insolvency, receivership, reorganization and regulation. Working capital problems and control will be emphasized. Prerequisite, 73. Given in 1930-31 and alternate years.

  MR. VAN METRE
- 172. FINANCE SEMINAR. Second semester. Maximum, two credits. Required of all students qualifying for degrees with a major in Finance. Each student is required to make a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.
- 81. Marketing. First semester. Three credits. Functions of marketing, middlemen and their place in the market structure, retail types and policies, consumer and producer cooperation, market finance, associative activities, cost of marketing, prices and price factors. Open to juniors and pre-juniors. Prerequisite, Economics A.1-2.

  MR. LEIGH

- 83e. Salesmanship. Two credits each semester. The economics of selling. The selling price, the preparation of sales talks, and planes. Laboratory practice in the analysis of sales need and the presentation of sales talks.
- 85. Consumer Demand. Second semester. Three credits. Principles underlying consumption as an aid toward marketing and advertising. What demand is, how elastic it is, how it can be modified or guided, the economics of style and fashion, the effect of consumer's income and credit, and the measuring of demand. Prerequisite, Economics A.1-2. Given in 1931-32 and alternate years.

  MR. LEIGH
- 86. Sales Administration. Second semester. Three credits. Problems of marketing from the administrative standpoint. Problems of product and market analysis, demand creation, distribution, salesmen, sales campaigns, statistics, and summaries for managerial control. Prerequisite, 81.

  MR. LEIGH
- 88e. Retailing. Second semester. Two credits. A study of the development, types, and significance of the various retail institutions. The best practices of merchandising, display, and retail selling as well as the co-ordination of consumer needs and retail buying are considered.
- 89. Problems in Sales Policies. Second semester. Three credits. An advanced course covering the selection, training, compensation, management, and control of the sales force, and co-operation of the house, the salesmen, the advertising department, and the dealers. Methods of correlating the sales and production departments and of analyzing the market are given particular attention. Prerequisite, 86.

  MR. LEIGH
- 92. Principles of Advertising. Second semester. Three credits. The problems and scope of advertising and its place in business, human aspects of the market, appeals, presentation of appeals, media, and special fields of advertising. Class work is supplemented by special problems. Open to pre-juniors and juniors.

  MR. LEIGH
- 94. Advertising Campaign. Second semester. Three credits. The principles established in the elementary course are more intensively treated and the student works out an advertising plan, completes layouts and copy, and launches a campaign for a particular product. Proper media are selected, the campaign scheduled, and promotional activities drawn up. Prerequisite, 92.
- 95e. Purchasing. First semester. Two credits. Fundamentals of purchasing. Organization of the purchasing department and the systematization of the purchasing routine; the

determination of material need; providing the adequate sources of supply; the procurement of the right price and the relation of purchasing to stores.

182. Advertising and Marketing Seminar. Second semester. Maximum, two credits.

Required of all students qualifying for degrees with a major in Advertising and Marketing. Each student makes a thorough study of some problem in this field. The topic must meet the approval of the faculty. Credit is dependent upon the quality of the work done.

### GENERAL COURSES FOR COMMERCE STUDENTS

Commerce students are required to take Economics 1-2, Money and Banking A.10, and the courses in Political Science listed hereafter. Additional courses in Economics may be elected from those described.

The letter A prefixed to a course number indicates that the course is given in the College of Liberal Arts. The letter T refers to the Teachers College.

### ART

### MISS CABLE

T.14-15. Commercial Art. Two credits each semester. Principles of advertising in connection with page arrangement, magazine, newspaper, and poster layout. Standard forms of lettering and adaptation of material to reproducing processes.

### **ECONOMICS**

### Professor Davis

A.1-2. Economics. Three credits each semester. This course is the foundation for all other courses in Commerce. It considers production, consumption and distribution of wealth; labor problems; money and banking, international trade and exchange; economic crises; transportation; agricultural problems; social programs; public receipts and expenditures. Required of all Commerce students.

A.3-4. Foreign Trade and Foreign Exchange. Three credits each semester.

Recent tendencies in the foreign trade of the United States, principles of comparative cost, balance of trade, ocean shipping, handling and financing trade, bills of exchange, import and export credits, gold movements and the influence of investment and speculation, international creditor and debtor aspects, and governmental interference. Prerequisite, 6 hours of Economics.

A.10. Money and Banking. Second semester. Three credits. The principles and functions of money, credit and banking, credit instruments, credit and banking institutions, with especial attention to the Federal Reserve System. Prerequisite, 3 hours of Economics.

A.6. Investment. Second semester. Three credits. The nature, principles, classification and technique of investment; real estate loans; national, state and municipal bonds; investment analysis; railroad, public utility, industrial and financial institution securities. Prerequisite, 6 hours of Economics.

### **MATHEMATICS**

### MRS. LEIGH

58. MATHEMATICS OF FINANCE. First semester. Three credits. A study of simple and compound interest, annuities, depreciation, amortization, bond valuation, building and loan associations, the elements of the mathematics of life insurance. For Commerce students. Prerequisite, College Algebra A.1.

### POLITICAL SCIENCE

### PROFESSOR CRECRAFT

- A.3. Problems of Citizenship. Either semester. Three credits. This is a survey of a group of selected problems of citizenship with equal emphasis placed respectively upon social, economic, and political problems. It is an introductory course to the social and political sciences, based on text books, readings, and discussions.
- A.2. AMERICAN GOVERNMENT. Either semester. Three credits. This course gives the student an introductory survey of the basic principles, the practical administration, and the interstate relations of the American Government.
- A.20. Government and Business. Second semester. Three credits. This course is intended to acquaint students with the relation of government to business. Necessity for regulation, methods of control, regulating bodies, government ownership, competition, control of corporations, trusts and labor organizations, government promotion, public activities of business organizations, a national business policy, and activities of governmental agencies and departments. Open to juniors.

### SECRETARIAL SCIENCE

Two courses of study are offered in Secretarial Science, a fouryear course (128 semester hours) leading to the degree B.S. in Secretarial Science, and a two-year course (64 semester hours) for

the completion of which a certificate is granted.

The four-year curriculum is designed for those who wish to prepare themselves for the higher grade secretarial and office positions without spending more than four years beyond the high school in preparation. In recognition of the fact that a broad background is invaluable in the upper levels of business, one-half the course is required in academic subjects which provide an introduction to the most important fields of human knowledge and furnish the student with the most essential elements of a standard college education. The required technical subjects provide the needed gateway into the business world, so that at graduation the student is prepared to enter his chosen field. The elective subjects which complete the course may be adapted to the needs of each individual, but must be chosen so that, in addition to the required major in Secretarial Science, there will be a minor of at least eighteen hours, including Freshman courses, in one field or in two related fields.

The two-year curriculum is designed for those with a capacity for something higher than mere routine stenographic or clerical work, but who prefer not to spend more than two years on the college level in preparation. Technical subjects naturally constitute a larger pro-

portionate part of this curriculum than of the four-year.

Those who have had shorthand and typewriting before entrance will begin these courses in college at such point as their degree of proficiency permits, and approved electives, preferably academic subjects, will be taken in place of the shorthand and typewriting omitted in the college course.

Credit for college work in either shorthand or typewriting is in-

dicated by the following table:

High School credits	in college	Credit given
1 year	Second semester First semester	{ Full credit } No credit
2 years	<ul> <li>Second year</li> <li>First year</li> </ul>	{ Full credit } No credit

Men enrolled in the four-year course must meet the requirements

of the Reserve Officers Training Corps.

Those who enter with advanced standing may be excused from Problems of Citizenship or Human Biology, for which more advanced courses will be substituted.

It is recommended that practical experience be secured during the summer vacations if possible. The Bureau of Student Employment is frequently able to place students in suitable positions. During the college year a limited number of student assistantships are available in the administrative offices of the University. Those who do part-time work should lighten their schedules accordingly.

Men who enter with advanced standing may, with the consent of the dean, be excused from Secretarial Duties and from the advanced

course in Shorthand and Typewriting.

The academic subjects listed below are described in the Buchtel College section of the general catalog and in the Buchtel College Bulletin, listed alphabetically by departments. The letter "C" indicates a course in Commerce; the letter "S" Secretarial Science. Sixteen semester hours (recitation hours per week) constitute the normal load.

# OUTLINE OF TWO YEAR CERTIFICATE COURSE

OUTLINE OF TWO-YEAR	R CERTIFICATE COURSE
FIRST	YEAR
First Semester   Cr. Hrs.	Second Semester         Cr. Hrs           Rhetoric (English 2)         3           Secretarial Duties S. 2         3           Human Biology         4           Physical Training         1           Shorthand S. 22         3           Typewriting S. 32         2
SECONI	YEAR
First Semester   Cr. Hrs.	Second Semester   Cr. Hrs
OUTLINE OF FOUR-YE	EAR DEGREE COURSE
GENERAL REG	DUIREMENTS
ACADEMIC   Cr. Hrs.	NON-ACADEMIC
Minimum Academic64	64
SUGGESTIVE OUT FIRST	
First Semester	Second Semester   Cr. Hrs

SEC	COND	YEAR	
First Semester Cr. 1		Second Semester Cr. 1	Hrs.
Shorthand S. 21 3	5	Shorthand S. 22	3
Typewriting S. 31		Typewriting S. 32	2
Economics 1	3	Economics 2	3
Laboratory Science	\$	Laboratory Science	4
Electives4	1	Electives	ā
TH	IRD '	YEAR	•
First Semester Cr. 1	Hrs.	Second Semester Cr. 1	Hre.
Shorthand S. 23	3	Shorthand S. 24	3
Typewriting S. 33	2	Typewriting S. 34	ź
Accounting C. 21		Accounting C. 22	1
History		History	
Sociology or Psychology 3	í	Sociology or Psychology	2
Electives	í	Electives	3
	DTI	VEAR	9
	RTH	- 20111	
First Semester Cr. I		Second Semester Cr. 1	Hrs.
Business Correspondence S. 13 3	}	Shorthand S. 26	3
Business Law C. 41 2	<b>!</b>	Typewriting S. 361	l .
Literature 3	3	Office Management S. 10	1
Political Science 3	1	Business Law C. 42	ź
Electives		Literature	ž
		Electives	í
			•

### SECRETARIAL SCIENCE

### Mr. Doutt, Miss Flint, Miss Tenney

- 1. Secretarial Duties. First semester. Three credits.
- This fundamental course, required of all freshmen in Secretarial Science, acquaints the student with the origin, nature, and scope of secretarial work, and the duties performed in a modern office; the handling and answering of mail; securing of information; preparation of itineraries, budgets, speeches, reports, and documents; proofreading; and the writing of minutes.

  MISS TENNEY
- 2. Secretarial Duties. Second semester. Three credits.

  Instruction is given in all of the major filing systems and in the use of the chief types of office machines.

  MISS TENNEY
- 3e. Secretarial Duties. First semester. Three credits.
- 6. OFFICE ORGANIZATION. Second semester. Three credits. An analysis of the modern business office and its historical development, including such matters as the functions of the office; disposition of space; light, heat, and ventilation; furniture, equipment, and mechanical devices in the office; departmental organization; and various types of records. Open to all upper classmen.
- 10. Office Management. Second semester. Three credits. Problems of the modern business office from the managerial viewpoint, including office planning, departmental organization, personnel, standardization of tasks. For juniors and seniors only. MR. DOUTT
- 11e. Business English. Either semester. Two credits.
- 13de. Business Correspondence. First semester. Three credits. In applying the principles of English composition to business letter writing, both theory and practice are emphasized. Such business correspondence as sales letters, collection letters, applications for positions, adjustment letters, and business reports are written, examined, and criticized. Prerequisite, Rhetoric 1-2.

  MR. DOUTT

21de. SHORTHAND. First semester. Three credits.

This course is designed to give beginners in the Gregg system a thorough introduction to shorthand theory.

MISS FLINT

22de. Shorthand. Second semester. Three credits.

The second semester completes Gregg theory and begins practice in dictation. While no attempt is made to secure speed, emphasis being on accuracy and development of vocabulary, at the end of the year the student should be able to take a wide variety of dictation at a moderate rate and to read notes accurately. Prerequisite, 21.

MISS FLINT

23-24de. Shorthand. Three credits each semester.

Dictation practice begins with simple letters and articles, and proceeds gradually through a wide variety of increasingly difficult material, designed to develop speed, to convey a broad understanding of business terminology, and to provide contact with the best forms of English expression. Prerequisite, Shorthand 22 or equivalent.

MISS FLINT

26de. Shorthand. Second semester. Three credits. The vocabulary is further extended by practice in reporting shortcuts, court reporting phrases, and technical words. Shorthand plates are read and practiced. Congressional records, testimony, and jury charges are used for dictation. The development of speed is stressed. Prerequisite, Shorthand 24.

MISS FLINT

31-32de. Typewriting. Two credits each semester.

Thorough instruction in the touch system of typewriting and the care and use of the machine; drawing up various business forms; drills in spelling, capitalization, and punctuation; use of carbon paper; simple tabulations; etc.

MISS TENNEY

33-34. Typewriting. Two credits each semester.

The transcription of letters, articles, speeches, and reports is followed by the taking of dictation directly on the machine. Practice in legal work, difficult tabulations, and preparation of stencils. Methods of arranging letters, reports, manuscripts, and various documents. Prerequisite, 32.

MISS FLINT

36. Typewriting. Second semester. One credit.

The rapid transcription of articles, reports, and testimony is stressed. Various secretarial projects are given, such as writing original letters, sending telegrams, and making appointment schedules. Prerequisite, 34.

MISS FLINT

39. TYPEWRITING. Either semester. Two credits.

While this course is of the same grade as S31, it has been especially planned to present the essentials of touch typewriting to those who can devote only one semester to the subject. The preparation of business reports is emphasized. Open to Engineering and Commerce students with credit and to all other students without credit.

MISS FLINT, MISS TENNEY

### PHYSICAL AND MILITARY TRAINING

### PHYSICAL EDUCATION

Professor Fred S. Sefton, *Director*; Assistant Professors Blair and Smith, Mr. Lipps, Miss Dunckley, Dr. Robart, Miss Washburn.

#### AIMS

Physical education is conducted under the direct supervision of experienced physical directors, who are members of the University faculty. The aims of the department are to develop organic power, the basis of vitality, the prerequisite to physical and mental efficiency, and 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 to all students entering the University. Physical defects, abnormalities, and weaknesses are noted, and healthful exercise is prescribed to fit each student's needs; this may include athletic sports or remedial gym-

nastics.

During the fall and spring months there are outdoor exercises and games at Buchtel Field. During the winter months the time is devoted to boxing, wrestling, basketball, apparatus work, wand, dumbbell and swinging club drills.

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.

### TRAINING COURSE

A course for training teachers in physical education and for preparation for coaching is given in conjunction with Teachers College. For details see statement under Teachers College section in the General Catalog or Bulletin of Teachers College.

### **EQUIPMENT**

The gymnasium is 100 feet long and 50 feet wide. On the ground floor are locker 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 is 80 feet by 50 feet and is equipped with modern gymnastic apparatus.

A six-acre athletic field is provided for the use of the students, and all intercollegiate and other contests are held there. The field is equipped with a grandstand which accommodates 8,000 spectators, dressing rooms, cinder running track, baseball diamond, football

field, and tennis court.

### INTERCOLLEGIATE SPORTS

Intercollegiate sports are under the government of the Ohio Athletic Conference, and the faculty committee appointed by the president.

### INTRAMURAL SPORTS

All students may participate in intramural athletics. The sports are conducted for everyone with the aim of providing good wholesome recreation and physical exercise. To attain this end the department makes an effort to have each student in the University enroll in one or more of the scheduled activities.

### ATHLETIC INJURIES

Students training for, or participating in, athletic competition, do so voluntarily and assume the risks incident thereto. The University assumes no legal responsibility or obligation to meet the expense of caring for injuries sustained by students in athletic training or competition.

The policy of the University is to pay, within reasonable limitations determined by it, the expense of the treatment of injuries received by athletes while training for, or participating in, intercollegiate sports, provided the treatment is first authorized by the University medical officer for athletes.

### PHYSICAL TRAINING FOR MEN

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.

### PHYSICAL TRAINING FOR WOMEN

All freshman women are required to take two hours of physical training each week.

### GYMNASIUM LOCKERS AND UNIFORMS

Gymnasium lockers are obtained by depositing \$1.00 at the office of the Secretary of the University. The receipt therefor is presented to the Assistant in Physical Training (men) and the Director of Physical Education for Women (women) in the gymnasium for locker assignment.

The University Bookstore will carry a stock of uniforms required for gymnasium classes.

### THE UNIVERSITY HEALTH SERVICE

To provide for the student body necessary phases of health promotion not included in the field of physical education, the Student's Health Service has been established.

The activities of the Health Service are along the lines of personal attention, sanitation, and education. The personal attention phase of the Health Service work includes annual physical examinations of all freshman and sophomore students. Complete physical records and a follow-up system are maintained. The medical examinations conducted by the Health Service and the posture and physical efficiency tests, conducted by the Department of Physical Education are combined. The particular findings of each are of value to both.

The University Physician is in his office at the gymnasium one hour and a half each day, from 11:00 to 12:30.

### MILITARY SCIENCE AND TACTICS RESERVE OFFICERS' TRAINING CORPS

MAJOR ORAL E. CLARK, INFANTRY (D. O. L.), Professor; CAPTAIN LEWIS S. NORMAN, INFANTRY (D. O. L.), Assistant Professor; CAPTAIN ROBERT E. SWAB, INFANTRY (D. O. L.), Assistant Professor; MASTER SERGEANT HENRY METZGER, U. S. A. (RETIRED),

Instructor; SERGEANT STEVE KISH, DETACHED ENLISTED MEN'S LIST, U. S. A., Instructor.\*

In 1919 the U. S. Government established at the University of Akron a unit of the Reserve Officers' Training Corps. This unit is of the same sort as those established at practically all of the large universities and colleges throughout the country 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 (three years for co-operative students), elective for the men who have completed satisfactorily the basic course and the first two years of scholastic work for Engineering and Commerce students.

### BASIC COURSE

The basic course in R. O. T. C. is required of all men during the freshman and sophomore years with the following exceptions:

- a. Aliens.
- b. Men physically disqualified.
- c. Men who have been in the military or naval service more than one year.
- d. Men who are taking short professional or pre-professional courses not leading to degrees.
  - e. Men carrying less than 8 hours of work.
- f. Men who have attended another college 2 years, or who present credit for 48 hours of college work.

<sup>\*</sup>Retired March 31, 1931.

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

During this basic course no compensation is paid the student by the government, but uniforms (except shoes) and equipment are issued for his use. Each student is held responsible for loss or damage to government property issued to him. Each student is required to provide one pair of russet shoes, of approved military pattern, for use with the uniform. Uniforms must be turned in at the completion of each year, or at the 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.

### FRESHMAN YEAR

Subject	Theoretical Hours	Practical Hours
Military Courtesy		3
Drill and Command		34
Rifle Marksmanship		10
Scouting and Patrolling		9
Military Hygiene	D	
Total hours per school year	41	5596

### SOPHOMORE YEAR

Subject	Theoretical Hours	Practical Hours
Scouting and Patrolling	4	8
Automatic Rifle	4	8
Musketry	<del>4</del>	.6
Drill and Command		32
Combat Principles	2	8
Total hours per school year	34	6296

### ADVANCED COURSE

This course consists of five hours per week (three hours' credit per semester) during the junior and senior years (and pre-junior year for co-operative students). 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. A deposit of \$10 is required, which is returned to the student when he has United States pay credits sufficient to cover cost of his uniform and if he has completed the academic year. 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 \$9 per month. Attendance at one summer camp of not more than six weeks' duration is required; for this attendance, pay at the rate of \$0.70 a day is allowed. On the satisfactory completion of the advanced course, if twenty-one years of age, the student is commissioned in the Army of the United States as a second lieutenant, Infantry Reserve. Promotions thereafter are made in accordance with Army Regulations governing the Organized Reserve.

### JUNIOR YEAR

Subject Browning Machine Gun 37-m/m gun and Trench Mortar Combat Principles Drill and Command Military Sketching—Map Reading		Practical Hours 24 12 10 34 14
Total hours per school year	66	94— 160
SENIOR Y	EAR	
Subject	Theoretical Hours	Practical Hours
Military History Nat. Defense Act	20	
Administration	2	6
Combat Principles	18	37
Drill and Command	18	34
Field Engineering	10	
Military Law and O. R. Regulations	10	5
Total hours per school year	78	82 160

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 class room work with proper preparation of subjects for recitations, and practical work either indoors or out, putting into execution the lessons learned in the class room. The facilities of the basic as well as of 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

Attendance at one advanced R. O. T. C. camp, of six weeks' duration, is required of all members of the advanced course. This camp should normally be attended between the first and second years of the advanced course. This camp should normally be attended between the first and second years of the advanced course. Mileage at the rate of 5 cents per mile is allowed for the journey to and from the camp. Clothing, equipment, and subsistence are furnished at the camp.

In addition to the drills, target practice, maneuvers, etc., athletics, dances, and other social amusements play a part in the camp life.

MUSIC

85

### **MUSIC**

PROFESSOR FRANCESCO B. DELEONE, Director; Mr. WILLIAM E. STRASSNER,
MISS GENEVIEVE RIDER, ASSISTANT PROFESSOR ELMER ENDE,
MR. J. GARFIELD CHAPMAN, MR. FRANCIS J. SADLIER.

The work in music is open to election by members of all college classes. It includes a recitation course in the study of music, meeting twice a week through the year, and participation in Glee Club, Band, or Orchestra, three hours each week.

All students desiring to participate in the class room work in music, or in Orchestra, Band or Glee Club, must arrange for it on registration days as part of their regular assignment of work for the semester. Students who desire to take no studies except music must fulfill the regular requirements for college entrance. In no case shall the total credit for music exceed fifteen semester hours toward graduation in the Liberal Arts College.

### COURSES OFFERED

For courses in music offered in the Teachers College see the Teachers College Bulletin or the Teachers College section of the General Catalog. For students not taking those courses, the following is offered:

### THEORY

THE STUDY OF MUSIC. Two credits each semester.

This course is carried on as class room work and is chosen from the following subjects: rudiments, theory of music and elementary harmony, thorough bass, ear training, first year history of music, biographical history of music, musical appreciation, study of operas, etc. Students are not allowed to enter the course in the middle of the year. (Discontinued after 1930-31.)

PROFESSOR DE LEONE

### GLEE CLUB, ORCHESTRA, BAND

MEN'S GLEE CLUB. One credit each semester.

Women's Glee Club. One credit each semester.

ORCHESTRA. One credit each semester.

BAND. One credit each semester.

MR. CHAPMAN

MR. STRASSNER

### PIXLEY SCHOLARSHIPS IN MUSIC

The University offers eighteen scholarships, each worth \$40 per semester for private lessons in piano, voice, violin and organ for students who are taking one or more courses in the Buchtel College of Liberal Arts. The scholarships are competitive and the selection is made by the music faculty. These scholarships offer a splendid opportunity to a restricted number of students to further their musical education at very low cost.

### PRIVATE LESSONS

Opportunity is also offered for private instruction in piano under Professor DeLeone, in violin under Mr. Chapman, and in voice under Mr. Strassner. Piano practice in a specially equipped building is offered to those who desire it. The fees for such instruction are:
Piano Practice, per semester\$ 5.00
Two private lessons per week, each semester, in Piano, Voice, Violin and Organ 60.00
Students who wish to take short courses of ten lessons each may do so by special arrangement with the Director of Music.

## **INDEX**

Absence and Tardiness	40	Honor Courses Honor Fraternities Human Engineering Hydraulics	37
Accounting67.	69	Honor Fraternities	36
Administrative Officers	4	Human Engineering	59
Absence and Tardiness Accounting 67, Administrative Officers Admission 22, 24, Advanced Standing Advertising Airplane Structures Art	43	Hydraulics	57
Advanced Standing	23		
Advertising	73 .	Industrial Engineering	58
Airolana Structuras	£1 .	Inspection Trips	62
Ant	74	Industrial Engineering Inspection Trips Insurance Irregular Students	70
AIL	/4	Insurance Children	24
		Tiregular Students	24
Biology	90	Tara D. Caratta D.	20
Board of Directors Business Administration Business Law	4	Late Registration Fee Living Conditions Loan Funds	30
Business Administration	65	Living Conditions	20
Business Law	70	Loan Funds	32
Calendar1, 46,	47	Machine Design	57
Chemistry	60	Majors in Commerce	66
Civil Engineering Commerce Commercial Art Committees of the Faculty	49	Machine DesignMajors in CommerceManagement	71
Commerce	65	Marketing63,	72
Commercial Art	74	Mathematics 63	75
Committees of the Escultu	17	Materials Laboratory	5ŏ
Comprehensive Framinations	37	Materials Laboratory Mechanical Drawing Mechanical Engineering Laboratory56, Mechanical Engineering Subjects	55
Comprehensive Examinations	3/	Machanical Praincering Laboratory 56	57
Concrete Laboratory	21	Mechanical Engineering Laboratory 30,	2/
Co-operative Calendar	46	Mechanical Engineering Subjects	34
Concrete Laboratory	60	Mechanics Mechanism Metallurgy Metallurgy Military Science and Tactics 43, Music 30,	94
		Mechanism	20
Degrees38, 40,	43	Metallurgy	60
Departments of Instruction19,	44	Military Science and Tactics43,	82
Design of Concrete Structures	51	Music30,	85
Degrees38, 40, Departments of Instruction19, Design of Concrete Structures Design of Steel Structures	51		
Directors	4	Orientation	60
		Outside Work	42
Economics 62	74		
Footomic Coography	20	Personnel Relations	50
Formmin Wistons of Visited States	60	Physical Education	80
Economic History of United States	98	Physical Education	60
Electrical Engineering	32	Dalisian Caiana	77
Employment26,	42	Political Science	13
Economics	48	Personnel Relations Physical Education Physics Political Science Production Methods Power Plants Prize Funds Probationary Students Psychology Tests Purchasing	29
Engineering Drawing	55	Power Plants	20
Engineering Design	52	Prize Funds	32
Engineering Subjects	48	Probationary Students	39
English	62	Psychology Tests	25
Entrance at Mid-Year	25	Purchasing	73
Entrance Requirements22.	43	-	
Equipment	21	Radio Communication	54
Entrance at Mid-Year Entrance Requirements	14	Radio Communication	50
Expense—First Vear Engineering	44	Refunds Registration and Classification Reinforced Concrete Reserve Officers' Training Corps Roofs and Bridges	31
		Registration and Classification	23
Faculty Failure Fees	•	Painforced Concrete	51
Pailure	20	Persona Officers' Training Corps	82
Failule	39	Deef and Deidese	50
rees	30	Roots and Bridges	30
rees and Expenses	2/		
Finance	72	Salesmanship	73
Foundation	18	Scholarships	32
Foundation	48	Salesmanship Scholarships Secretarial Science	78
Freshman Week	23	Self Help	26
		Sewerage	51
Gas and Oil Engines General Courses for Engineering General Courses for Commerce General Faculty and Officers General Information Commerce Engineering Secretarial Science University, affecting all colleges. 1 General Regulations Geology Grading System Graduation Requirements 38, 65,	56	SewerageShorthand	70
General Courses for Engineering	60	Special Students	24
General Courses for Commerce	74	Cooch	64
General Faculty and Officers	5	SpeechStandards	21
General Information	•		
Commerce	65	Statistics	/0
Facinosina	30	Steam Power Plants	20
Coaratarial Coionas	76	Statistics Steam Power Plants Strength of Materials Structural Design Surveying Summer Camps	50
Decretarial Science	70	Structural Design	50
University, anecting all colleges!	-38	Surveying	50
General Regulations	38	Summer Camps	84
Geology	51		
Grading System	38	Thermodynamics	57
Graduation Requirements38, 65,	76	Transportation	70
		Tuities 27 20	44
II lab. Ci-a	01	Thermodynamics Transportation Tuition 27, 28, Typewriting	44
Heating and Ventilation	57	Typewriting	19
Highways and Airports			
	51		
Historical Statement	51 18		42
Heating and Ventilation Highways and Airports Historical Statement Home Study Courses	51 18 60	Wages Water Supply	42 52

# THE UNIVERSITY OF AKRON AKRON, OHIO

### 1931 PUBLICATIONS

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